

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

November 23, 2020

Due to COVID-19, this meeting will be conducted as a teleconference pursuant to the provisions of the Governor's Executive Orders N-25-20 and N-29-20, which suspend certain requirements of the Ralph M. Brown Act. Members of the public may not attend this meeting in person.

Participation by members of the Board of Directors will be from remote locations. Public access and participation will only be available telephonically/electronically.

To virtually attend the meeting and to be able to view any presentations or additional materials provided at the meeting, please join online via Webex using the link and information below:

Via Web:

<https://irwd.my.webex.com/irwd.my/j.php?MTID=md0ca6d09ecf0d300d3663bdc2230300b>

Meeting Number (Access Code): 126 239 1952

Meeting Password: gwU5m3qJpF3 (49856375 from phones and video systems)

After joining the meeting, in order to ensure all persons can participate and observe the meeting, please select the "Call in" option and use a telephone to access the audio for the meeting by using the call-in information and attendee identification number provided.

As courtesy to the other participants, please mute your phone when you are not speaking.

PLEASE NOTE: Participants joining the meeting will be placed into the WebEx lobby when the Board enters closed session. Participants who remain in the "lobby" will automatically be returned to the open session of the Board once the closed session has concluded. Participants who join the meeting while the Board is in closed session will receive a notice that the meeting has been locked. They will be able to join the meeting once the closed session has concluded.

CALL TO ORDER 5:00 p.m.

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

PUBLIC COMMENT NOTICE

If you wish to address the Board of Directors on any item, please submit a request to speak via the "chat" feature available when joining the meeting virtually. Remarks are limited to three minutes per speaker on each subject. You may also submit a public comment in advance of the meeting by emailing comments@irwd.com before 12:00 p.m. on Monday, November 23, 2020.

ALL VOTES SHALL BE TAKEN BY A ROLL CALL VOTE.

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).

PRESENTATION

Next Resolution No. 2020-21

3. COMMENDATION OF MARY AILEEN MATHEIS

Recommendation: That the Board adopt a resolution commending President Matheis for her 32 years of service as a Board Member of the District.

Reso. No. 2020-21

PUBLIC HEARING

4. PRETREATMENT ORDINANCE FOR FACILITIES TRIBUTARY TO SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

Recommendation:

- a. 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 a report from the Director of Water Quality and Regulatory Compliance;
- f. Hear any person who wishes to speak concerning the amended ordinance;
- g. Inquire whether there are any comments or questions from the Board;
- h. Close the hearing;
- i. Read the ordinance by title only and that further reading be waived; and
- j. Adopt an ordinance repealing Ordinance No. 2015-1 and adopting amended regulations for the discharge of wastewater to sewerage facilities of IRWDtributary to the South Orange County Wastewater Authority.

Ord. No. 2020-1

CONSENT CALENDAR

Items 5-12

5. BOARD MEETING MINUTES

Recommendation: That the minutes of the November 9, 2020 Regular Board meeting be approved as presented.

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

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

7. CHANGES TO GENERAL MANAGER'S COMPENSATION

Recommendation: That the Board approve an increase to the annual salary of the General Manager to the amount of \$324,156, a one-time performance award in the amount of \$30,000, and increase the General Manager's automobile allowance to \$800 per month, effective October 1, 2020.

8. VARIANCE TO THE LETTER OF ENGAGEMENT WITH ALSTON & BIRD

Recommendation: That the Board authorize the General Manager to execute a variance to the Letter of Engagement with Alston & Bird for legal services related to complex issues and litigation increasing the not-to-exceed value of the contract by \$10,000,000.

9. 2021 GENERAL COUNSEL CONTRACT

Recommendation: That the Board authorize the General Manager to execute a Professional Services Agreement with Hanson Bridgett LLP for general counsel legal services focused on municipal law, transactional and non-complex issues, and rate-setting with a term of January 1, 2021, to December 31, 2021, and a not-to-exceed value of \$1,050,000.

10. 2021022 IRWD LOBBYING AND ADVOCACY SERVICES

Recommendation: That the Board authorize the General Manager to execute a Professional Services Agreement with Kadash & Associates for federal advocacy services for the period of January 1, 2021, through December 31, 2022, at a rate of \$10,200 per month plus reasonable reimbursement of direct expenses for a total contract amount not to exceed \$265,000.

CONSENT CALENDAR (CONTINUED)

Items 5-12

11. ADOPTION OF A REVISED SCHEDULE OF POSITIONS AND SALARY RATE RANGES

Recommendation: That the Board adopt a resolution rescinding Resolution No. 2020-12 and adopting a revised schedule of positions and salary rate ranges.

Reso. No. 2020-22

12. OCTOBER 2020 TREASURY REPORT

Recommendation: That the Board receive and file the Treasurer's Investment Summary Report, the Summary of Fixed and Variable Rate Debt, and Disclosure Report of Reimbursements to Board members and staff, approve the October 2020 Summary of Payroll ACH payments in the total amount of \$2,154,188 and approve the October 2020 accounts payable Disbursement Summary of warrants 412075 through 412086, Workers' Compensation distributions, wire transfers, payroll withholding distributions and voided checks in the total amount of \$30,169,398.

ACTION CALENDAR

13. REHABILITATION OF DYER ROAD WELLFIELD WELLS 1, 11 AND 13 CONSTRUCTION AWARD

Recommendation: That the Board authorize the General Manager to execute a construction contract with Best Drilling and Pump, Inc. in the amount of \$1,698,100 for Rehabilitation of Dyer Road Wellfield Wells 1, 11 and 13, Projects 07092, 07088 and 10098.

14. DAM SAFETY PROGRAM CONSULTANT SELECTION

Recommendation: That the Board authorize the General Manager to execute a Professional Services Agreement in the amount of \$389,200 with HDR for the second phase of the Dam Safety Program, Projects 10452 And 10456.

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

Recommendation: That the Board approve the updated Water Banking, Transfers and Wheeling Policy Position Paper.

OTHER BUSINESS

Pursuant to Government Code Section 54954.2, members of the Board of Directors or staff may ask questions for clarification, make brief announcements, and 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.

16. General Manager's Report
17. Directors' Comments
18. Receive oral update(s) from District liaison(s) regarding communities within IRWD's service area and provide information on relevant community events.

OTHER BUSINESS (CONTINUED)

19. Closed Session

CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION –
Pursuant to Government Code Section 54956.9(d)(1): *IRWD v. OCWD, et al.*,
Case No. 30-2016-00858584-CU-WM-CJC.

20. Open Session
21. 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 above-named Board in connection with a matter subject to discussion or consideration at an open meeting of the Board 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 electronically via the Webex meeting noted. Upon request, the District will provide for written agenda materials in appropriate alternative formats, and reasonable disability-related modification or accommodation to enable individuals with disabilities to participate in and provide comments at public meetings. Please submit a request, including your name, phone number and/or email address, and a description of the modification, accommodation, or alternative format requested at least two days before the meeting. Requests should be emailed to comments@irwd.com. Requests made by mail must be received at least two days before the meeting. Requests will be granted whenever possible and resolved in favor of accessibility.

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November 23, 2020
Prepared and
Submitted by: L. Bonkowski
Approved by: Paul A. Cook



CONSENT CALENDAR

RESOLUTION COMMENDING MARY AILEEN MATHEIS FOR 32 YEARS
OF DEDICATED SERVICE TO IRWD

SUMMARY:

As President Mary Aileen Matheis' term on IRWD's Board of Directors is concluding soon, staff recommends the Board adopt a resolution commending her for over 32 years of dedicated service to the District and to the water industry. The resolution commending President Matheis is provided as Exhibit "A".

FISCAL IMPACTS:

None.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

Not applicable.

RECOMMENDATION:

THAT THE BOARD ADOPT THE FOLLOWING RESOLUTION BY TITLE:

RESOLUTION NO. 2020-21

RESOLUTION OF THE BOARD OF DIRECTORS OF THE
IRVINE RANCH WATER DISTRICT
COMMENDING MARY AILEEN MATHEIS
FOR 32 YEARS OF DEDICATED SERVICE TO IRWD

LIST OF EXHIBITS:

Exhibit "A" – Resolution

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EXHIBIT "A"

RESOLUTION NO. 2020-21

RESOLUTION OF THE IRVINE RANCH WATER DISTRICT COMMENDING MARY AILEEN MATHEIS FOR 32 YEARS OF DEDICATED SERVICE TO IRWD

WHEREAS, Mary Aileen Matheis has served on the IRWD Board of Directors since 1988, when she was appointed to fill an unexpired term. Following her appointment, she was first elected to the IRWD Board in 1992. During her 32 years of service, she has served as President of the Board four times, with her most recent term in 2020, and has served as Vice President eight times; and

WHEREAS, Mary Aileen currently serves on the IRWD Water Resources Policy and Communications Committee. She also serves on the Legal Affairs Committee of the Association of California Water Agencies (ACWA), and as the Third Vice President of the Independent Special District of Orange County's Executive Committee, a Board Member of the Urban Water Institute and the Water Education Foundation, Chair of the Santiago Aqueduct Commission, as a member on the South Orange County Watershed Management Area Executive Committee, and as alternate member on the Newport Bay Watershed Executive Committee. Additionally, Mary Aileen serves as IRWD's representative to the ACWA/Joint Powers Insurance Authority, California Special Districts Association, El Toro Restoration Advisory Board, Greater Irvine Chamber of Commerce, Orange County Council of Governments, and South Orange County Economic Coalition; and

WHEREAS, Mary Aileen is a founding member and a Director of the San Joaquin Wildlife Sanctuary, Inc., a non-profit organization dedicated to educational and scientific purposes since 1992. She is also President of the Shadetree Partnership, a non-profit environmental organization dedicated to distributing and planting trees and shrubs throughout Orange County since 2000; and

WHEREAS, Mary Aileen is a practicing lawyer and a member of the Orange County Bar Association. She is also a member of the Orange County Association of Realtors and serves on the Assessment Appeals Board of Orange County; and

WHEREAS, Mary Aileen has been honored as the Woman of the Year, awarded by Senator Ross Johnson, and as Volunteer of the Year, awarded by the Orange County Board of Supervisors; and

WHEREAS, Mary Aileen is known for her dedication to the water industry and will be missed by all at IRWD.

NOW, THEREFORE, BE IT RESOLVED, the Board of Directors of the Irvine Ranch Water District commends and thanks Mary Aileen Matheis for her outstanding service to IRWD and to the water industry and extends its best wishes to her.

SIGNED and APPROVED this 23rd day of November 2020.

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

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

November 23, 2020
Prepared by: J. Colston
Submitted by: K. Burton
Approved by: Paul A. Cook



ACTION CALENDAR

PRETREATMENT ORDINANCE FOR FACILITIES TRIBUTARY TO SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

SUMMARY:

The current IRWD regulations to control industrial discharges to IRWD sewerage facilities tributary to the South Orange County Wastewater Authority (SOCWA) were last amended in 2015. Periodic amendments to these regulations are needed to incorporate the requirements of new state and federal pretreatment regulations to address changes in administrative procedures and/or as a result of regulatory audits. Provided as Exhibit “A” is a draft Ordinance consisting of the updated provisions for the portions of IRWD’s sewage collection and treatment systems that are tributary to SOCWA. The introduction of the Ordinance to amend regulations was completed at IRWD’s Board meeting on October 26, 2020. Staff recommends the Board conduct a public hearing, complete the reading, and adopt the Ordinance.

OUTLINE OF PROCEEDINGS

- President: Declare this to be the time and place for the hearing on the Ordinance.
- President: Request the Secretary to report the manner by which the Notice of Hearing was given.
- Secretary: The Notice of this hearing was published in the Orange County Register on November 8, 2020 and was posted on November 8, 2020 within the IRWD service area tributary to the South Orange County Wastewater Authority. The notice was also posted in the District office on November 9, 2020. The Secretary presents an Affidavit of Posting and Proof of Publication for the Board to receive and file.
- Board: RECOMMENDED MOTION: RECEIVE AND FILE THE AFFIDAVIT OF POSTING THE PROOF OF PUBLICATION PRESENTED BY THE SECRETARY.
- President: Inquire of the Secretary whether there have been any written communications.
- Secretary: Respond.
- President: Request a report from the Director for Water Quality and Regulatory Compliance.
- Dir. of WQ and RC: Report and describe the proposed revisions and indicate that the clarifications and revisions to the Ordinance are summarized in Exhibit “B.”

President: Inquire whether anyone is present who wishes to address the Board concerning the amended Ordinance. Inquire whether there are any comments or questions from the members of the Board of Directors.

RECOMMENDATION:

- (1) THAT THE HEARING BE CLOSED, THAT THE ORDINANCE BE READ BY TITLE ONLY, THAT FURTHER READING OF THE ORDINANCE BE WAIVED.

Secretary: Read the title of the proposed Ordinance:

ORDINANCE NO. 2020-1

AN ORDINANCE OF THE BOARD OF DIRECTORS OF IRVINE RANCH WATER DISTRICT REPEALING ORDINANCE NO. 2015-1 AND ADOPTING REGULATIONS FOR THE DISCHARGE OF WASTEWATER TO SEWERAGE FACILITIES OF THE IRVINE RANCH WATER DISTRICT TRIBUTARY TO THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

- (2) THAT THE ORDINANCE BE ADOPTED.

BACKGROUND:

IRWD is required by state and federal laws and regulations to control the discharge of non-domestic sewage to its collection and treatment systems to prevent pollutants from upsetting the treatment systems or passing through to the environment. To comply with these requirements, IRWD has an established Pretreatment and Source Control Program (Pretreatment Program). Ordinance No. 2015-1 governs the Pretreatment Program for the portions of its sewage collection systems that are tributary to IRWD's Los Alisos Water Recycling Plant (LAWRP). When recycled water demand is low, all or a portion of LAWRP's secondary treated effluent is discharged to the ocean via SOCWA's Aliso Creek Ocean Outfall. SOCWA, as the owner and operator of the ocean outfall, maintains a Pretreatment Program ordinance and requires systems tributary to the ocean outfall to adopt an identical ordinance. An interagency agreement between IRWD and SOCWA defines each agency's duties and responsibilities in implementing these ordinances.

The Pretreatment Ordinance primarily regulates industrial users and regulates sewer use and discharges in compliance with applicable state and federal regulations, establishes quality and quantity limitations on all sewer discharges and imposes pretreatment requirements on the degree of waste authorized to be discharged to IRWD sewage treatment facilities that are tributary to SOCWA. The Pretreatment Ordinance also provides for the issuance of permits to impose additional case-by-case requirements as appropriate, establishes fees and other penalties for noncompliance and/or violations and establishes specific facility requirements, inspection, monitoring, sampling, notification and reporting requirements.

Revisions are made periodically to the Pretreatment Ordinance to maintain compliance with changing federal pretreatment regulations, to update administrative provisions, and/or as a result of a regulatory audit. As a result of SOCWA's recent pretreatment program audit conducted by the San Diego Regional Water Quality Control Board in December 2018, SOCWA was required to amend its own pretreatment ordinance, and therefore IRWD must amend its companion ordinance to maintain consistency. IRWD staff worked cooperatively with SOCWA staff to incorporate the required changes to IRWD's Pretreatment Ordinance. Provided as Exhibit "A" is the proposed Pretreatment Ordinance consisting of the updated provisions for the portions of IRWD's sewage collection and treatment systems that are tributary to SOCWA. The proposed revisions to the Pretreatment Ordinance are summarized in Exhibit "B".

The Pretreatment Ordinance will repeal Ordinance No. 2015-1 and amend regulations for discharges to sewerage facilities of IRWD that are tributary to SOCWA. Adoption of an ordinance is a two-step process that requires: 1) a first reading and introduction, which was completed at IRWD's Board meeting on October 26, 2020, and 2) a second reading and adoption.

FISCAL IMPACTS:

The Program is already being administered, and the proposed revisions are not expected to result in a significant fiscal impact to IRWD.

ENVIRONMENTAL COMPLIANCE:

The adoption of the Pretreatment Ordinance is categorically exempt from the California Environmental Quality Act pursuant to the California Code of Regulations, Title 14, Division 6, Chapter 3, Sections 15307 and 15308, which provide exemptions for actions by regulatory agencies for protection of natural resources and the environment.

COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on October 20, 2020.

LIST OF EXHIBITS:

Exhibit "A" – Proposed Pretreatment Ordinance
Exhibit "B" – Summary of Revisions to Ordinance

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EXHIBIT "A"

IRVINE RANCH WATER DISTRICT
WASTE DISCHARGE PRETREATMENT
AND
SOURCE CONTROL PROGRAM

An Ordinance Repealing Ordinance No. 201~~51~~²⁰-1 and
Adopting ~~Amended~~ Regulations for
the Discharge of Wastewater to Sewerage Facilities of
the Irvine Ranch Water District ~~that are in the~~ Tributary to
the South Orange County Wastewater Authority ~~Service Area~~

(Pretreatment Ordinance)

ORDINANCE ~~2015~~2020-1

~~As amended xxx~~ Adopted _____, 2020

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

irwd.com

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| ~~[to be inserted following finalization of sections]~~

**THE BOARD OF DIRECTORS OF THE IRVINE RANCH WATER DISTRICT HEREBY DOES
ORDAINS AS FOLLOWS:**

**ARTICLE 1
GENERAL PROVISIONS**

1.01 INTRODUCTION

- A. The Irvine Ranch Water District ("IRWD") was organized in 1961 ~~by authority of under~~ the California Water District Law (Section 34000 of the Water Code of the State of California). ~~The IRWD is governed by a five member Board of Directors (Board) elected from the qualified voters in the entire IRWD service area. For the purpose of this ordinance, the IRWD~~IRWD provides ~~water distribution and~~ wastewater collection and treatment services to residential and commercial establishments in the City of Lake Forest area, ~~which~~ ~~Ww~~wastewater is treated at ~~the IRWD~~IRWD's Los Alisos Wastewater Reclamation Plant. ~~Any unused wastewater is discharged to the ocean via the South Orange County Wastewater Authority's (SOCWA) Aliso Creek Ocean Outfall.~~
- B. ~~The South Orange County Wastewater Authority (SOCWA) is a joint powers authority that is governed by its own Board of Directors with each director representing a member agency (MA). MAs join together in various project committees to construct and owns and operates joint sewerage facilities in south Orange County, including effluent transmission main pipelines and ocean outfalls. SOCWA is the holder of the NPDES permits, which states regulating the pretreatment and waste discharge requirements for the sewerage facilities. Any unused IRWD discharges wastewater from the Los Alisos Wastewater Reclamation Plant is discharged to the ocean via the South Orange County Wastewater Authority's (SOCWA) to SOCWA's Aliso Creek Effluent Transmission Main pipeline, and ultimately to SOCWA's Aliso Creek Ocean Outfall. The SOCWA Ocean Outfalls are the key facilities in the SOCWA system. Treated wastewater is discharged to the outfalls from SOCWA and the IRWD~~IRWD's wastewater treatment plants.
- C. ~~SOCWA, IRWD, and Santa Margarita Water District are parties to a *Multijurisdictional Agreement Regarding Pretreatment Program Implementation and Enforcement* effective May 20, 2003 (Multijurisdictional Agreement), that provides for joint administration and enforcement of an industrial pretreatment program designed to ensure compliance with NPDES and other regulatory requirements in connection with IRWD's use of SOCWA's facilities. This ordinance is intended to fulfill IRWD's duties under the Multijurisdictional Agreement to adopt a pretreatment ordinance and enforcement response plan consistent with SOCWA's pretreatment program. SOCWA is the lead agency responsible for the implementation of the provisions contained in this ordinance. The IRWD, a MA of SOCWA may opt to administer and enforce these provisions under SOCWA's oversight, or may contract with SOCWA to have these services provided directly to the IRWD. An interagency agreement has been adopted between the IRWD and SOCWA that defines each agency's duties and responsibilities. This interagency agreement is on file at the IRWD and SOCWA offices.~~
- C-D. This ordinance may be referred to as the "Pretreatment Ordinance."

1.02 OBJECTIVES

- A. The objectives of this ordinance are to:
1. Ensure compliance with various regulatory agencies and the National Pollutant Discharge Elimination System (NPDES) ~~Requirements~~requirements.
 2. Prevent the introduction of pollutants that may cause interference of sewerage facility operations.
 3. Identify the goals, objectives and procedures for complying with federal pretreatment standards.
 4. Prevent biosolids contamination.
 5. Promote the opportunity to recycle and reclaim wastewaters or biosolids from sewerage facilities.
 6. Encourage waste minimization and material substitution by users.
 7. Protect sewerage facility employees and the general public who may be affected by wastewater, biosolids and chemical hazards.
 8. Encourage the reuse, recycling and reduction of water, wastewater or solids that are discharged to sewerage facilities.
 9. Minimize the discharge of volatile organic compounds that could individually or collectively contribute to a decrease in the quality of air emission from sewerage facilities.
 10. Establish an effective monitoring program for the control of user discharges to sewerage facilities.
 11. Establish an enforcement response plan (ERP) consistent with SOCWA's pretreatment program. ~~-to help ensure consistent application of the provisions of this Ordinance.~~
 12. Equitably distribute costs among users.
 13. Prevent the introduction of pollutants into sewerage facilities that may pass through a sewerage facility, inadequately treated, into the receiving waters, or otherwise be incompatible with sewerage facilities.
 14. Incorporate the necessary laws and regulations in order to implement and enforce federal, State of California (State), IRWD and SOCWA standards.
 15. Seek to identify users that discharge or have the potential to discharge toxic pollutants, non-compatible or excessive amounts of compatible wastes to sewerage facilities.

1.03 PURPOSE

A. The purpose of this ordinance is to:

1. Provide for the maximum public benefit from the use of IRWD sewerage facilities. This is accomplished by regulating the use of sewerage facilities and wastewater discharges by providing equitable distribution of costs in compliance with applicable state and federal regulations and by providing procedures that will allow ~~the IRWD~~IRWD to comply with requirements placed upon it by other regulatory agencies. Any revenues derived from the application of this ordinance may be used to recover the cost of providing services by ~~the IRWD~~IRWD which includes but are not limited to administration, monitoring, and enforcement.
2. Comply with federal and state regulations which allow ~~the IRWD~~IRWD to meet applicable standards for the final effluent and ocean outfall quality. This ordinance establishes quality and quantity limitations on all wastewater discharges whether or not the discharges adversely affect IRWD's sewerage facilities, processes, ocean outfall effluent quality, or inhibit IRWD's ability to meet its specific discharge limitations. It is the intent of this ordinance to improve the quality of wastewater being received for treatment and to encourage water conservation by all users connected to a sewerage facility. It is ~~the IRWD~~IRWD's intent to discourage the increase in quantity (mass emission) of waste constituents being discharged. This ordinance also imposes pretreatment requirements on the degree of waste authorized to be discharged to ~~the IRWD~~IRWD's sewerage facilities; provides for the issuance of wastewater discharge permits or other controlling mechanism to impose additional case-by-case requirements, as appropriate, and establishes fees and other penalties for noncompliance and/or violation of this ordinance.

1.04 POLICY

A. The policy of this ordinance is to be:

1. Interpreted in accordance with the definitions set forth in Article 2. The provisions of this ordinance shall apply to the discharge of all wastes carried to IRWD sewerage facilities tributary to SOCWA facilities, and ~~have been~~should be liberally construed so as to effectuate the environmental purposes, objectives, and other provisions set forth herein.
2. Committed to wastewater reclamation and reuse in order to provide an alternate source of water supply. The adoption of programs for reclamation through secondary and tertiary wastewater treatment processes may necessitate more stringent quality requirements on wastewater discharges. In the event that more stringent quality requirements are necessary, this ordinance may be amended to reflect those changes.
3. Committed to the beneficial use of biosolids. The implementation of programs to land apply or provide for the marketing and distribution of biosolids may necessitate more stringent quality requirements on waste-water discharges. In the event that more stringent quality requirements are necessary, this ordinance may be amended to reflect these changes.

4. Committed to compliance with all applicable state and federal laws including the Clean Water Act in 33 United States Code 1251 et seq. and the general pretreatment regulations described in 40 CFR 403.

1.05 APPLICABILITY

This ordinance ~~may apply~~applies to ~~all users within the IRWD service area and to users outside the IRWD service area who, by wastewater discharge permit or other controlling mechanism, make users persons that~~ use ~~of any~~ IRWD sewerage facilities that are ~~within the tributary to SOCWA service area~~facilities.

1.06 AVAILABILITY OF SEWERAGE FACILITIES

If capacity in a sewerage facility as a whole is not available, IRWD may restrict discharge of existing users until sufficient capacity can be made available. ~~The IRWD~~IRWD may refuse immediate service to new users where their proposed quality or quantity of wastewater is unacceptable to the available sewerage facilities.

1.07 NOTICE TO EMPLOYEES

A. ~~The IRWD~~ may shall provide ~~one (1) copy of~~ this ordinance to each user that has received a wastewater discharge permit, upon request.

~~B.~~ Users who are issued a wastewater discharge permit may shall make copies of this ordinance available to their employees, ~~copies of this ordinance~~.

~~C.B.~~ ~~Users who are issued a wastewater discharge permit may make copies of it, so as to make it available to all personnel~~ at all times.

~~D.C.~~ All industrial dischargers shall permanently post a notice ~~may be permanently posted~~ in prominent places advising employees to call ~~the IRWD~~IRWD in the event of an uncontrolled spill or discharge as soon as possible and to submit a report as indicated in section 8.03 or 8.04 of this ordinance. The notice shall provide for necessary instruction and information, including but not limited to:

1. IRWD phone numbers.
2. SOCWA phone numbers.
3. Recording the time of the incident.
4. Name and location of user.
5. Type, concentration and volume of the discharge.
6. Corrective action taken.
7. Name of person reporting the incident.

ARTICLE 2 DEFINITIONS AND ABBREVIATIONS

2.01 DEFINITIONS CONTAINED IN PUBLICATION

- A. Unless otherwise defined herein, terms related to water quality shall be defined in the same manner as in the latest edition of Standard Methods for the Examination of Water and Wastewater, published jointly by the American Public Health Association (APHA), The American Water Works Association (AWWA), and the Water Environment Federation (WEF).
- B. The testing procedure for waste constituents and characteristics shall be as described in 40 CFR 136.

2.02 DEFINITION OF TERMS

- A. Words used in this ordinance in the singular may include the plural and the plural singular. Use of masculine shall mean feminine and the use of feminine shall mean masculine.
- B. The definitions in this ordinance are not intended to narrow the scope of definitions set forth in federal or state regulations. Unless the context specifically indicates otherwise the following terms, or pronouns used in their place, shall be interpreted as follows:
 - 1. Act or "the Act". The Federal Water Pollution Control Act also known as the Clean Water Act (~~CWA~~) as well as any amendments, guidelines, limitation or standards promulgated by the EPA pursuant to the Act, (33 USC 1251 et seq.).
 - 2. Approval Authority. Refers to the US Environmental Protection Agency (EPA), the California State Water Resources Control Board (SWRCB), or the local California Regional Water Quality Control Board (RWQCB).
 - 3. Baseline Monitoring Report (BMR). A required report for all industrial users subject to a categorical pretreatment standard. A BMR provides information that documents an industrial user's compliance status with all applicable pretreatment standards.
 - 4. Batch Dump. The discharge of pollutants or compatible wastes in a manner or method that is not approved or is prohibited by ~~the IRWD~~IRWD.
 - 5. Best Available Technology (BAT). A level of technology that is based on the very best (state of the art) control and treatment measures that have been developed or are capable of being developed for a particular industrial category.
 - 6. Best Management Practices (BMPs). A set of schedules of activities, prohibitions of practices, maintenance procedures, operating procedures and other management practices used to control a user or a group of similar users' discharge to sewerage facilities. BMPs may include, but are not limited to treatment requirements, operating procedures, and practices to control plant site runoff, spillage of leaks, sludge or waste disposal, or drainage from raw materials storage.

7. Best Practicable Technology (BPT). A level of technology represented by the average of the best existing wastewater treatment performance levels within an industrial category.
8. Biochemical Oxygen Demand (BOD). The quantity of oxygen utilized in the biochemical oxidation of organic matter in wastewater using appropriate testing procedure and expressed as a concentration (e.g. mg/L).
9. Biodegradable. A material that can be decomposed by a biological process.
10. Biohazardous Waste. ~~area-Any~~ material that is likely to transmit etiologic agents that cause, or significantly contribute to the cause of, increased morbidity or mortality of human beings as set forth by the State Medical Waste Management Act.
11. Board. The Board of Directors of the Irvine Ranch Water District ~~(IRWD)~~.
12. Building Sewer. The entire length of private sewage service lateral extending from the building or structure ~~that is connected to the~~ to a sewerage facility, and including the connection to that sewerage facility.
13. By-Pass. Any intentional diversion of waste streams around any portion of a user's pretreatment equipment.
14. Categorical Industrial User (CIU). A user subject to a federal categorical pretreatment standard or categorical standard
15. Chain of Custody. A document used to ensure the integrity of a sample, which includes a record of each person involved in the possession of a sample, securing the sample, and final disposal of the sample.
16. Chemical Oxygen Demand (COD). The quantity of oxygen required to oxidize all compounds, both organic and inorganic, in wastewater using the appropriate testing procedure and expressed as a concentration (e.g. mg/L).
17. Class I User. Any user determined by ~~the IRWD~~IRWD that meets the criteria of significant industrial user (SIU) as described in 40 CFR 403.
18. Class II User. Any user determined by ~~the IRWD~~IRWD that is not a SIU and may discharge pollutants or non-compatible wastes which may impact sewerage facilities.
19. Class III User. Any user determined by ~~the IRWD~~IRWD that is not a SIU and may discharge conventional pollutants or compatible wastes, which may impact sewerage facilities.
20. Class IV User. Any user determined by IRWD that may discharge or is proposing to discharge special wastewater that may contain toxic or conventional pollutants, or non-compatible or compatible wastes which may impact sewerage facilities.

21. Code of Federal Regulations (CFR). The code of the Federal Government of the United States of America, which contains all of the federal regulations including environmental regulations.
22. Company Authorized Representative (CAR). An individual designated by the user, who is responsible for signing all submittals to ~~the IRWD~~IRWD and who meets the criteria as described in 40 CFR 403.
23. Compatible Waste. Waste that does not contain toxic pollutants or non-compatible wastes. This may include a combination of, but is not limited to, conventional pollutants or other wastes that sewerage facilities are designed to accept and/or remove. Compatible wastes are non-compatible when discharged in quantities that have an adverse effect on sewerage facilities or violate SOCWA's NPDES Permit, or when discharged in qualities or quantities violating any National Pretreatment Standard or other discharge requirement or as determined by ~~the IRWD~~IRWD.
24. Composite Sample. A collection of individual samples obtained at intervals based on an increment of either flow or time. The resulting mixture, a composite sample, forms a representative sample of the wastestream discharged during the sample period.
25. Control Authority (CA). The Irvine Ranch Water District (IRWD) and/or the South Orange County Wastewater Authority (SOCWA).
26. Conventional Pollutants. Those pollutants which are designated pursuant to section 304(a)(4) of the Act which include, biochemical oxygen demand (BOD), total suspended solids (TSS), fecal coliform, pH, and oil and grease.
27. Daily Maximum. The arithmetic average of all effluent samples for a pollutant collected during a calendar day.
28. Daily Maximum Limit. The maximum allowable discharge limit of a pollutant during a calendar day. Where Daily Maximum Limits are expressed in units of mass, the daily discharge is the total mass discharged over the course of the day. Where Daily Maximum Limits are expressed in terms of a concentration, the daily discharge is the arithmetic average measurement of the pollutant concentration derived from all measurements taken that day.
29. Discharger. Any entity which discharges or causes a discharge of wastewater that is directly or indirectly discharged to sewerage facilities. May be interchangeable with indirect discharger, industrial user, permittee, person or user.
30. Discharge Requirements. The requirements of federal, state or local public agencies having jurisdiction over the effluent discharged sewerage facilities or the environment.
31. Dry Weather Nuisance Flow (nuisance flow). Any water or other discharge which finds its way to that is received into storm drains from urban areas. Nuisance flow is, composed primarily of runoff from lawn or landscape watering, washing of

vehicles, hosing down of paved areas, storm drain infiltration, natural groundwater from sub-drain systems and a variety of other sources associated with urban activity. This nuisance flow may be high in bacteriological contamination, oil and grease, and may have high organic and inorganic mineral content. Nuisance flow does not include stormwater, as defined, unless stormwater is captured, treated, controlled (thereby becoming a non-stormwater, nuisance flow) and discharged to the sewer during dry weather. Nuisance flows may come in contact with people or the environment in undesirable ways. Nuisance flow is a component of urban runoff.

32. Disposal. A controlled release to sewerage facilities or to the environment.
33. Effluent. Usually water or wastewater discharged partially or completely treated or untreated from any part of an industrial user or treatment plant, ~~or part thereof.~~
34. Enforcement. A series of progressively more stringent actions used to seek compliance with federal, state or local laws, regulations, limitations and this ordinance, and guided by the Enforcement Response Plan, adopted as Resolution 2009-02, and as may be amended from time to time, guided by the Enforcement Response Plan, adopted as Resolution 2009-02. Any enforcement may include monetary fees, fines or penalties.
35. Environmental Protection Agency (EPA). The U.-S. Environmental Protection Agency or, where appropriate, the Regional Water Management Division Director, the Regional Administrator, or other duly authorized official of said agency.
36. Existing Source. Any source of discharge that is not a "New Source".
37. Fee. Any amount assessed to a discharger for the use of any portion of a sewerage facility which shall include, but not be limited to, connection fees, monthly sewer service, wastewater discharge permit, excess capacity fee, industrial wastewater treatment, laboratory testing, industrial inspection, and monitoring fees.
38. Flow Monitoring Equipment. Equipment and/or structures provided at the user's sole expense to measure, totalize, record and/or sample incoming water to the user's site or the wastewater discharged to sewerage facilities.
39. General Manager. The individual duly designated by the Board of ~~the IRWD~~IRWD to administer this ordinance.
40. Grab Sample. A sample collected from a wastestream without regard to the flow in the wastestream and over a period of time not to exceed fifteen (15) minutes..
41. Grease. Includes, but is not limited to fats, oils and grease (FOG), waxes and other non-volatile materials as determined by the appropriate testing procedures.
42. Groundwater. Water that is beneath the surface of the earth.

43. Hazardous Waste. Any waste that is potentially damaging to of the environment or a person's health due to toxicity, ignitability, corrosivity, chemical reactivity or other reasons.
44. Indirect Discharge or Discharge. The introduction of Pollutants into a POTW from any non-domestic source regulated under section 307(b), (c), or (d) of the Act.
45. Industrial User. Any site that discharges industrial wastewater to sewerage facilities. May be interchangeable with discharger, indirect discharger, permittee or user.
46. Industrial Wastewater. All liquid-carried wastes or wastewater of the community, excluding domestic wastewater, and may include all wastewater from any producing, manufacturing, processing, agricultural, or other operation or location.Inspector. A person authorized by the General Manager to inspect and/or monitor any industrial user's discharge or anticipated discharge to any sewerage facility.
48. Interference. A discharge that, alone or in conjunction with a discharge or discharges from other sources, inhibits or disrupts any sewerage facilities, any treatment processes or operations or any sludge processes, use or disposal and therefore, is a cause of violation of ~~the IRWD~~IRWD's or SOCWA's NPDES permits (including an increase in the magnitude or duration of a violation) or prevents lawful biosolids or treated effluent use or disposal.
49. Interjurisdictional Agreements (Also referred to as Interagency Agreements). An agreement between SOCWA and any individual or combination of MA's or other local sewerage agency that defines the authority and responsibility to implement the Waste Discharge Pretreatment and Source Control Program and to enforce the regulations contained in this ordinance within the individual and/or combination of MAs, or any other local sewerage agency's service area.
- ~~50. Irvine Ranch Water District (IRWD). The agency that is responsible for the adoption of this ordinance and is a MA of SOCWA.~~
- ~~51.~~50. Local Limits. A set of specific discharge limits developed and enforced by ~~the IRWD~~IRWD and/or SOCWA ~~upon a user's site~~ in order to implement the general and specific discharge prohibitions as described in 40 CFR 403.
- ~~52.~~51. Local Sewering Agency. Any public agency or private company responsible for the collection, treatment or disposal of wastewater to sewerage facilities that are duly authorized under the laws of the State to construct and/or maintain sewerage facilities.
- ~~53.~~52. Lower Explosive Limit (LEL). The point where an explosive gas in an area of atmosphere that is at a sufficient concentration as to result in an explosion if a sufficient ignition source is present.
- ~~54.~~53. Mass Emission Rate. The weight of material discharged to sewerage facilities during a given time interval. Unless otherwise specified, the mass emission rate

shall mean pounds per day of a particular constituent or combinations of constituents.

~~55-54.~~ May. Permissive or discretionary.

~~56-55.~~ Member Agency (MA). Any one, combination, or all of the ~~individual districts or cities which are~~ members of SOCWA. ~~They are: City of Laguna Beach (CLB), City of San Clemente (CSC), City of San Juan Capistrano (CSJC), El Toro Water District (ETWD), Emerald Bay Service District (EBSD), Irvine Ranch Water District (IRWD), Moulton Niguel Water District (MNWD), Santa Margarita Water District, (SMWD), South Coast Water District, (SCWD) and the Trabuco Canyon Water District (TCWD).~~

~~57-56.~~ Monthly Average. The sum of all "daily discharges" measured during a calendar month divided by the number of "daily discharges" measured during the month.

~~58-57.~~ National Pollutant Discharge Elimination System (NPDES) Permit. The document issued for the control of discharges to surface waters of the United States as detailed in Section 402 of the Act.

~~59-58.~~ National Pretreatment Standards. Includes the following terms established pursuant to 40 CFR 403.5 and 40 CFR 403.6: "Prohibited Discharges", "General Prohibitions", "Specific Prohibitions", "Local Limits", "Categorical Standards", "Categorical Pretreatment Standards", "Pretreatment Standards" and "Standards". These terms apply to any pollutant discharge regulations that are promulgated by the EPA in accordance with Section 307 (b) and (c) of the Act that limits and/or prohibits the wastewater discharged by users into a sewerage facility.

~~60-59.~~ New Source. Those sources that are new as defined by 40 CFR 403.3(m).

~~61-60.~~ Non-Compatible Waste. Waste that contains toxic or non-compatible pollutants that may pass-through or cause interference if discharged to sewerage facilities.

~~62-61.~~ Non-Stormwater Discharge. Discharges that do not immediately originate from precipitation events unless precipitation is captured and discharged after a rain event. Including but not limited to: discharges of process water, air conditioner condensate, non-contact cooling water, vehicle wash water, sanitary wastes, concrete washout water, paint wash water, irrigation water, or pipe testing water.

~~63-62.~~ Non-industrial Wastewater Discharge (NIWD) Form. A form issued users that are considered to have wastewater of no concern discharging to sewerage facilities. This form may contain BMP's.

~~64-63.~~ Normal Working Day. Any period of time during which production or operation is taking place or any period which discharge to sewerage facilities is occurring..

~~65-64.~~ North America Industry Classification System (NAICS). An industry classification system that groups establishments into industries based on the activities which they are primarily engaged.

- ~~66-65.~~ Nuisance. Anything which may be injurious to health or is indecent or offensive to the senses or an obstruction to the free use of property so as to interfere with the comfort or enjoyment of life or property or which affects at the same time an entire community or neighborhood or any considerable number of persons, although the extent of the annoyance or damage inflicted upon individuals may be unequal.
- ~~67.~~ ~~Ordinance. The document entitled "An Ordinance of Regulations for the Discharge of Wastewater to Sewerage Facilities of the Irvine Ranch Water District Service Area" containing IRWD's requirements, conditions and limitations for discharging to sewerage facilities, as may be amended and modified.~~
- ~~68.~~ 66. Pass Through. A discharge from a user which exits sewerage facilities into waters of the United States in quantities or concentrations which, alone or in conjunction with any discharge from other sources, is a cause of a violation of any requirement of IRWD's or SOCWA's NPDES Permits, including an increase in the magnitude or duration of a violation. Permittee. A discharger who has received a permit to discharge wastewater into ~~the IRWD~~IRWD's sewerage facilities subject to the requirements and conditions established by ~~the IRWD~~IRWD. May be interchangeable with discharger, indirect discharger, industrial user, person or user.
- ~~70.~~ 68. Person. Any individual, partnership, copartnership, firm, company, corporation, association, joint stock company, trust, estate, tenant, lessee, renter, governmental entity, or any other legal entity; or their legal representatives, agents or assigns. This definition includes all federal, state and local government entities. May be interchangeable with discharger, indirect discharger, industrial user, permittee or user.
- ~~71.~~ 69. Pesticides. Those compounds classified as such under Federal or State law or regulations including, but not limited to, DDT (dichlorodiphenyltrichloroethane, both isomers), DDE (dichlorodiphenylethylene), DDD (dichlorodiphenyldichloroethane), Aldrin, Benzene Hexachloride (alpha, beta and gamma isomers), Chlordane, Endrin, Endrin aldehyde, TCDD (2,3,7,8-tetrachlorodibenzo-p-dioxin), Toxaphene, Alpha-endosulfan, Beta-endosulfan, Endosulfan sulfate, Heptachlor, Heptachlor epoxide, Dieldrin Demeton, Guthion, Malathion, Methoxychlor, Merex and Parathion.
- ~~72.~~ 70. pH. A measure of the acidity or alkalinity of a solution, expressed in standard units.
- ~~73.~~ 71. Pollutant. Any substance, constituent, compound or characteristic of wastewaters on which a discharge limitation may be imposed either by ~~the IRWD~~IRWD, SOCWA, or the regulatory agencies empowered to regulate ~~the IRWD~~IRWD and SOCWA.
- ~~74.~~ 72. Polychlorinated Biphenyls (PCBs). Those compounds classified as such under Federal and State law or regulations including, but not limited to Aroclors 1016, 1221, 1228, 1232, 1242, 1248, 1254, 1260 and 1262.

- ~~75.73.~~ Pretreatment. The reduction of the amount of pollutants, the elimination of pollutants, or the alteration of the nature of pollutant properties in wastewater prior to or in lieu of introducing such pollutants into sewerage facilities. This reduction, elimination or alteration of pollutants can be obtained by physical, chemical, or biological process, by process changes or other means except as described by 40 CFR 403.
- ~~76.74.~~ Pretreatment Equipment. Any equipment, structures or devices used for the treatment or flow limitation of industrial wastewater prior to discharge to sewerage facilities.
- ~~77.75.~~ Pretreatment Requirements. Any substantive or procedural requirement related to pretreatment imposed on a user, other than a national pretreatment standard.
- ~~78.76.~~ Prohibited Discharges. Any prohibitions against the discharge of certain substances; these prohibitions appear in Article 5.
- ~~79.77.~~ Public Agency. The State and any city, county, district, agency, other local authority or public body of or within this state.
- ~~80.78.~~ Rainwater. Water resulting from precipitation which directly falls upon any surface.Regulatory Agencies. Those Agencies having jurisdiction over the operation of ~~the~~ IRWD, including, but not limited to, the following:
- a. United States Environmental Protection Agency (EPA).
 - b. State Water Resources Control Board (SWRCB).
 - c. Regional Water Quality Control Board (RWQCB).
 - d. South Coast Air Quality Management District (SCAQMD).
 - ~~e. Department of Health Services (DOHS).~~
 - ~~f.e.~~ California Environmental Protection Agency (Cal-EPA).
- ~~82.80.~~ Representative Sample Point. A location set forth in the user's wastewater discharge permit or other control mechanism from which wastewater can be collected that is as nearly identical in content and consistency as possible to that of the entire flow of wastewater being sampled. For categorical users, this point shall be at the end of each regulated process, and for all other users shall be determined on a case-by-case basis.
- ~~83.81.~~ Resource Conservation and Recovery Act (RCRA). The RCRA Act of 1976 (42 U.S.A. 6901, et seq.) to implement the conservation and recovery of used or spent resources and as amended.
- ~~84.82.~~ Routine Sampling. Any sampling conducted by ~~the IRWD~~IRWD to verify compliance of a user's discharge to sewerage facilities. Sampling may consist of either grab or composite samples or a combination of both.

~~85-83.~~ Sampling Equipment. Equipment or structure provided at the user's sole expense for ~~the IRWD~~IRWD or the user to measure and record wastewater constituents, collection of samples or provide access to plug or terminate the discharge.

~~86-84.~~ Scum. Any layer of matter or combination of air and matter that forms on or rises to the surface of a liquid or body of water.

~~87-85.~~ Sewage. Wastewater.

~~88-86.~~ Sewerage Facilities. Any and all systems used for collecting, conveying, pumping, reclamation, recycling, reuse, storage, transportation, treatment or disposal of sewage, industrial waste of a liquid nature, wastewater, sludge or biosolids that is owned and/or operated by ~~the IRWD~~IRWD, SOCWA or other public agency which is tributary to systems operated by ~~the IRWD~~IRWD or SOCWA. This definition includes, but is not limited to, publicly owned treatment works (POTW's) as defined by Section 212 of the Act (33 U.S.C. Section 1292), public sewers, trunk lines, sewer mains, wet wells, treatments plants and ocean outfalls which are owned by ~~the IRWD~~IRWD or SOCWA.

~~89-87.~~ Shall. Mandatory.

~~90-88.~~ Significant Industrial User (SIU). A user as defined by 40 CFR 403, except as provided in paragraphs c and d of this definition, which includes the following:

- a. An industrial users subject to categorical pretreatment standards; or
- b. An industrial user that: discharges an average of twenty-five (25,000) gallons per day or more of process wastewater to ~~the IRWD~~IRWD or SOCWA (excluding sanitary, noncontact cooling water, and boiler blowdown wastewater); contributes a process wastestream which makes up five percent (5%) or more of the average dry weather hydraulic or organic capacity of IRWD's or SOCWA's sewerage facilities; or is designated as such by ~~the IRWD~~IRWD on the basis that the industrial user has a reasonable potential for adversely affecting ~~the IRWD~~IRWD's or SOCWA's operation or for violating any pretreatment standard or requirement.
- c. ~~The IRWD~~IRWD may determine that an industrial user subject to categorical pretreatment standards is a Non-Significant Categorical Industrial User (NSCIU) rather than a Significant Industrial User on a finding that the industrial user never discharges more than 100 gallons per day (gpd) of total categorical wastewater (excluding sanitary, noncontact cooling and boiler blowdown wastewater, unless specifically included in the Pretreatment Standard) and the following conditions are met:
 - i. The industrial user, prior to IRWD's finding, has consistently complied with all applicable categorical pretreatment standards and requirements;

- ii. The industrial user annually submits the certification statement required in 40 CFR 403.12(q) together with any additional information necessary to support the certification statement; and
 - iii. The industrial user never discharges any untreated concentrated wastewater.
- d. Upon a finding that an industrial user meeting the criteria in paragraph b above of this definition has no reasonable potential for adversely affecting IRWD's operation or for violating any pretreatment standard or requirement, IRWD may at any time, on its own initiative or in response to a petition received from an industrial user, and in accordance with 40 CFR 403.8(f)(6), determine that such industrial user should not be considered a significant industrial user. Significant Non-Compliance. A violation by a SIU (or any IU which violates paragraphs c, d or h of this definition) as described in 40 CFR 403.8(f)(2)(viii)(A-H) which meets one or more of the following criteria:
- a. Chronic violations of wastewater discharge limits, defined here as those in which sixty-six percent (66%) or more of all of the measurements taken for the same pollutant parameter during a six (6) month period exceed (by any magnitude) a numeric pretreatment standard or requirement, including instantaneous limits, as described in 40 CFR 403.3(l);
 - b. Technical Review Criteria (TRC) violations, defined here as those in which thirty-three percent (33%) or more of all of the measurements taken for the same pollutant parameter during a six (6) month period equals or exceeds the product of the numeric pretreatment standards or requirement including instantaneous limits, as described in 40 CFR 403.3(l) multiplied by the applicable TRC (TRC = 1.4 for BOD, TSS, fats, oil and grease, and 1.2 for all other pollutants except pH);
 - c. Any other violation of a pretreatment standard or requirement as defined in 40 CFR 403.3(l) (daily maximum, long-term average, instantaneous limit, or narrative standard) that IRWD determines has caused, alone or in combination with other discharges, interference or pass through, including endangering the health of IRWD or SOCWA personnel or the general public;
 - d. Any discharge of a pollutant that has caused imminent endangerment to human health, welfare or to the environment or has resulted in ~~the~~ IRWD/IRWD's exercise of its emergency authority under 40 CFR 403.8(f)(1)(vi)(B) to halt or prevent such a discharge;
 - e. Failure to meet, within ninety (90) days after the scheduled date, a compliance schedule milestone contained in a wastewater discharge permit, other -control mechanism or enforcement order for starting construction, completing construction, or attaining final compliance;
 - f. Failure to provide within forty-five (45) days after the due date, required reports, including, but not limited to baseline monitoring reports, 90-day

compliance reports, periodic self-monitoring reports and reports on compliance with compliance schedules;

- g. Failure to accurately report noncompliance;
- h. Any other violation or group of violations, which may include a violation of Best Management Practices, which IRWD determines will adversely affect the operation or implementation of the local pretreatment program.

92.90. Sludge. Any solid, semi-solid or liquid decant, supernate, or supernate from an industrial manufacturing process, utility service or pretreatment equipment.

93.91. Slug Discharge. Any discharge of a non-routine, episodic nature, that may exceed the standards and prohibitions contained in Article 5 of this ordinance and significantly exceeds the usual industrial flow or pollutants loading, either mass or concentration including but not limited to an accidental spill or a non-customary batch discharge, which has a reasonable potential to cause interference or pass through, or in any other way violate the regulations, local limits or permit conditions associated with sewerage facilities.

94.92. Solvent. Any substance that is used to dissolve another substance in it.

~~95. South Orange County Wastewater Authority. The Joint Powers Authority (JPA) which is formed by the participating MAs. The MAs individually and/or collectively use SOCWA's sewerage facilities. SOCWA is the holder of the NPDES permits, which states the pretreatment and waste discharge requirements for the sewerage facilities.~~

96.93. Spent Solutions. Any concentrated industrial wastewater.

97.94. Spill Containment. Any protection equipment provided and installed at the user's sole expense to prohibit the discharge of non-compatible wastes to sewerage facilities.

98.95. Standard Methods. Procedures described in the current edition of Standard Methods for the Examination of Water and Wastewater, as published jointly by the American Public Health Association, the American Water Works Association and the Water Environment Federation.

99.96. Stormwater. Any flow occurring during or ~~immediately~~immediately following any form of natural precipitation, ~~including snowmelt,~~ which runs off, or travels over the ground surface to a drainage area or channel or drains uncontrolled to a municipal storm drain system for disposal in tributary to a river, stream, lake or creek and ultimately to the Pacific Ocean.

100.97. Street Drainage. Water resulting from surface runoff generated by rainwater, stormwater or other sources.

101.98. Subsurface Drainage. A method of draining that is situated under the ground (e.g., leachate control system).

- ~~402.99.~~ Surface Runoff. Runoff other than that which is caused by rainfall, stormwater, or street drainage (e.g., car wash runoff, washdown runoff) originating from a user.
- ~~403.100.~~ Total Organic Carbon (TOC). The measure of total organic carbon in domestic or other wastewater as determined by the appropriate testing procedure.
- ~~404.101.~~ Total Suspended Solids. Any insoluble material contained as a component of wastewater and capable of separation from the liquid portion by laboratory filtration as determined by the appropriate testing procedures and expressed in terms of milligrams per liter (mg/L).
- ~~405.102.~~ Toxic Pollutant. Any pollutant or combination of pollutants listed as toxic by the EPA under the provisions of Section 307(a) of the Act or other acts or that can harm human health, aquatic life or the biological treatment processes.
- ~~406.103.~~ Unpolluted Water. Water to which no constituent has been added either intentionally or accidentally.
- ~~407.104.~~ Upset. Any upset that meets the criteria as described in 40 CFR 403.
- ~~408.105.~~ User. Any person or entity which discharges or causes a discharge of wastewater to a sewerage facility, as defined by EPA regulations. May be interchangeable with discharger, indirect discharger, industrial user, permittee or person.
- ~~409.106.~~ Volatile. Natural (plant or animal origin) or synthetic substances that is capable of being evaporated or changed to vapor at relatively low temperatures.
- ~~410.107.~~ Waste. Sewage and any other waste substances, whether liquid, solid, gaseous or radioactive.
- ~~411.108.~~ Waste Manifest. A receipt which is retained by the generator of hazardous wastes as required by the State or the United States Government pursuant to RCRA or the California Hazardous Materials Act or that receipt which is retained by the generator for recyclable wastes or liquid non-hazardous wastes as required by ~~the IRWD~~IRWD.
- ~~412.109.~~ Wastewater. Liquid and water-carried industrial wastes and sewage from residential dwellings, commercial buildings, industrial and manufacturing, and institutions, whether treated or untreated, which are discharged or permitted to enter sewerage facilities.-
- ~~413.110.~~ Wastewater Constituents and Characteristics. The individual chemical, physical, bacteriological, radiological, volume, flow rate and such other parameters that serve to define, classify or measure the quality and quantity of wastewater.
- ~~414.111.~~ Wastewater Discharge (WD) Permit. The form of authorization from ~~the IRWD~~IRWD issued to an industrial user for the discharge of wastewater. This

wastewater discharge permit sets forth the limits and conditions under which the industrial user ~~shall be able~~will be allowed to discharge wastewater into sewerage facilities.

2.03 ABBREVIATION

A. The following abbreviations shall have the designated meanings:

1. "BAT" Best Available Technology
2. "BMP" Best Management Practice
3. "BMR" Baseline Monitoring Report
4. "BOD" Biochemical Oxygen Demand
5. "BPT" Best Practicable Technology
6. "CA" Control Authority
7. "CAR" Company Authorized Representative
8. "CFR" Code of Federal Regulations
9. "CIU" Categorical Industrial Userr
10. "COD" Chemical Oxygen Demand
11. "CWF" Combined Wastestream Formula
12. "DO" Dissolved Oxygen
13. "EPA" Environmental Protection Agency
14. "ERP" Enforcement Response Plan
15. "FOG" Fats, Oils and Grease
- ~~16. "FROG" Fats, Roots, Oil and Grease~~
- ~~17.~~16. "gpd" Gallons per Day
- ~~18.~~17. "gpm" Gallons per Minute
- ~~19.~~18. "IU" Industrial User
- ~~20.~~19. "IRWD" Irvine Ranch Water District
- ~~21.~~20. "lb/day" Pounds Per Day
- ~~22.~~21. "JPA" Joint Powers Authority

23-22. "LEL"	Lower Explosive Limit
24-23. "MA"	Member Agency
25-24. "MGD"	Million Gallons Per Day
26-25. "MSDS"	Material Safety Data Sheet
27-26. "NAICS"	North America Industry Classification System
28-27. "NPDES"	National Pollutant Discharge Elimination System
29-28. "NSCIU"	Non-Significant Categorical Industrial User
30-29. "O&G"	Oil and Grease
31-30. "PCBs"	Polychlorinated Biphenyls
32-31. "POTW"	Publicly Owned Treatment Works
33-32. "PSES"	Pretreatment Standards for Existing Sources
34-33. "PSNS"	Pretreatment Standards for New Sources
35-34. "RCRA"	Resource Conservation and Recovery Act
36-35. "RWQCB"	Regional Water Quality Control Board
37-36. "SOCWA"	South Orange County Wastewater Authority
38-37. "SIU"	Significant Industrial User
39-38. "SNC"	Significant Non-Compliance
40-39. "SWRCB"	State Water Resources Control Board
41-40. "TDS"	Total Dissolved Solids
42-41. "TOC"	Total Organic Carbon
43-42. "TOMP"	Toxic Organic Management Plan
44-43. "TRC"	Technical Review Criteria
45-44. "TSS"	Total Suspended Solids
46-45. "TTO"	Total Toxic Organics
47-46. "U.S.C."	United States Code
48-47. "mg/L"	Milligrams per Liter (0.001)

49-48. "ug/L"	Microgram per Liter	(0.000001)
50-49. "ng/L"	Nanograms per Liter	(0.000000001)
51-50. "pg/L"	Picograms pre-per Liter	(0.000000000001)

**ARTICLE 3
AUTHORITIES AND POWERS**

3.01 AUTHORITY

- A. ~~The~~ IRWD is regulated by Agencies of the United States Federal Government and the State under provisions of federal and state law. Federal law requires SOCWA and ~~the~~ IRWD and the state grants ~~the~~ IRWD the authority to regulate and/or prohibit the discharge of any waste, directly or indirectly, to SOCWA's or IRWD's sewerage facilities by adoption of ordinances, resolutions, ~~and~~ issuance of wastewater discharge permits or other control mechanisms, ~~the discharge of any waste, directly or indirectly, to SOCWA's or the IRWD's sewerage facilities.~~ That authority includes, but is not limited to, the right to establish local limits, conditions, prohibitions, flow rates, ~~to~~ prohibit flows discharged to ~~the~~ IRWD's sewerage facilities, ~~;~~ and to enforce federal, state and local requirements. This may require the implementation of compliance schedules for the installation of flow monitoring equipment by users and for ~~the~~ IRWD to take all actions necessary to enforce its authority, whether within or outside IRWD's service area, including those users that are tributary to ~~the~~ IRWD or within areas for which ~~the~~ IRWD has contracted to provide sewerage facility services.
- B. ~~The IRWD~~ IRWD has the authority under California Health and Safety Codes 5471 and 5474 to prescribe, revise, and collect all regulatory fees and to charge for services and sewerage facilities furnished by ~~the IRWD~~ IRWD and/or SOCWA either within or without its service area.
- C. Administration and enforcement of the pretreatment program may be carried out on a daily basis by any individual and/or combination of IRWD personnel as granted by an interjurisdictional agreement under the oversight of SOCWA. However, SOCWA retains the authority to assume, at any time, administrative and enforcement powers of the pretreatment program requirements within ~~the IRWD~~ IRWD jurisdiction.
- D. ~~The~~ IRWD shall have the authority to seek enforce compliance with 40 CFR 403, its NPDES permit and the provisions of this ordinance by, but not limited to, the following:
 - 1. Issuinge WD permits.
 - 2. Requiring e-the installation of pretreatment equipment.
 - 3. Requiringe the installation of monitoring and/or sampling equipment and/or structures.
 - 4. Requiringe self-monitoring and reporting of the user's discharge.

5. Requiringe the implementation of spill containment plans.

3.02 **DELEGATION OF AUTHORITY**

Whenever any authority or power is granted to or a duty imposed upon the General Manager, that authority or power may be exercised or that duty may be performed by a person authorized by the General Manager. **ENFORCEMENT POWERS**

- A. Enforcement action against a user for being in non-compliance with ~~the any~~ provision of this ordinance may include, but is not limited to, the following:
 1. Issuing a Warning Notice of Non-compliance letter.
 2. Issuing a notice of non-compliance (NON) form.
 3. Issuing a notice of violation (NOV) form.
 4. Issuing an administrative order (AO) which may also include, but ~~are is~~ not limited to, the following types of orders:
 - a. Probation Order (PO)
 - b. Show Cause Order (SCO)
 - c. Cease and Desist Order (CDO)
 5. Petitioning the courts for injunction or civil penalties.
 6. Signing criminal complaints.
 7. Suspension or revocation of an issued wastewater discharge permit or other control mechanism.
 8. Termination of services.
 9. Bringing Aaadministrative complaints.
- B. The ~~issuance~~initiation of an enforcement action shall not be a bar against, or a prerequisite for, taking any other enforcement action against the user.

ARTICLE 4 ADMINISTRATION

4.01 **BY IRVINE RANCH WATER DISTRICT (IRWD)**

- A. ~~The IRWD~~IRWD may shall implement pretreatment and source control programs in accordance with federal, state, and SOCWA regulations, the provisions of this ordinance, and any interjurisdictional agreements.

- B. If ~~the IRWD~~IRWD desires to perform its own pretreatment and source control program, it shall do so pursuant to the interjurisdictional agreement with SOCWA, under the oversight of SOCWA.
- C. ~~The IRWD~~IRWD, when operating its own pretreatment and source control program, shall keep SOCWA apprised of all activities on a regular and consistent basis. This may be accomplished by, but not limited to, correspondence, meetings and submittal of periodic reports.
- D. ~~The IRWD~~IRWD shall have the authority to use fees and charges provided for within this ordinance when a user is in non-compliance.
- E. ~~The IRWD~~IRWD shall provide SOCWA any and all information and submittals by users for review and central filing.
- F. ~~The IRWD~~IRWD, which ~~may~~operates its own sewerage facilities, shall coordinate with SOCWA ~~the to~~establishment of technically-technically-based local limits. These limits shall be established in accordance with section 4.02 H. of this ordinance. These limits are to ensure that any user's effluent that is discharged to sewerage facilities does not cause, ~~but is not limited to, any of~~ the following:
 - 1. Upset, pass through or interference of the biological treatment process.
 - 2. Upset, pass through or interference of the sludge digestion process.
 - 3. Reclaimed or recycled water or generated biosolids to be unable to meet regulatory standards for beneficial reuse or unlimited distribution as defined by regulatory agencies.
 - 4. Violation of any IRWD or SOCWA NPDES permit limitations.
 - 5. Pass-through or interference causing ~~the IRWD~~IRWD or SOCWA to violate any discharge limits of the SOCWA Ocean Outfalls.

4.02 ~~402~~ BY SOCWA

- A. SOCWA has the authority to implement pretreatment and source control programs in accordance with federal and state regulations ~~and the provisions of this ordinance, SOCWA's pretreatment and source control ordinance and interjurisdictional agreements with the MAs.~~
- B. SOCWA has the authority to approve all forms used in the pretreatment and source control program.
- C. SOCWA has the authority to, at any time, assume administration and enforcement of this ordinance within the service area of ~~the IRWD~~IRWD.
- D. SOCWA has the authority to locate and terminate any non-compliant discharge that is not discontinued, upon notification that a non-compliant discharge is occurring.

- E. SOCWA has the authority to review all applications, wastewater discharge permits, other control mechanisms and any enforcement actions that have been taken.
- F. SOCWA has the authority to review all ordinances pertaining to pretreatment and source control programs before adoption or implementation by ~~the IRWD~~IRWD.
- G. SOCWA has the authority to audit ~~the IRWD~~IRWD when performing its own pretreatment and source control program.
- H. SOCWA shall oversee the establishment of technically based local limits for ~~the IRWD~~IRWD. A review of the local limits may be conducted every five years or in conjunction with the renewal of SOCWA's NPDES Permits.

4.03 PROGRAM ENFORCEMENT

- A. ~~The~~IRWD shall have first priority to enforce the regulations contained within this ordinance in accordance with, but not limited to, the following:
 - 1. SOCWA shall conduct the pretreatment and source control program for ~~the~~IRWD unless otherwise directed by the interjurisdictional agreement with ~~the~~IRWD.
 - 2. When ~~the~~IRWD is performing its own program it shall inform SOCWA of all program activity.
 - 3. ~~The~~IRWD when performing its own program shall conduct routine sampling of permitted users for constituents the industry must sample and analyze for as part of their self-monitoring program, and inform SOCWA of such activity.

4.04 APPLICATIONS

All applications for wastewater discharge permits ~~may~~will be reviewed by ~~the~~IRWD and SOCWA.

4.05 WASTEWATER DISCHARGE (WD) PERMITS

- A. All proposed WD Permits ~~may~~will be reviewed by ~~the IRWD~~IRWD and SOCWA before being issued to the user.
- B. All issued WD Permits shall be signed, identified and/or numbered by ~~the IRWD~~IRWD or SOCWA.

4.06 INSPECTIONS, MONITORING AND ENFORCEMENT

- A. SOCWA shall be notified by ~~the IRWD~~IRWD when inspecting, monitoring, or enforcement activities will or have already occurred. This may be done by, but not limited to, the following:
 - 1. Phone contact or correspondence.
 - 2. Submittal of written schedule reports or status reports.

- B. Emergency enforcement actions by ~~the IRWD~~IRWD shall be reported to SOCWA by phone within twenty-four (24) hours during weekdays and within seventy-two (72) hours during weekends, and by written report within five (5) days of their notice to the user.

4.07 FUNDING

- A. ~~Upon Subject to~~ review by SOCWA, ~~the~~IRWD may establish a schedule of wastewater discharge permit application fees, annual fees, sample analysis charges, and any other fees or charges required to recover reasonable costs of implementing a pretreatment and source control program.
- B. ~~The industrial user shall pay IRWD for all c~~Costs incurred by ~~the IRWD~~IRWD for its pretreatment activity may be collected by, ~~but not limited to~~upon invoice, ~~ing directly to the industrial user.~~

4.08 APPEALS

- A. ~~The~~IRWD shall have first priority to handle appeals in accordance with the provisions of this ordinance.
 - 1. Appeals ~~of a~~ staff action shall be directed to the General Manager.
 - 2. Appeals ~~of a~~ the General Manager's action shall be directed to the Board.
 - 3. Actions by the Board shall be final.
- B. SOCWA shall have the authority to handle appeals where ~~the IRWD~~IRWD ~~lacks sufficient~~has no jurisdiction, or fails to enforce against a user in accordance with the provision of this ordinance or the interjurisdictional agreements.

ARTICLE 5 GENERAL DISCHARGE PROHIBITIONS AND LIMITATIONS

5.01 PROHIBITED DISCHARGES

- A. These prohibitions apply to all users of sewerage facilities whether or not they are subject to categorical pretreatment standards or any other national, State or local pretreatment standards or requirement.
- B. No user shall discharge directly or indirectly a quality or quantity of wastes, solids, viscous substances, wastewater or pollutants to sewerage facilities, either alone or by interaction with other substances, which cause or will cause:
 - 1. Obstruction of flow.
 - 2. Pass through or interference.
 - 3. Inhibition of biological activity.
 - 4. The final effluent to fail a toxicity test.

5. Corrosive or physical structural damage to sewerage facilities.
6. Danger to life and/or safety of any person.
7. Impairment of the effective maintenance or operation of any sewerage facility.
8. A fire or explosion hazard based upon a closed cup flashpoint of less than 140 degrees Fahrenheit (60°C) using the test method specified in 40 CFR 261.21.
9. The presence of toxic gases, vapors, fumes, or poisonous, noxious or malodorous gas producing substances that may cause acute worker health and safety problems.
10. Any product of any sewerage facility including, but not limited to the final effluent ,biosolids, residue, sludge, or scum to be unsuitable for reclamation, reuse, or disposal.
11. Discoloration or any other condition which affects the quality of the final effluent in such a manner that discharge requirements established by regulatory agencies cannot be met.
12. Conditions which violate any statute, rule, regulation, or ordinance of any public agency or regulatory agency having jurisdiction over the discharge of wastewater through sewerage facilities.
13. The discharge of petroleum oil, nonbiodegradable cutting oil, or products of mineral oil origin, which cause interference or pass through.

5.02 PROHIBITION ON DILUTION

Except where expressly authorized to do so by an applicable standard, no user shall discharge directly or indirectly to sewerage facilities an increase in the use of water to attempt to dilute a waste being discharged, as a partial or complete substitute for treatment to achieve compliance with this ordinance, a wastewater discharge permit, other control mechanism or to establish an artificially high flow rate for mass emission rates.

5.03 PROHIBITION ON BIOHAZARDOUS WASTE

No user shall discharge directly or indirectly to sewerage facilities a biohazardous waste without rendering it non-biohazardous prior to discharge if the biohazardous waste is deemed to pose a threat to public health and safety or will result in any violation of applicable waste discharge requirements.

5.04 PROHIBITION ON TOXIC OR HAZARDOUS WASTE

No user shall discharge directly or indirectly to sewerage facilities, any substance that is defined as a toxic or hazardous waste by regulatory agencies, except those wastes which meet the requirements of 40 CFR 403.

5.05 PROHIBITION ON WARFARE AGENTS

No user shall discharge directly or indirectly to sewerage facilities any radiological, chemical, or biological warfare agent.

5.06 LIMITATIONS ON DISPOSAL OF SPENT SOLUTIONS AND SLUDGES

- A. Any spent solutions, sludges, and/or other wastes generated by the user that are a hazardous waste and not treated on site shall be hauled by a registered hazardous waste transporter. The user shall complete and maintain a hazardous waste manifest that documents the removal and transport of the waste.
- B. All hazardous waste manifests shall be retained for a minimum of three (3) years and shall be made available to ~~the IRWD~~IRWD upon request. ~~The IRWD~~IRWD may require a longer period of retention if litigation is being considered.
- C. No user shall batch dump to sewerage facilities without written approval from ~~the IRWD~~IRWD.

5.07 LIMITATIONS ON THE USE OF GRINDERS

Wastes from industrial or commercial grinders shall not be discharged into a sewerage facility, except wastes generated in packing or preparing food or food products on a case by case ~~bases-basis~~ as approved by ~~the IRWD~~IRWD. Such grinders must shred the waste to a degree that all particles will be carried freely under normal flow conditions prevailing in the sewerage facilities.

5.08 LIMITATION ON RAINWATER, STORMWATER, AND STREET DRAINAGE

No user shall discharge or cause to be discharged directly or indirectly into sewerage facilities any rainwater, stormwater, or street drainage that exceeds the first one-tenth (1/10) of an inch of precipitation from any storm event.

5.09 LIMITATIONS ON GROUNDWATER AND SUBSURFACE DRAINAGE

- A. Groundwater and subsurface drainage shall not be discharged directly or indirectly to sewerage facilities except as provided herein.
- B. IRWD may approve the discharge of such water, by wastewater discharge permit or other control mechanism only, when no alternate method of disposal is reasonably available or to mitigate an environmental risk or health hazard.
- C. The discharge of such water shall require the following:
 - 1. A Class IV Special Wastewater Discharge Permit or other control mechanism issued by ~~the IRWD~~IRWD, and
 - 2. Documentation from the user or user's consultant that all other alternate methods of disposal have been exhausted, and
 - 3. User shall pay all applicable fees and charges and shall meet any other conditions as required by ~~the IRWD~~IRWD.

5.10 LIMITATIONS ON TRUCKED OR HAULED WASTES

- A. No user shall discharge trucked or hauled wastes directly or indirectly to sewerage facilities without written approval from ~~the IRWD~~IRWD and SOCWA. Written approval may be in the form of an individual special wastewater discharge permit or other control mechanism.
- B. No user shall transport waste from one location to another for the purpose of treating or discharging it directly or indirectly to sewerage facilities without written approval from ~~the IRWD~~IRWD and SOCWA. Written approval may be in the form of an individual special wastewater discharge permit or other control mechanism.

5.11 LIMITATIONS ON POINT OF DISCHARGE

No user shall discharge any wastewater directly or indirectly into a manhole or other opening in a sewerage facility other than through an approved building sewer unless approved in writing by ~~the IRWD~~IRWD.

5.12 LIMITATIONS ON RADIOACTIVE WASTES

- A. No user shall discharge directly or indirectly to sewerage facilities any radioactive waste except as provided herein follows:
 - 1. When the user is authorized to use radioactive materials by the California Department of Public Health ~~State Department of Health~~ or other governmental agency empowered to regulate the use of radioactive materials, and
 - 2. When the waste is discharged in strict conformity with current California Radiation Control Regulations (Cal. ~~Adm.~~ Code Regs. Title 17) for safe disposal, and
 - 3. When the user is in compliance with all other rules and regulations of all other applicable regulatory agencies.

5.13 LIMITATIONS ON UNPOLLUTED WATER

- A. Unpolluted water such as deionized, steam waste, distilled, single pass cooling water in excess of laboratory usage, blow-down or bleed water from cooling towers, or other evaporating coolers, or commercial swimming pool water drainage shall not be discharged directly or indirectly to sewerage facilities except as provided herein.
- B. ~~The IRWD~~IRWD may approve the discharge of such water when no alternate method of disposal or reuse is reasonably available or there is need to mediate an environmental risk or health hazard.
- C. The discharge of such water shall require the following:
 - 1. A Class IV Special Wastewater Discharge Permit or other control mechanism, and

2. Documentation from the user or user's consultant that all other alternate methods of disposal have been exhausted, and
3. User shall pay all applicable fees and charges and shall meet any other conditions as required by ~~the IRWD~~IRWD.

5.14 MASS EMISSION LIMIT DETERMINATION

- A. Mass emission limits for non-compatible and compatible wastes that are present or anticipated in the user's wastewater discharge may be set for each user and made an applicable part of each user's wastewater discharge permit or other control mechanism. These limits shall be based on Table I, local limits or national pretreatment standards and the user's average daily wastewater discharge for the past three (3) years, the most recent representative data, or other data acceptable by ~~the IRWD~~IRWD.
- B. To verify the user's operating data, the user may be required to submit an inventory of all wastewater streams and production data.
- C. ~~The IRWD~~IRWD may revise local limit concentration limits or mass emission limits previously established in the user's wastewater discharge permit or other control mechanism at any time, based on current and/or anticipated operating data, the ability to meet NPDES Limits, and/or changes in the requirements of regulatory agencies.
- D. The increased use of water to establish an artificially high flow rate data base for mass emission limit determinations is prohibited.

5.15 WASTEWATER STRENGTHS AND CHARACTERISTICS

- A. No user shall discharge wastewater directly or indirectly to sewerage facilities with the following strengths and characteristics:
 1. Having a temperature higher than 140 degrees Fahrenheit (60 degrees Centigrade) or which causes the temperature at the influent to a wastewater treatment plant to exceed 104 degrees Fahrenheit (40 degrees Centigrade).
 2. Containing substances that may precipitate, solidify, or become viscous at temperatures between 50 degrees Fahrenheit (10 degrees Centigrade) and 104 degrees Fahrenheit (40 degrees Centigrade).
 3. Containing materials which will readily settle or cause an obstruction to flow in sewerage facilities or be detrimental to the proper operation of a sewerage facility. These materials may include, but are not limited to, asphalt, concrete, dead animals, offal ashes, sand, mud, straw, industrial process shavings, metal, glass, rags, feathers, tar, plastics, wood, whole blood, bones, hair, coffee grounds, egg shells, flashings, diatomaceous earth, seafood shells, and paper products not intended for use in sewerage facilities.
 4. Producing a gaseous mixture that is ten percent (10%) or greater of the lower explosive limit (LEL). Prohibited materials include, but are not limited to, gasoline, kerosene, naphtha, benzene, toluene, xylene, ethers, ketones, and alcohols.

5. Having a pH less than 5.0 or greater than 11.0.
6. Containing recognizable portions of human or animal anatomy. Containing excessive flow, constituents or other materials, including but not limited to, biological oxygen demand, chemical oxygen demand, total organic carbon, toxic pollutants, suspended solids, grease and oil of animal or vegetable origin total dissolved solids, detergents, surface active agents, phenolic compounds or other substances that are released in a discharge at a flow rate and/or concentration which will cause problems, pass-through or interference with sewerage facilities.
8. Containing PCBs in excess of 0.01 mg/L as a daily maximum.
9. Containing pesticides in excess of 0.01 mg/L as a daily maximum.
10. Violation of any applicable national pretreatment standards, state standards, or other local regulations covering wastewater disposal.

5.16 SPECIFIC LOCAL LIMITS

- A. IRWD in coordination with SOCWA is authorized to establish local limits pursuant to 40 CFR 403.
- B. No user shall discharge directly or indirectly a quality or quantity of wastes or wastewater containing toxic pollutants, non-compatible or compatible wastes in excess of Table I, Specific Local Limits. All local limits for the metal pollutants are for the “total metal” amount analyzed, unless indicated otherwise.

Table I

Specific Local Limits

Pollutant	Limit (mg/L)
Arsenic	3.4
Cadmium	0.93
Chromium	4.9
Copper	7.2
Lead	4.9
Mercury	0.19
Nickel	9.5
Silver	2.8
Zinc	7.9
Cyanide	4.3
Oil and Grease	300

- C. Local limits are subject to more stringent standards as established by national pretreatment standards. Local limits are deemed to be pretreatment standards for the purposes of Section 307(d) of the Act, and are enforceable under Section 309 of the Act, potentially subjecting an IU to a penalty of \$25,000 per day for each violation.
- D. ~~The IRWD~~IRWD may place more stringent standards within any wastewater discharge permit or other control mechanism issued to a user at any time, based on current and/or

anticipated operating conditions presented in the wastewater discharge permit application, the ability to meet NPDES permit limits, and/or changes in the requirements of regulatory agencies.

- E. ~~The IRWD~~IRWD may develop Best Management Practices (BMPs) for use in any wastewater discharge permit or other control mechanism to implement local limits and the requirements in this ordinance.

5.17 **STATE REQUIREMENTS**

Upon the adoption of any state requirements on user discharges that are more stringent than federal requirements or the limitations contained in this ordinance, that state standard shall then immediately supersede the federal standard and the limitations of this ordinance.

5.18 **FEDERAL REQUIREMENTS**

- A. Upon adoption of a national pretreatment standard more stringent than those contained in this ordinance, the federal standard shall immediately supersede the limitations listed in this ordinance and the affected significant industrial users shall be notified of the new standards and applicable reporting requirements.
- B. The significant industrial user shall comply with the national pretreatment standard within the time provided in the federal regulations that establish such standards even if their wastewater discharge permit has not yet been modified to incorporate the new requirement or standards.
- C. The significant industrial user shall comply with any applicable requirements under Sections 204(b) and 405 of the Act and Subtitles C and D of the RCRA.

ARTICLE 6 WASTEWATER DISCHARGE PERMITS

6.01 **WRITTEN AUTHORIZATION**

- A. Users may be required to obtain written authorization to use sewerage facilities. This written authorization may be in the form of a wastewater discharge permit or other control mechanism issued by ~~the~~IRWD. No vested right shall be given or be granted by issuance of a wastewater discharge permit or other control mechanism as provided for in this ordinance.
- B. When written authorization is granted, all the types of wastewater discharge permits and any other control mechanisms shall be expressly subject to all provisions of this ordinance and all other regulations, charges for use and fees established by ~~the~~IRWD. The requirements contained in wastewater discharge permits or other control mechanisms are subject to enforcement under this ordinance and under state and federal law.

- C. All users that have obtained written authorization shall discharge their process wastewater only as provided for by their wastewater discharge permit or other control document.
- D. Compliance with wastewater discharge permit or other control mechanism provisions does not relieve the user from complying with any other applicable federal, state or local requirement.

6.02 TYPES OF WASTEWATER DISCHARGE PERMITS

- A. The wastewater discharge permit may be in one of four (4) types and is dependent upon process, volume and pollutant characteristics of the users discharge. The four types of wastewater discharge permits are:
 - 1. Class I – Wastewater Discharge (WD) Permit.
 - 2. Class II – Wastewater Discharge (WD) Permit.
 - 3. Class III – Wastewater Discharge (WD) Permit.
 - 4. Class IV – Special Wastewater Discharge (SWD) Permit.

6.03 TRANSFER PROHIBITION

Wastewater discharge permits issued under this ordinance are for a specific user, for a specific operation at a specific location. Wastewater discharge permits shall not be transferred for an operation at a different location.

6.04 CHANGE OF OWNERSHIP

- A. Upon the sale or transfer of ownership of any business operating under a wastewater discharge permit issued by ~~the IRWD~~IRWD, the user shall notify ~~the IRWD~~IRWD in writing prior to the change of ownership. The successor owner shall be required to apply for a new wastewater discharge permit prior to the sale or transfer of ownership.
- B. In the event that the original owner fails to notify ~~the IRWD~~IRWD of the sale or transfer of ownership than said original owner may be jointly liable for any charges incurred by the new owner.
- C. This does not relieve the new owner of any liability for non-compliance with any federal, state, or local regulations or the provisions of this ordinance.

6.05 EXCESS CAPACITY REGULATORY FEE

New users or existing users that expand operations that require substantial sewerage facility capacity may be subject to an excess capacity sewerage facility regulatory fee in an amount and method to be solely determined by ~~the IRWD~~IRWD on a case-by-case basis.

6.06 OUT OF SERVICE AREA WASTEWATER DISCHARGE PERMITS

Wastewater discharge permits for users located outside of ~~the IRWD~~IRWD's service area but tributary to ~~the IRWD~~IRWD's sewerage facilities shall only be issued after approval by ~~the~~

~~IRWD~~IRWD. Inspection and sampling of the user's discharge to determine compliance with discharge regulations will be made under a coordinated plan developed by SOCWA, ~~the IRWD~~IRWD and the local sewerage agency. The more stringent discharge regulations and effluent limitations of affected agencies shall apply to the user. The fees for use shall be determined by ~~the IRWD~~IRWD and set forth in an interjurisdictional agreement.

6.07 REQUIRED INFORMATION

- A. To provide for the equitable use of sewerage facilities, and as a condition of continued usage of the sewerage system, the upon request by IRWD, shall have the right to require a user ~~to shall~~ provide all information necessary to maintain compliance with the provisions of this ordinance, including treatability studies to determine whether the wastewater would be compatible with all sewerage facilities. This information shall include, but is not limited to the following:
1. Wastewater discharge flow rates, peak flow rates and volume over any period of time.
 2. Physical, chemical or bacteriological analysis of wastewater.
 3. Information on raw materials, processes and products.
 4. Quantity, disposition and waste manifests of specific liquids, sludge, oil, solvent or other materials.
 5. Details of any pretreatment equipment.
 6. Details of systems to prevent and control the loss of material through spills and slug discharges.
 7. Review of all types of water bills.

6.08 CONFIDENTIAL INFORMATION

All user information and data on file with IRWD shall be available to the public and governmental agencies without restriction, unless the user specifically requests and is able to demonstrate to the satisfaction of ~~the IRWD~~IRWD that the release of such information would divulge information, processes or methods which would be detrimental to the user's competitive position. The demonstration of the need for confidentiality made by the user must meet the burden necessary for withholding such information from the general public under applicable state and federal law. Any such claim must be made at the time of submittal of the information by marking "Confidential Business Information" on each page containing such information within the submittal. Information which is demonstrated to be confidential shall not be transmitted to any governmental agency without prior notification to the user. Information concerning wastewater quality and quantity shall not be recognized as confidential information and shall be available to the public without reservation.

6.09 CLASS I – WASTEWATER DISCHARGE (WD) PERMIT

No user requiring a Class I WD Permit shall discharge wastewater without obtaining a Class I WD Permit. A Class I user, as determined by ~~the IRWD~~IRWD, proposing to discharge directly or

indirectly into a sewerage facility shall obtain a WD Permit by filing an application and paying any applicable fees before discharging.

6.10 CLASS II – WASTEWATER DISCHARGE (WD) PERMIT

No user requiring a Class II WD Permit shall discharge wastewater without obtaining a Class II WD Permit. A Class II user, as determined by ~~the IRWD~~IRWD, proposing to discharge directly or indirectly into a sewerage facility shall obtain a WD Permit by filing an application and paying any applicable fees before discharging.

6.11 CLASS III – WASTEWATER DISCHARGE (WD) PERMIT

No user requiring a Class III WD Permit shall discharge wastewater without obtaining a Class III WD Permit. A Class III user, as determined by ~~the IRWD~~IRWD, proposing to discharge directly or indirectly into a sewerage facility shall obtain a WD Permit by filing an application and paying any applicable fees before discharging.

6.12 CLASS IV – SPECIAL WASTEWATER DISCHARGE (SWD) PERMIT

- A. No user requiring a Class IV SWD Permit shall discharge wastewater without obtaining a Class IV SWD Permit. A Class IV user, as determined by ~~the IRWD~~IRWD, proposing to discharge directly or indirectly into a sewerage facility shall obtain a SWD Permit by filing an application and paying any applicable fees before discharging.
- B. The SWD Permit may be issued when no alternative method of disposal is reasonably available or to mitigate an environmental risk or health hazard.
- C. A user proposing to discharge diverted urban nuisance water may be issued a nuisance special wastewater discharge (NSWD) Permit only after they have completed the requirements contained in ~~the IRWD~~IRWD and SOCWA “Nuisance Flow Diversion Policy.”
- D. A user proposing to discharge trucked or hauled wastes may be issued a hauled special wastewater discharge (HSWD) Permit only after they have completed all requirements set forth by ~~the IRWD~~IRWD on a case by case basis. All trucked or hauled waste users shall comply with the terms, conditions and limitation set forth in a HSWD Permit as determined by ~~the IRWD~~IRWD to be necessary to protect sewerage facilities. A trucked or hauled waste user proposing to discharge waste into a IRWD or SOCWA sewerage facility may be required to obtain both a valid Orange County Health Department permit (where applicable) and a HSWD Permit prior to any discharge.

6.13 NON-INDUSTRIAL WASTEWATER DISCHARGE (NIWD) FORM

- A. At the sole discretion of ~~the IRWD~~IRWD, any user that is considered to have wastewater of no concern discharging to sewerage facilities may be classified as an NIWD user and issued an NIWD form.
- B. Any user that has had a Class I, II, or III WD Permit that no longer has a discharge containing noncompatible wastes to ~~the IRWD~~IRWD's sewerage facilities may be classified as an NIWD user and issued an NIWD form.

- C. The main functions of the NIWD form are to assist in maintaining ~~the IRWD~~IRWD's user survey data base and to track and verify by inspection any user that is considered to have wastewater of no concern discharging to sewerage facilities.

6.14 APPLICATION FOR WASTEWATER DISCHARGE PERMIT

- A. Users required to obtain a WD Permit shall complete and file with ~~the IRWD~~IRWD, prior to commencing discharge, if applicable, an application on a form prescribed by ~~the IRWD~~IRWD.
- B. Users seeking a WD Permit may be required to submit, in unit and terms appropriate for evaluation, the following information:
 - 1. Name, address of the site, NAICS numbers (if applicable), and a description of the manufacturing process or service activity.
 - 2. Name, address of any and all, (whichever is applicable) principals/owners/major share holders of company; articles of incorporation; most recent report of the Secretary of State and business license.
 - 3. Flow, volume, time, duration and type of wastewater to be discharged.
 - 4. Name, address and contact information of the individual who shall serve as the CAR.
 - 5. Name and address of property owner, landlord and/or manager of the property.
 - 6. Water supplier and water account numbers. Wastewater constituents and characteristics as required or deemed necessary by ~~the IRWD~~IRWD, including but not limited to, those mentioned in this ordinance. These constituents and characteristics shall be determined by a laboratory of the discharger approved by ~~the IRWD~~IRWD.
 - 8. Number of employees and average hours of work per employee per day.
 - 9. Waste minimization, best management practices and water conservation practices.
 - 10. All production records, if applicable.
 - 11. Waste manifests, if applicable.
 - 12. Tons of cooling tower capacity, if applicable.
 - 13. List of other environmental control permits and EPA Hazardous Waste Generator number, if applicable.
 - 14. Application signed by CAR of the user and contains the certification statement in Section 802.E
 - 15. Any other information as specified.

- C. Users may be required to submit site floor, mechanical, plumbing, toxic organic management, and spill containment plans for evaluation.
- D. After evaluation of the data furnished, ~~the IRWD~~IRWD may issue a WD Permit, a NIWD Form or other control mechanism subject to the terms and conditions set forth in this ordinance and as otherwise determined by the General Manager to be necessary to protect sewerage facilities.
- E. The WD Permit application may be denied if the user fails to establish to IRWD's satisfaction that adequate pretreatment equipment is included within the user's plans to ensure that the discharge limits will be met or if the user has, in the past demonstrated an inability to comply with applicable discharge limits or has in the past demonstrated an inability to keep current with invoices for the items such as WD Permit fees, noncompliance fees, civil penalties, administrative civil penalties or charge for use.

6.15 APPLICATION FOR SPECIAL WASTEWATER DISCHARGE PERMIT

- A. Users required to obtain a SWD Permit shall complete and file with ~~the IRWD~~IRWD, prior to commencing discharge, if applicable, an application on a form prescribed by ~~the IRWD~~IRWD.
- B. Users seeking a SWD Permit may be required to submit, in unit and terms appropriate for evaluation, the following information:
 - 1. Name, address and a description of the wastewater to be discharged.
 - 2. Name, address and contact information of the individual who shall serve as the CAR.
 - 3. Volume, time and duration of wastewater to be discharged.
 - 4. Construction and plumbing plans, if applicable.
 - 5. Detailed analysis of the alternatives for wastewater disposal, if applicable.
 - 6. Wastewater constituents and characteristics as required or deemed necessary by ~~the IRWD~~IRWD, including but not limited to, those mentioned in this ordinance. These constituents and characteristics shall be determined by a laboratory selected by the user acceptable to ~~the IRWD~~IRWD.
 - 7. Any other data as specified.
- C. Users may be required to submit site, mechanical, plumbing, toxic organic management, and spill containment plans for evaluation if applicable.
- D. After evaluation of the information furnished, IRWD may issue a SWD Permit or other control mechanism subject to the terms and conditions set forth in this ordinance and as otherwise determined by the General Manager to be necessary to protect sewerage facilities.

- E. In the case of diverted urban nuisance water, after evaluation of the information furnished, IRWD may issue a NSW Permit, subject to the terms and conditions set forth in this ordinance and the “Nuisance Flow Diversion Policy” as otherwise determined by the General Manager to be necessary to protect sewerage facilities.
- F. The SWD Permit application may be denied if the user fails to establish to IRWD’s satisfaction that adequate pretreatment equipment is included within the user’s plans to ensure that the discharge limits will be met or if the user has, in the past demonstrated an inability to comply with applicable discharge limits or has in the past demonstrated an inability to keep current with invoices for items such as SWD Permit fees, non-compliance fees, civil penalties, administrative civil penalties or charges for use .

6.16 APPLICATION FOR NON-INDUSTRIAL WASTEWATER DISCHARGE (NIWD) FORM

- A. Users meeting the criteria for a NIWD form may be asked to complete and file with ~~the IRWD~~IRWD an application on a form prescribed by ~~the IRWD~~IRWD.
- B. Information on users that meet the criteria for a NIWD form may be obtained solely by ~~the IRWD~~IRWD during site inspections or by other means.
- C. After evaluation of the data furnished by the user or from information collected solely by ~~the IRWD~~IRWD an NIWD form may be issued.

6.17 WASTEWATER DISCHARGE PERMIT TERMS, CONDITIONS, AND LIMITATIONS

- A. All wastewater discharge permits shall be expressly subject to all terms, conditions, and limitations of this ordinance, other regulatory agencies, Best Management Practices, charge for use, and fees established by ~~the IRWD~~IRWD. The terms, conditions, and limitations in a WD Permits are subject to enforcement by ~~the IRWD~~IRWD in accordance with this ordinance, and applicable state and federal regulations. Any WD Permit violation shall be a violation of this ordinance.
- B. The terms, conditions, and limitations of any issued WD Permit may be subject to modification and changes by ~~the IRWD~~IRWD during the life of the WD Permit based on:
 - 1. The discharger’s current or anticipated operating data.
 - 2. ~~The IRWD~~IRWD’s current or anticipated operating data.
 - 3. Changes in the requirements of regulatory agencies.
- C. Users may request a modification to the terms, conditions, and limitations of an issued WD Permit. The request shall be in writing stating the requested change, and the reasons for the change. ~~The IRWD~~IRWD shall review the request, make a determination and respond in writing. A request for a wastewater discharge permit modification does not relieve a user from complying with its existing WD Permit terms, conditions and limitations.
- D. Any changes to the terms, conditions or limitations in a WD Permit shall include a reasonable time schedule for compliance where allowed under applicable federal, state and local law.

- E. A WD Permit may contain any, but is not limited to, the following terms, conditions and limitations:
1. Effluent limits, including mass emission rates, concentration limits or best management practices based on applicable pretreatment standards for regulated pollutants.
 2. Discharge limits based upon the combined wastestream formula (CWF).
 3. Limits on rate and time of discharge or requirements for flow regulation and equalization.
 4. Requirements for the user to make notification in writing prior to the physical expansion or any change to any wet processes. Notification is also required in the event of changes in production if production-based limits are being applied.
 5. Requirements for the user to construct and maintain, at the user's own expense, pH control, flow monitoring and/or sampling equipment and/or structures.
 6. Requirements for submission of technical reports, discharge reports and waste manifests.
 7. Location of sampling point(s) and the requirements to self-monitor. Requirements for maintaining plant records relating to wastewater discharge and waste manifests as specified by ~~the IRWD~~IRWD.
 9. Predetermined rates or values for wastewater strength characteristics.
 10. Requirements to submit copies of water bills.
 11. Other provisions which may be applicable to ensure compliance with this ordinance.
 12. Other terms, conditions and limitations determined by ~~the IRWD~~IRWD to be necessary to protect sewerage facilities.
 13. Predetermined rate or value for BOD and suspended solids.
 14. Requirements for notification of bypass discharges.
 15. Requirements for notification of any new introduction of wastewater constituents or any substantial change in the volume or character of wastewater constituents.
 16. Requirements to meet compliance schedules.
 17. Requirements for the user to control slug discharges by developing and implementing a slug discharge control plan if determined by ~~the IRWD~~IRWD to be necessary as described in 40 CFR 403.8(f)(1)(iii)(B)(6).
 18. Requirements for the user to control toxic organic discharges by developing and implementing a toxic organics management plan if determined by ~~the IRWD~~IRWD to be necessary.

6.18 WASTEWATER DISCHARGE PERMIT DURATION

All wastewater discharge permits shall not exceed a duration of five (5) years. Any wastewater discharge permit may be issued for a shorter period of time at the sole discretion of ~~the~~ IRWD/IRWD.

6.19 WASTEWATER DISCHARGE PERMIT RENEWAL

- A. The user may file a new application prior to the expiration date of any existing wastewater discharge permit for renewal.
- B. Discharge after the termination date of a wastewater discharge permit is prohibited except:
 - 1. If the user filed a timely renewal application which is complete, and:
 - 2. ~~The IRWD/IRWD~~, through no fault of the user, does not issue a new wastewater discharge permit with an effective date on or before the expiration date of the previous wastewater discharge permit.

6.20 IRWD'S RIGHT OF REVISION

- A. IRWD reserves the right to establish, by ordinance, or by wastewater discharge permit or by Best Management Practices, or by any other control mechanism, more stringent standards or requirements on ~~the discharge of users' discharge~~ to sewerage facilities
- B. The terms, conditions and limitations contained in any WD Permit, Best Management Practices or other control mechanism may be modified by IRWD at any time. This modification shall be by written notification to the user.

**ARTICLE 7
PRETREATMENT EQUIPMENT REQUIREMENTS**

7.01 PRETREATMENT

- A. All pretreatment equipment or devices may be reviewed by ~~the IRWD/IRWD~~. Such review shall not absolve the user of any responsibility of meeting prohibitions, limitations, requirements, standards and local limits on discharges.
- B. User shall provide wastewater treatment as necessary which may include, but is not limited to, the use of best available technology (BAT) or best practicable technology (BPT) concepts to comply with this ordinance and shall achieve compliance with all prohibitions, limitations, standards and local limits before discharging to any sewerage facility. Any equipment required to pretreat, sample, control or transport wastewater shall be provided and maintained in proper operating condition at all times at the user's sole expense.
- C. User may be required to submit waste analysis plans, contingency plans, and meet other requirements to ensure proper operation of pretreatment equipment and compliance with their wastewater discharge permit limits and this ordinance.

- D. No user shall increase the use of water or in any other manner attempt to dilute a discharge as a partial or complete substitute for treatment to achieve compliance with this ordinance, a wastewater discharge permit or other control mechanism.

7.02 **SPILL CONTAINMENT**

- A. Each user shall provide spill containment for protection against the discharge of prohibited materials or other wastes regulated by this ordinance. This protection shall be designed in accordance with reasonable engineering standards to secure the discharges and to prevent them from entering into a sewerage facility. This equipment shall be provided and maintained at the user's sole expense.
- B. If it can be shown that a user's spill containment equipment did not prevent a discharge which caused ~~the IRWD~~IRWD to violate its requirements, incur additional operational expenses, or suffer loss or damage to sewerage facilities, that user shall be responsible for any costs or expenses, including assessment by other agencies or any costs incurred by ~~the IRWD~~IRWD.
- C. A notice may be permanently posted on the user's bulletin board or other prominent place advising employees who to call in the event of a prohibited discharge. Employers shall ensure that all employees who may cause or suffer such a prohibited discharge to occur are advised of the emergency notification procedure.

7.03 **MONITORING AND METERING EQUIPMENT**

- A. The user may be required to construct and maintain in proper operating condition at the user's sole expense, flow and/or constituent monitoring and/or sampling equipment.
- B. Any sample taken from a user's sample point shall be considered to be representative of the discharge to sewerage facilities.
- C. Monitoring or metering equipment may be required to include a security enclosure that can be locked with a IRWD provided lock during any sampling and monitoring periods.
- D. Location of the monitoring or metering equipment shall be subject to approval by ~~the IRWD~~IRWD.
- E. ~~The IRWD~~IRWD shall be provided clear and uninterrupted access to monitoring or metering locations.
- F. When one or more users discharge into a sewerage facility, those users may be required to install a separate monitoring location for each user. Also in the judgment of ~~the IRWD~~IRWD, if there is a significant difference in wastewater constituents and characteristics produced by different operations of a single user, that user may be required to install separate monitoring locations for each operation. Separate monitoring may also be required for different processes subject to categorical pretreatment standards.
- G. Users with the potential to discharge flammable solutions may be required to install and maintain at their sole expense a combustible gas detection meter.

- H. All wastewater samples shall be representative of the user's discharge. Wastewater monitoring and flow measurement equipment shall be operated, kept clean, and maintained in good working order at all times. Failure by the user to keep its monitoring equipment in good working order shall not be grounds for the user to claim that sample results are unrepresentative of its discharge.

7.04 DRAWING SUBMITTALS

- A. Detailed plans of any proposed construction of pretreatment, spill containment, monitoring and metering equipment and operating procedures shall be submitted for review by the due date contained within a written request from ~~the IRWD~~IRWD. The review of the plans and procedures shall in no way relieve the user of the responsibility of modifying the equipment or procedures in the future as necessary to meet the requirements of this ordinance or any other requirement of other regulatory agencies.
- B. All drawings shall include:
 - 1. North arrow.
 - 2. Scale size.
 - 3. User name and address.
 - 4. Date drawn or revised.
 - 5. Location of proposed pretreatment, spill containment, monitoring and metering equipment.
- C. ~~The IRWD~~IRWD may require drawings to scale depicting the manufacturing process (waste generating source), spill containment, pretreatment and/or monitoring or metering equipment.
- D. ~~The IRWD~~IRWD may require a schematic drawing of the pretreatment, spill containment, monitoring and metering equipment.
- E. ~~The IRWD~~IRWD may require the drawings be prepared by a California registered chemical, mechanical, or civil engineer.

7.05 WASTE MINIMIZATION, RECYCLING, AND TREATMENT

- A. User shall provide waste minimization plans to conserve water, investigate product and/or materials substitution, maintain inventory control records and implement employee education, and other steps as necessary to minimize waste produced by the due date contained within a written request from ~~the IRWD~~IRWD.
- B. Waste minimization, recycling and treatment shall be demonstrated wherever feasible in the following priority:
 - 1. Source reduction which includes, but is not limited to, substitution of less hazardous materials, spill prevention and control measures, proper storage and handling of chemicals and raw materials.

2. Recovery and reuse which includes, but is not limited to, substitution of less hazardous materials, spill prevention and control measures, proper storage and handling of chemicals and raw materials.
3. Treatment which includes, but is not limited to, pretreatment techniques as to render hazardous wastes harmless or suitable for disposal to sewerage facilities.

**ARTICLE 8
INSPECTION, MONITORING, SAMPLING,
NOTIFICATION, AND REPORTING REQUIREMENTS**

8.01 INSPECTION AND MONITORING

- A. ~~The IRWD~~IRWD may inspect and sample the wastewater generating and disposal equipment of any user's site to ascertain whether the requirements of this ordinance are being met and the user is complying with all requirements.
- B. Where a user has instituted security measures requiring proper identification and clearance before entry onto the premises, the user shall make all necessary arrangements with its security in order that the inspectors of ~~the IRWD~~IRWD shall be allowed to enter the premises without delay for the purpose of performing their authorized duties.
- C. ~~The IRWD~~IRWD shall have the right to set up on the user's property or any other locations, as determined by ~~the IRWD~~IRWD, such devices as are necessary to conduct sampling or metering operations of the user's discharge to sewerage facilities.
- D. In order for ~~the IRWD~~IRWD to determine the wastewater characteristics of a discharge for compliance with this ordinance, wastewater discharge permit, or other control mechanism requirements, the user may be required to make available for inspection and copying all records including, but not limited to, production records, required self-monitoring and chain of custody records, any additional records of information obtained pursuant to monitoring activities undertaken by the user independent of such requirements, documents associated with Best Management Practices and waste manifests without restriction, but subject to the confidential provisions set forth in this ordinance. All records shall be maintained by users for a minimum of three (3) years. This period shall be automatically extended for the duration of any litigation concerning the user, or when the user has been notified by written request from ~~the IRWD~~IRWD. Such records shall be made available to ~~the IRWD~~IRWD upon request.
- E. Any temporary or permanent obstruction to safe and easy access to the user's site to be inspected and/or sampled shall be promptly removed by the user at the written or verbal request of ~~the IRWD~~IRWD and shall not be replaced. The costs of cleaning such access shall be at the sole expense of the user.
- F. Inspection and/or sampling of any user's site shall be conducted at any time, by any means, in any amount, at any location, on any limit, requirement or pollutant in a manner and frequency as determined at the sole discretion of ~~the IRWD~~IRWD.

8.02 SELF-MONITORING AND REPORTING

- A. Self-monitoring of wastewater pollutants, constituents and characteristics of the user needed for determining compliance with any limitations and requirements as specified in the user's wastewater discharge permit, federal regulations, or this ordinance may be required. The self-monitoring requirement, frequency, forms and reporting shall be set forth in the user's wastewater discharge permit or other control mechanism. These reports may include, but are not limited to, the following:
1. Baseline monitoring reports (BMR's).
 2. Compliance schedule progress reports.
 3. 90-day compliance reports.
 4. Self-monitoring reports containing monitoring and analysis to demonstrate continued compliance as described in 40 CFR 403.12(g)(1-6).
 5. Other reports as required by ~~the IRWD~~IRWD, other regulatory agencies or applicable law.
- B. Failure by the user to perform any self-monitoring or reporting required by ~~the IRWD~~IRWD ~~shall be~~is a violation of this ordinance, and is ~~deemed to be~~ a violation for each parameter and each day in the time period for which monitoring was required, and is cause for ~~the IRWD~~IRWD to initiate all necessary tasks and analysis to the wastewater pollutants, constituents and characteristics for any limitations and requirements specified in the user's wastewater discharge permit or in this ordinance. The user shall be responsible for any and all expenses incurred by ~~the IRWD~~IRWD in undertaking such monitoring analysis and preparation of reports. All users required to sample and analyze their wastewater shall use the sampling methods and the sampling locations as set forth in their wastewater discharge permit. For each sample collected and analyzed, the user shall maintain a record of:
1. Date, exact place, method and time of sampling and the name of the person taking the sample.
 2. Date analysis performed.
 3. Identity and address of the person who performed the analysis.
 4. The analytical methods used.
 5. Results of the analysis.
- D. Samples taken shall be representative of conditions occurring during the reporting period. Users shall submit all monitoring data, even if user samples more frequently than required by its wastewater discharge permit. User is required to provide advance notice of any substantial change in the volume or character of pollutants in their discharge.

- E. When required, all submitted applications and user reports shall be signed by the CAR as defined in this ordinance. Each application and any required user report shall contain the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Date: _____

Signature: _____

Print Name: _____

Title: _____

User Name: _____

User Site
Address: _____

User Mailing
Address: _____

Phone: _____

Permit No: _____

- F. Self-monitoring reports shall be subject to the provisions of 18 U.S.C. Section 1001 relating to false statements and fraud and the provisions of Section 309(c)(2) of the Act governing false statements.
- G. The analysis of a user's wastewater pollutants, constituents and characteristics shall be done by a laboratory approved by ~~the IRWD~~IRWD.
- H. If self-monitoring indicates a violation, the user shall notify ~~the IRWD~~IRWD within 24 hours of becoming aware of the violation. The user shall repeat the sampling and analysis and submit the results of the repeat analysis to ~~the IRWD~~IRWD within 30 days after ~~event becoming aware of the violation~~the repeat sampling event. Resampling by a user is not required if ~~the IRWD~~IRWD performs the sampling at the user's site at least once a month, or if ~~the IRWD~~IRWD performs sampling at the user between the time when the initial sampling was conducted and the time when the user or the user or the IRMNWD receives the results of the sampling, or if ~~the IRWD~~IRWD has ~~performed~~performed the sampling and analysis in lieu of the user. The analysis of wastewater pollutants, constituents and characteristics and the preparation of the self-monitoring report shall be done at the sole expense of the user.

- J. The user shall establish and maintain a sample point on each discharge line at a location representative of the discharge to sewerage facilities. The maintenance of any sample point equipment shall be done at the sole expense of the user. Any sampling location shall be set forth in the user's wastewater discharge permit.
- K. Any user subject to the reporting requirements of this ordinance shall retain all records of monitoring activities and results for a minimum of three (3) years and shall make them available to ~~the IRWD~~IRWD upon request. ~~The IRWD~~IRWD may require a longer period of retention if litigation is being considered or has resulted.
- L. Any user subject to self-monitoring reporting requirements may be required to submit self-monitoring reports on forms approved by ~~the IRWD~~IRWD.
- M. Any user determined to be a non-significant categorical industrial user (NSCIU) by SOCWA pursuant to Section 202.B.86.c. and 808.B shall annual submit the following certification statement signed by the CAR as defined in this ordinance. This certification shall accompany an alternative report required by SOCWA:

"Based on my inquiry of the person or persons directly responsible for managing compliance with categorical pretreatment standards under 40 CFR ____, I certify that, to the best of my knowledge and belief that during the period from January 1, ____ to December 31, ____:

(a) The facility described as _____ met the definition of non-significant categorical industrial user as described in Section 202.B.86.c.;

(b) The facility complied with all applicable pretreatment standards and requirements during this reporting period; and (c) the facility never discharged more then 100 gallons of total categorical wastewater on any given day during this reporting period.

Date: _____

Signature: _____

Print Name: _____

This compliance certification is based on the following information.

8.03 REPORT OF SPILL, SLUG DISCHARGE, BATCH DUMPING OR UPSET

- A. In the event the user is unable to comply with any of the wastewater discharge permit conditions due to a breakdown of equipment, accidents caused by human error, or intentional action by any party, or acts of God, or any other cause, the discharger shall notify ~~the IRWD~~ as soon as possible of any spill, slug discharge, batch dumping or upset.
- B. Confirmation of this notification shall be made in writing within five (5) working days of the original notification unless waived by ~~the IRWD~~IRWD. The written notification shall contain:

1. Date of the incident.
 2. Reason for the spill, slug discharge, batch dumping or upset.
 3. The steps that were taken to immediately correct the problem.
 4. The steps that are being taken to prevent the problem from recurring.
 5. Any other information ~~the IRWD~~IRWD deems relevant.
- C. Such notification shall not relieve the user of any expense, loss, damage, liability or fees which may be incurred as a result of damage or loss to sewerage facilities or any damage or loss to persons or property. Such notification shall never relieve the user from any fees or liability which may be imposed by this ordinance, other regulatory agencies or other applicable law.
- D. Significant industrial users shall notify IRWD immediately of any changes at its site affecting the potential for a slug discharge

8.04 REPORTING OF BY-PASS

- A. By-pass of industrial wastewater through pretreatment equipment to the sewerage facilities is prohibited. Enforcement action may be taken against the user, unless:
1. By-pass was unavoidable to prevent loss of life, personal injury, or severe property damage, and
 2. There were no feasible alternatives to the by-pass, such as the use of auxiliary treatment equipment, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a by-pass which occurred during normal periods of equipment downtime or preventative maintenance, and
 3. The user submitted notice as required by this ordinance, or;
 4. The bypass did not exceed user discharge limits and was required for essential maintenance.
- B. If a user knows in advance of the need for a by-pass, it shall submit prior notice to ~~the IRWD~~IRWD at least ten (10) days before the date of the by-pass.
- C. ~~The IRWD~~IRWD may approve an anticipated by-pass after considering its adverse effects, if ~~the IRWD~~IRWD determines that it will meet the conditions listed within this section. A user shall submit notice of an unanticipated by-pass that exceeds their wastewater discharge permit limitation to ~~the IRWD~~IRWD within 24 hours from the time the user becomes aware of the by-pass. A written report shall also be provided within five (5) working days of the time the user becomes aware of the by-pass. The report shall contain:
1. Description of the by-pass and its cause.

2. Duration of the by-pass, including exact dates and times.
 3. Anticipated time it is expected to continue if the by-pass has not been corrected.
 4. Steps taken or planned to reduce, eliminate, and prevent recurrence of the by-pass.
- E. Failure to submit notice and/or written report may be grounds for wastewater discharge permit suspension or revocation. Failure to provide timely notice under Section 804 D. is deemed a waiver of the bypass defense for the user violation.
- F. Such notification shall not relieve the user of any expense, loss, damage, or other liability which may be incurred as a result of damage or loss to sewerage facilities or any other damage or loss to person or property. Such notification shall never relieve the user from any fees or liability that may be imposed by this ordinance, other regulatory agencies or other applicable law.

8.05 BASELINE MONITORING REPORTS (40 CFR 403.12(B))

- A. Within either one hundred eighty (180) days after the effective date of a categorical standard or the final administrative decision on a category determination under 40 CFR 403.6(a)(4), whichever is later, an existing categorical industrial user currently discharging to or scheduled to discharge shall submit to ~~the IRWD~~IRWD a report containing the information listed below. At least ninety (90) days prior to commencement of discharge, new sources, and sources that become categorical industrial users subsequent to the promulgation of an applicable categorical standard shall submit to ~~the IRWD~~IRWD a report containing the information listed below. A new source shall report the method of pretreatment it intends to use to meet applicable categorical standards. A new source also shall give estimates of its anticipated flow and quantity of pollutants to be discharged. The baseline monitoring report shall include, but is not limited to, the following:
1. Identifying information. The name and address of the site, including the name of the operator and owner.
 2. Permits. A list of any environmental control permits held by or for the site. Description of Operations. A brief description of the nature, average rate of production, and North America Industrial Classification of the operation(s) carried out by such industrial user. This description should include a schematic process diagram which indicates points of discharge to sewerage facilities from the regulated processes.
 4. Flow Measurements. Information showing the measured average daily and maximum daily flow, gpd, to sewerage facilities from regulated process streams and other streams as necessary.
 5. Measurement of Pollutants. The categorical pretreatment standards applicable to each regulated process and the results and analysis identifying the nature and concentration, and/or mass, where required by the standard or by ~~the IRWD~~IRWD, of regulated pollutants in the discharge from each regulated process. Instantaneous, daily maximum, and long-term average concentrations,

or mass where required, shall be reported. The sample shall be representative of daily operations. In cases where the standards requires compliance with a BMP or pollution prevention alternative, the industrial user shall submit documentation as required by ~~the IRWD~~IRWD or the applicable standards to determine compliance with the standard.

6. Certification. A statement, reviewed by the user's CAR and certified by a qualified professional, indicating whether pretreatment standards are being met on a consistent basis, and if not, whether additional operation and maintenance (O&M) and/or additional pretreatment is required to meet the pretreatment standards and requirements.
7. Compliance schedule. If additional pretreatment and/or O&M will be required to meet the pretreatment standards, the shortest schedule by which the industrial user will provide such additional pretreatment and/or O&M. The completion date in this schedule shall not be later than the compliance date established for the applicable pretreatment standard.
8. Signature and certification. All monitoring reports shall be signed and certified in accordance with Section 802 E. of this ordinance.

8.06 REPORT ON PROGRESS IN MEETING COMPLIANCE SCHEDULES(40 CFR 403.12(C))

- A. All Class I users required to submit compliance schedules shall report their progress no later than fourteen (14) days after each due date contained in their compliance schedule.
- B. The schedule shall contain increments of progress in the form of dates for the commencement and completion of major events leading to the construction and operation of additional pretreatment required for the user to comply with the applicable pretreatment standards.
- C. No increment referred to above shall exceed nine (9) months.
- D. In no event shall more than nine (9) months elapse between progress reports to ~~the~~IRWD.

8.07 REPORT ON COMPLIANCE WITH CATEGORICAL PRETREATMENT STANDARDS DEADLINE (40 CFR 403.12(D))

- A. Within ninety (90) days following the date for final compliance with the applicable categorical standards or within ninety (90) days of the introduction of wastewater into sewerage facilities, the affected user shall submit a report containing the information listed below. This report shall include, but is not limited to the following:
 1. Flow Measurements. Information showing the measured average daily and maximum daily flow, in gallons per day, to sewerage facilities from regulated process streams and other streams.
 2. Measurement of Pollutants. The categorical pretreatment standards applicable to each regulated process and the results and analysis identifying the nature and concentration, and/or mass, where required by the standard or by ~~the~~

~~IRWD~~IRWD, of regulated pollutants in the discharge from each regulated process. Instantaneous, daily maximum, and long-term average concentrations, or mass where required, shall be reported. The sample shall be representative of daily operations.

~~3.4.~~ Certification. A statement, reviewed by the user's CAR and certified by a qualified professional, indicating whether pretreatment standards are being met on a consistent basis, and if not, whether additional operation and maintenance (O&M) and/or additional pretreatment is required to meet the pretreatment standards and requirements.

~~4.5.~~ Signature and certification. All monitoring reports shall be signed and certified in accordance with Section 802 E. of this ordinance.

8.08 PERIODIC COMPLIANCE REPORT

- A. All Class I users subject to federal pretreatment standards (except a non-significant categorical user) as a minimum shall submit reports containing the information required in 40 CFR 403.12 during the months of June and December, or as required in their wastewater discharge permit or other control mechanism.
- B. A Class I user determined to be a non-significant categorical industrial user by ~~the~~ IRWDIRWD pursuant to Section 2.02.B.86.c. shall annually submit a report containing information as required in their wastewater discharge permit or other control mechanism.
- C. All users may be required to submit periodic compliance reports containing information as required in their wastewater discharge permit, other control mechanism or as required by ~~the~~ IRWDIRWD.

8.09 RIGHT OF ENTRY

IRWD shall have the right to enter the premises of any user to determine whether the user is complying with the requirements of this ordinance and any individual wastewater discharge permit, other control mechanism or order issued hereunder. Users shall allow ~~the~~ IRWDIRWD ready access to all parts of the premises for the purpose of inspection, sampling, records examination and copying, and the performance of any other duties.

8.10 ANALYTICAL REQUIREMENTS

- A. All pollutant analyses, including sampling techniques, to be submitted as part of a wastewater discharge permit application or report shall be performed in accordance with the techniques prescribed in 40 CFR
- B. Part 136 and amendments thereto, unless otherwise specified in an applicable categorical pretreatment standard. If 40 CFR Part 136 does not contain sampling or analytical techniques for the pollutant in question, or where the EPA determines that the Part 136 sampling and analytical techniques are inappropriate for the pollutant in question, sampling and analyses shall be performed by using validated analytical methods or any other applicable sampling and analytical procedures, including procedures suggested by ~~the~~ IRWDIRWD or other parties approved by the EPA.

8.11 SAMPLE COLLECTION

- A. Samples collected by the user to satisfy reporting requirements contained in this ordinance, their wastewater discharge permit or other control mechanism shall be based on data obtained through appropriate sampling and analysis performed during the period covered by the report, based on data that is representative of conditions occurring during the reporting period.
- B. Except as indicated in Section 8.11.C. and 8.11.D. below, the user shall collect wastewater samples using 24-hour flow-proportional composite sampling techniques, unless time-proportional composite sampling or grab sampling is authorized by ~~the IRWD~~IRWD. Where time-proportional composite sampling or grab sampling is authorized by ~~the IRWD~~IRWD, the samples shall be representative of the discharge. Using protocols specified in 40 CFR 136 and appropriate EPA guidance, multiple grab samples collected during a 24-hour period may be composited prior to the analysis as follows: for cyanide, total phenols and sulfides the samples may be composited in the laboratory or in the field; for volatile organics and oil and grease, the samples may be composited in the laboratory. Composite samples for other parameters unaffected by the compositing procedures as documented in approved EPA methodologies may be authorized by ~~the IRWD~~IRWD, as appropriate. In addition, grab samples may be required at any time to show compliance with instantaneous discharge limits.
- C. Samples for analysis of oil and grease, temperature, pH, cyanide, total phenols, sulfides, and volatile organic compounds shall be obtained using grab sample collection techniques.
- D. For sampling required in support of baseline monitoring and 90-day compliance reports required by this ordinance and 40 CFR 403.12(b) and (d), a minimum of four (4) grab samples shall be used for pH, cyanide, total phenols, oil and grease, sulfide and volatile organic compounds for users for which historical sampling data do not exist; for users for which historical sampling data are available, IRWD may authorize a lower minimum. For reports required by this ordinance and 40 CFR 403.12(e) and (h), the user shall collect the number of grab samples necessary to assess and assure compliance with applicable pretreatment standards and requirements.

8.12 TIMING

Reports shall be deemed to have been submitted on the date postmarked. For reports that are not mailed or delivered with postage prepaid the date of receipt of the report shall govern.

8.13 NOTIFICATION OF CHANGED DISCHARGE

All users that have been issued a wastewater discharge permit shall notify ~~the IRWD~~IRWD in advance of any substantial change in the volume or character of pollutants in their discharge in accordance with 40 CFR 403.12(j)

8.14 NOTIFICATION OF THE DISCHARGE OF HAZADOUS WASTE (40 CFR 403.12(P)(1))

- A. The industrial user shall notify ~~the IRWD~~IRWD, the EPA Regional Waste Management Division Director, and State hazardous waste authorities in writing of any discharge into sewerage facilities of a substance, which, if otherwise disposed of, would be a

hazardous waste under 40 CFR part 261. Such notification must include the name of the hazardous waste as set forth in 40 CFR Part 261, the EPA hazardous waste number, and the type of discharge (continuous, batch, or other). If the industrial user discharges more than one hundred (100) kilograms of such waste per calendar month to sewerage facilities, the notification shall also contain the following information to the extent such information is known and readily available to the industrial user: An identification of the hazardous constituents contained in the wastes, an estimation of the mass and concentration of such constituents in the wastestream discharged during that calendar month, and an estimation of the mass of constituents in the wastestream expected to be discharged during the following twelve (12) months. All notifications must take place no later than one hundred and eighty (180) days after a discharge to sewerage facilities commences. Any notification under this section need be submitted only once for each hazardous waste discharged. However, notifications of changed discharges must be submitted under Section 813 of this ordinance and as listed in 40 CFR 403.12(j). The notification requirement in this section does not apply to pollutants already reported under the self-monitoring requirements of Sections 8.05, 8.07 and 8.08 of this ordinance and as listed in 40 CFR 403.12(b), (d), and (e).

- B. Dischargers are exempt from the requirements of Section 814. A., above, during a calendar month in which they discharge no more than fifteen (15) kilograms of hazardous wastes, unless the wastes are acute hazardous wastes as specified in 40 CFR 261.30(d) and 261.33(e). Discharge of more than fifteen (15) kilograms of non-acute hazardous wastes in a calendar month, or of any quantity of acute hazardous wastes as specified in 40 CFR 261.30(d) and 261.33(e), requires a one-time notification. Subsequent months during which the industrial user discharges more than such quantities of any hazardous waste do not require additional notification.
- C. In the case of any new regulations under Section 3001 of RCRA identifying additional characteristics of hazardous waste or listing any additional substance as a hazardous waste, the industrial user must notify ~~the IRWD~~IRWD, the EPA Regional Waste Management Waste Division Director, and State hazardous waste authorities of the discharge of such substance within ninety (90) days of the effective date of such regulations.
- D. In the case of any notification made under this section, the industrial user shall certify that it has a program in place to reduce the volume and toxicity of hazardous wastes generated to the degree it has determined to be economically practical.
- E. This section does not create a right to discharge any substance not otherwise permitted to be discharged by this ordinance, a permit issued thereunder, or any applicable Federal or State law.

ARTICLE 9 ENFORCEMENT

9.01 ENFORCEMENT SCOPE

- A. ~~The~~IRWD finds that in order for it to comply with the laws, regulations, and rules imposed upon it by regulatory agencies and to ensure that sewerage facilities and

treatment processes are protected and are able to operate with the highest efficiency, specific enforcement provisions must be adopted to regulate discharges from industrial users.

- B. ~~The~~ IRWD is willing to cooperate with all users on improvements in wastewater quality, yet must be in a position to ensure that uncooperative users shall comply with this ordinance and any conditions set forth in a wastewater discharge permit.
- C. ~~The~~ IRWD intends to ensure that all interested parties are afforded due process of law and that any noncompliance or violation is resolved as soon as possible. Enforcement shall be guided by the IRWD Enforcement Response Plan (ERP), adopted by CSJC/SOCWA as Resolution No. 2009-02, which is adopted here by reference.
- ~~C.D.~~ All users have a right of appeal pursuant to the procedures set forth in this ordinance.
- ~~D.E.~~ Each non-compliance or violation per day and each day of noncompliance or violation shall be taken as a separate noncompliance or violation for determining the amount of fees, charges, fines or penalties and/or which enforcement actions may be taken. A violation of a weekly average is considered seven (7) days of violation for that parameter and a violation of a monthly average is based upon the number of days in that month. A violation of multiple parameters caused by a single operational upset is considered one violation.
- ~~E.F.~~ ~~_____ F. _____~~ The issuance or exercise of any type of an enforcement action provided for under this ordinance shall not be a bar against, or a prerequisite for, taking any other or additional enforcement action against a user under this ordinance or any other local, state or federal law. The remedies provided for in this ordinance are not exclusive and ~~the IRWD~~ IRWD is empowered to take more ~~then than~~ one enforcement action against any noncompliant user.

9.02 NOTICE OF NONCOMPLIANCE (NON)

- A. In the event that it is determined that a user is in noncompliance with any provision of this ordinance, or the terms, conditions and limitations of its wastewater discharge permit, ~~the IRWD~~ IRWD may issue a Notice of Noncompliance (NON) form, whereby the user shall comply with all directives, conditions and requirements therein within the time prescribed.
- B. The ~~issuance of a NON form~~ may contain terms and conditions including, but not limited to, installation of pretreatment equipment, sampling structures, submittal of drawings or technical reports, payment of fees or administrative fines, limits on rate and time of discharge or any other provisions to ensure compliance with this ordinance and the user's wastewater discharge permit. This action is not a prerequisite to taking other or more severe enforcement actions.

9.03 NOTICE OF VIOLATION (NOV)

- A. In the event that it is determined that a user has not responded to a NON ~~form~~ that was previously issued to them or that noncompliance of any pretreatment standards requires their immediate attention, ~~the~~ IRWD may issue a Notice of Violation (NOV) form,

~~identifying the violations and requiring whereby~~ the user ~~shall~~to comply with all directives, conditions and requirements therein within the time prescribed.

- B. The ~~issuance of a~~ NOV ~~form~~ may contain terms and conditions including, but not limited to, installation of pretreatment equipment and facilities, submittal of drawings or technical reports, payment of fees, administrative fines, limits on rate and time of discharge or any other provisions to ensure compliance with this ordinance. This action is not a prerequisite to taking other or more severe enforcement actions.

9.04 9.04 ADMINISTRATIVE ORDER (AO)

- A. The AO is an enforcement document from ~~the~~ IRWD directing the noncompliant user to undertake or to cease specific activities required to bring the user into compliance with this ordinance or the terms, conditions and limitation of a wastewater discharge permit as determined by ~~the~~ IRWD. The terms and conditions of the AO are not negotiable by the user. The circumstances of a user's noncompliance may dictate which theme the administrative order takes to achieve the earliest possible return to compliance by the user. AOs may include administrative complaints. Types of AOs may include, but are not limited to, the following:
1. Probation Order (PO)
 - a. The PO directs the noncompliant user to achieve compliance by a date specified in the order. The PO is usually issued when a user is in non-compliance of this ordinance, or the terms, conditions and limitations of its wastewater discharge permit or other enforcement action, or has not made payment of all amounts owed to ~~the~~ IRWD which include, but are not limited to, any fees, charges, fines and/or penalties. This action is not a prerequisite to taking other or more severe enforcement actions.
 2. Show Cause Order (SCO)
 - a. The SCO directs the noncompliant user to appear at a formal meeting, usually at a IRWD location, to explain its noncompliance, and to show cause why more severe enforcement actions against the user should not go forward. This action is not a prerequisite to taking other or more severe enforcement actions.
 3. Cease and Desist Order (CDO)
 - a. The CDO directs the noncompliant user to cease illegal or unauthorized discharges immediately, or to terminate its discharge altogether. A CDO may be issued in situations where a particular discharge could cause interference or pass through, or threaten human safety or the environment. The CDO may be issued immediately upon discovery of the problem. In an emergency, a CDO may be issued by any means, however, such an order should be followed by a written CDO on the user,. If necessary, ~~the IRWD~~IRWD may order immediate cessation of any discharge to the a sewerage facility, regardless of the user's compliance status. If a user fails to comply with the CDO, ~~the IRWD~~IRWD

may take any independent action to halt the discharge. This action is not a prerequisite to taking other or more severe enforcement actions.

9.05 WASTEWATER DISCHARGE PERMIT SUSPENSION OR REVOCATION

A. Grounds

1. ~~The IRWD~~IRWD may suspend or revoke any wastewater discharge permit, ~~but is not limited to the following,~~ when it is determined that a user:
 - a. Violated an administrative order.
 - b. Provided a false statement, representation, record, report or other document to ~~the IRWD~~IRWD.
 - c. Refused to provide records, reports, plans or other documents required to determine wastewater discharge permit terms, conditions, or limitations, discharge compliance, or compliance with this ordinance.
 - d. Discharged effluent that causes pass-through or interference with sewerage facilities.
 - e. Falsified, tampered with, or knowingly rendered inaccurate any monitoring device or sample collection method.
 - f. Discharged effluent that endangers human health or the environment.
 - g. Failed to report significant changes in operations or wastewater constituents and characteristics.
 - h. Failed to comply with the terms and conditions of any enforcement action.
 - i. Refused reasonable access to the permittee's premises for the purpose of inspection and monitoring.
 - j. Failed to make timely payment of any fees, charges, fines or penalties owed to ~~the IRWD~~IRWD.
 - k. Violated any conditions or limitations of its wastewater discharge permit or any provision of this ordinance.
 - l. Discharged batch dumps to sewerage facilities not authorized or permitted by ~~the IRWD~~IRWD.

B. Notice of Wastewater Discharge Permit Suspension/Revocation

1. When ~~the IRWD~~IRWD has reason to believe that grounds exist for suspension ~~or~~ revocation of a wastewater discharge permit, written notice shall be given by certified mail to the user setting forth a statement of facts and grounds deemed to exist together with a description of the time and place where the charge shall be heard by the General Manager. The hearing date shall not be less than fifteen (15) days nor more than sixty (60) days after the mailing of such notice.

C. Hearing on Permit Suspension/Revocation

1. At the wastewater discharge permit suspension/revocation hearing, the user shall have an opportunity to respond to the allegations set forth in the notice. The hearing shall be conducted in accordance with procedures established by the General Manager and approved by ~~the IRWD~~IRWD's General Counsel.
2. After the hearing, the General Manager's designee shall submit a written report to the General Manager setting forth a brief statement of facts found to be true, a determination of the issues presented, conclusions, and a recommendation.
3. Upon receipt of the written report, the General Manager shall make his determination. Should he find that the grounds exist for suspension ~~or~~ revocation of the wastewater discharge permit, he shall issue his decision and order, in writing within thirty (30) days after the hearing by his designee. A copy of the written decision shall be sent by personal delivery or certified mail to the user.

D. Effect of Wastewater Discharge Permit Suspension

1. Upon the issuance of an order of suspension by the General Manager, the user shall have no right to discharge any industrial wastewater, directly or indirectly to sewerage facilities for the duration of the suspension. All costs for physically terminating and reinstating service shall be paid by the user.
2. An order of wastewater discharge permit suspension issued by the General Manager shall be deemed final upon delivery to the user, unless appealed to the Board as specified in Section 913 of this ordinance.

E. Effect of Wastewater Discharge Permit Revocation

1. On the effective date of a wastewater discharge permit revocation being final, the user shall permanently lose all rights to discharge any industrial wastewater directly or indirectly to sewerage facilities. All costs for physical termination shall be paid by the user.
2. Each owner and employee of the user shall be bound by the order of wastewater discharge permit revocation. Any future application from any user subject to an order of wastewater discharge permit revocation will only be considered by ~~the IRWD~~IRWD after fully reviewing the records of revocation. Such records may be the basis for denial of a new wastewater discharge permit.
4. An order of permit revocation issued by the General Manager shall be deemed final upon delivery to the user, unless appealed to the Board as specified in Section 913 of this ordinance.

9.06 TERMINATION OF SERVICE

~~The~~ IRWD may physically terminate water or sewer service to any user that violates or continues to violate the provisions of this ordinance, a term of any order of suspension or revocation of a wastewater discharge permit or other control mechanism. All costs for physical termination shall be paid for by the user as well as all costs for reinstating services.

9.07 EMERGENCY SUSPENSION

- A. ~~The~~ IRWD's General Manager may suspend water or sewer service when such suspension is necessary, in order to stop an actual or impending discharge which presents or may present an imminent or substantial endangerment to the health and welfare of persons, to the environment, cause interference to sewerage facilities, or cause ~~the~~ IRWD to violate any state or federal law or regulation.
- B. An emergency suspension order is final and has no right of appeal.

9.08 INJUNCTION

Whenever a discharge of wastewater is in violation of the provisions of this ordinance, ~~the~~ IRWD may petition the superior court for the issuance of a preliminary or permanent injunction, or both, as may be appropriate to restrain the continuance of such discharge.

9.09 CIVIL FINES AND PENALTIES

- A. Authority.
 - 1. All users of sewerage facilities are subject to administrative or judicial enforcement actions by ~~the~~ IRWD, EPA, State Regional Water Quality Control Board or the District Attorney of Orange County. Actions may be taken pursuant to the authority and provisions of several laws, including but not limited to:
 - a. Federal Water Pollution Control Act (Clean Water Act).
 - b. California Porter-Cologne Water Quality Act (California Water Code).
 - c. California Hazardous Waste Control Law.
 - d. Resource Conservation and Recovery Act (RCRA).
- B. Recovery of Fines or Penalties.
 - 1. Payment of fines or penalties by ~~the IRWD~~ IRWD due to enforcement actions of other regulatory agencies based upon a violation by ~~the IRWD~~ IRWD whose cause can be established as the discharge of any user which is in violation of any provisions of this ordinance or a wastewater discharge permit shall entitle ~~the IRWD~~ IRWD to recover from the user all cost and expenses, including, but not limited to the full amount of fines and penalties which ~~the IRWD~~ IRWD has been subjected to.
 - 2. Each violation shall constitute a new and separate violation and shall be subject to the fines and penalties contained herein.
- C. Civil Liability
 - 1. Pursuant to the authority of California Government Code Sections 54739-54740, any user, permittee, discharger or other person who violates any provision of this ordinance, any wastewater discharge permit condition, prohibition or effluent limitation, or any order, compliance schedule, suspension or revocation shall be

civilly liable for a sum not to exceed twenty-five thousand dollars (\$25,000) per violation for each day in which such violation occurs.

2. Pursuant to the authority of Act. 33 U.S.C. Section 1251 et seq., any user, permittee, discharger or other person who violates any provision of this ordinance, any wastewater discharge permit condition, prohibition or effluent limitation, or any order, compliance schedule, wastewater discharge permit suspension or revocation shall be civilly liable for a sum not to exceed twenty-five thousand dollars (\$25,000) per violation for each day in which such violation occurs.
3. ~~The IRWD~~IRWD may petition the superior court to impose, assess and recover penalties or other such penalties as ~~the IRWD~~IRWD may impose, assess and recover pursuant to federal and/or state legislative authorization.
4. Notwithstanding any other provisions of law, all civil penalties imposed by the court for a violation of this ordinance shall be distributed to ~~the IRWD~~IRWD.
5. Remedies under this section are in addition to and do not supersede or limit any and all other remedies, civil or criminal, but no liability shall be recovered under this section for any violation for which liability is recovered under Section 909 D. of this ordinance.

D. Administrative Complaint

1. Pursuant to the authority of California Government Code Sections 54740.5 and 54740.6, ~~the IRWD~~IRWD may issue an administrative complaint to any user, permittee, discharger or other person who violates any provision of this ordinance, any wastewater discharge permit condition, prohibition or effluent limitation, or any administrative, suspension or revocation order or other control mechanism.
2. The administrative complaint shall be served by personal delivery or certified mail on such person and shall inform the person that a hearing shall be conducted, within sixty (60) days following service. The administrative complaint will allege the act or failure to act that constitutes the violation(s), set forth the provisions of law authorizing civil liability to be imposed and the proposed civil penalty. The matter shall be heard by the General Manager or his designee. The person to whom an administrative complaint has been issued may waive the right to a hearing, in which case a hearing shall not be conducted.
3. At the hearing, the person shall have an opportunity to respond to the allegations set forth in the administrative complaint by presenting written or oral evidence. The hearing shall be conducted in accordance with the procedures established by the General Manager and approved by ~~the IRWD~~IRWD's General Counsel.
4. After the conclusion of the hearing, the General Manager's designee shall submit a written report to the General Manager setting forth a brief statement of the facts found to be true, a determination of the issues presented, conclusions and a recommendation. Upon receipt of the written report, the General Manager shall make his determination and should he find that grounds exist for assessment of a

civil penalty, he shall issue his decision and order in writing within thirty (30) calendar days after the conclusion of the hearing. If not appealed, the order shall be final thirty-one (31) days after it is served on the person.

5. A person dissatisfied with the decision of the General Manager may appeal to the Board pursuant to Section 9.13 of this ordinance within thirty (30) days of notice of the General Manager's decision.
6. If, after the hearing or appeal, if any, it is found that the person has violated reporting or discharge requirements or other provisions of the this ordinance, the General Manager or Board may assess a civil penalty against that person.
7. In the determination of the amount of the civil penalty, all relevant circumstances may be taken into consideration, including, but not limited to, the extent of harm caused by the violation, the economic benefit derived through any non-compliance, the nature and persistence of the violations, the length of time over which the violation occurs and the corrective action(s), if any, attempted or taken by the person.
8. Civil penalties may be assessed as follows:
 - a. In an amount which shall not exceed two thousand dollars (\$2,000) for each day for failing or refusing to furnish technical or monitoring reports.
 - b. In an amount which shall not exceed three thousand (\$3,000) for each day for failing or refusing to timely comply with any compliance schedule
 - c. In an amount which shall not exceed five thousand dollars (\$5,000) per violation for each day for discharges in violation of any waste discharge limitation, wastewater discharge permit condition, other control mechanism or requirement issued, reissued or adopted by ~~the~~ IRWD/IRWD.
 - d. In an amount which does not exceed ten dollars (\$10) per gallon for discharges in violation of any suspensions, cease and desist order or other orders, or prohibition issued, reissued or adopted by ~~the~~ IRWD/IRWD.
9. Payment of civil penalties shall be due within thirty (30) days of the date of the order assessing the penalties becomes final. The amount of any administrative civil penalties imposed which have remained delinquent for a period of sixty (60) days from the date they are due shall constitute a lien against the real property of the discharger from which the discharge resulting in the imposition of the penalty originated. The lien shall have no force and effect until recorded with the county recorder and when recorded shall have the force and effect and priority of a judgment lien and continue for ten (10) years and be renewable in accordance with law.
10. Copies of the administrative order shall be served by personal service or by registered mail upon the party served with the administrative complaint and upon other persons who appeared at the hearing and requested a copy of the order.

11. Any party aggrieved by a final order issued by the Board after granting review of the order of the General Manager may obtain review of the order of the Board in the Superior Court, by filing in the court a petition for writ or mandate within thirty (30) days following the service of a copy of the decision and order issued by the Board.
12. Any party aggrieved by a final order issued by the General Manager, for which the Board denies review, may obtain review of the order of the General Manager in the Superior Court, by filing in the court a petition for writ of mandate within thirty (30) days following service of a copy of a decision and order denying review by the Board.
13. No administrative civil penalties shall be recoverable under this section for any violation for which civil liability is recovered under Section 9.09.C. of this ordinance.

9.10 CRIMINAL PENALTIES

- A. Any person who violates any provision of this ordinance is guilty of a misdemeanor, which upon conviction is punishable by a fine not to exceed one thousand dollars (\$1,000) or imprisonment for not more than thirty (30) days or both.
- B. Each violation shall constitute a new and separate violation and shall be subject to the penalties contained herein.

9.11 PUBLIC NUISANCE

- A. Discharge of wastewater in a manner that is in noncompliance or violation of this ordinance or of any order issued by ~~the IRWD~~IRWD, in accordance with this ordinance, shall hereby be declared a public nuisance and shall be corrected or abated as directed by ~~the IRWD~~IRWD.
- B. Any person creating a public nuisance is guilty of a misdemeanor and is subject to the criminal penalties identified in Section 9.10 of this ordinance.

9.12 APPEALS TO THE GENERAL MANAGER

- A. General
 1. Any user affected by a decision, action or determination made by IRWD staff may file with the General Manager a written request for an appeal hearing.
 2. Request must be made within fifteen (15) days of the mailing of the original decision.
 3. Request for hearing shall set forth details of all facts supporting the appellant's request for hearing.
- B. Notice

1. The General Manager shall, within fifteen (15) days of receiving the request for appeal provide written notice to the user of the hearing date, time, and place.
2. The hearing time shall not be more than thirty (30) days from the mailing of such notice by certified mail to the appellant unless a later date is agreed to by the appellant.
3. If the hearing is not held within the time set due to actions of the appellant, then ~~the IRWD~~IRWD's decision shall be deemed final.

C. Hearing

1. The appellate shall have the opportunity to present information supporting its position concerning ~~the IRWD~~IRWD's original decision, action or determination.
2. The hearing shall be conducted in accordance with procedures established by the General Manager and approved by ~~the IRWD~~IRWD's General Counsel.

D. Written Determination

1. After the hearing the General Manager shall make a determination whether to uphold, modify or reverse original decision, action or determination as issued by IRWD staff.
2. This decision shall be put into writing within a brief statement of facts found to be true, the determination of the issues presented, and the findings.
3. The final determination of the General Manager upon his approval shall be executed as the order.
4. A copy shall be mailed or delivered to the appellant.
5. The order of the General Manager shall be final in all respects fifteen (15) days after it is mailed to the appellant, unless appealed under Section 9.13 of this ordinance.

E. Wastewater Discharge Permit Suspension/Revocation Appeals

1. Appeals regarding wastewater discharge permit suspension or revocation are covered under Section 9.05 and Section 9.13 as specified in this ordinance.

9.13 9.13 APPEALS TO THE BOARD

A. General

1. The user may, within thirty (30) days after the date of notification of the General Manager's order upholding ~~the IRWD~~IRWD's determination, file a written appeal to the Board.
2. A fee of one hundred dollars (\$100) shall accompany the written appeal which shall be refunded if the Board of Directors reverses or modifies the order of the General Manager.

3. A request for appeal to the Board shall set forth details of the past record and that new arguments cannot be raised on appeal to the Board that could have been, but were not, raised in the prior appeal to the General Manager.
4. Pending the hearing on appeal, the user shall not be entitled to discharge into sewerage facilities beyond the effective date of the original order determined by the General Manager, unless it has been determined by the General Manager that the user is pursuing good faith arguments and approves such discharge.

B. Notice

1. The Board Secretary, within fifteen (15) days of receiving the request for appeal, will provide written notice to the user of the hearing date, time and place.
2. The hearing date shall not be more than forty-five (45) days from the mailing of such notice by certified mail to the appellant unless a later date is agreed to by the appellant.
3. If the hearing is not held within the time set due to action of the appellant, the General Manager's decision shall be deemed final.

C. Hearing

1. The appellant shall have the opportunity to present information supporting its position concerning the General Manager's determination.
2. The hearing shall be conducted in accordance with procedures established by the Board and approved by ~~the~~ IRWD's General Counsel.

D. Written Determination

1. After the hearing, the Board shall make a determination whether to uphold, modify or reverse the original decision, action or determination as ordered by the General Manager.
2. The decision of the Board shall be reduced to writing within thirty (30) days after the hearing.
3. It shall contain a brief statement of facts found to be true, the determination of the issues presented, and the findings. The decision shall be submitted to the appellant.
4. The order of the Board shall be final upon its adoption.

9.14 9.14 JUDICIAL REVIEW

A. Purpose and Effect

1. Pursuant to Section 1094.6 of the California Code of Civil Procedure, the time in which a user may bring an administrative mandamus action shall be limited to ninety (90) days following the final decision in the adjudicative administrative hearing in question.

B. Time Limit for Judicial Review

1. Judicial review of any decision of ~~the~~ IRWD's Board may be made pursuant to Section 1094.5 of the California Code of Civil Procedure only if the petition for writ of mandate is filed no later than ninety (90) days following the date on which any decision becomes final.

C. Preparation of Records

1. The complete record of the proceedings shall be prepared by ~~the~~ IRWD and shall be delivered or mailed to the petitioner within one hundred-ninety (190) days after ~~they have~~petitioner has filed a written request.
2. ~~The IRWD shall recover from the p~~Petitioner shall pay IRWD for IRWD's its actual costs for preparing and transcribing the record.

D. Extension

1. If the petitioner files a request for the record within ten (10) days after the date the decision becomes final, the time within which a petition may be filed, pursuant to Section 1094.5 of the California Code of Civil Procedures, shall be extended to no later than thirty (30) days following the date on which the record is delivered or mailed, by ~~the IRWD~~IRWD, to the petitioner or the petitioner's attorney of record, if appropriate.

E. Notice

1. In making a final decision, ~~the IRWD~~IRWD shall provide notice to the user whose wastewater discharge permit has been denied, suspended or revoked, that the time in which judicial review must be sought is governed by Section 1094.6 of the California Code of Civil Procedures.

F. This section does not apply to action taken under Section 9.09 of this ordinance.

9.15 PAYMENT AND COLLECTION OF FEES AND CHARGES

- A. Except as otherwise provided, all fees and charges are due and payable upon receipt of an invoice or notice thereof. All such amounts are delinquent if unpaid forty-five (45) days after date of invoice or notice.
- B. Any invoice or notice that becomes delinquent may have added to it an assessment in accordance with the following:
 1. Forty-six (46) days after the date of invoice or notice, an assessment of ten percent (10%) of the base amount, not to exceed a maximum of \$1,000.
 2. Ninety (90) days after the date of invoice or notice, a total of twenty-five percent (25%) of the base amount, not to exceed a maximum of \$2,500.

- C. Any invoice or notice that is outstanding and unpaid after ninety (90) days may be cause for immediate initiation of wastewater discharge permit revocation proceedings or immediate wastewater discharge permit suspension.
- D. Delinquent assessments under this section may not accrue to those invoices or notices successfully appealed, provided ~~the IRWD~~IRWD received written notice of appeal prior to the payment due date.
- E. Payment of disputed fees and charges are still required by the due date during review of any appeal submitted by permittee.
- F. This section does not apply to Section 9.09 of this ordinance.

9.16 9.16 RECOVERY OF ENFORCEMENT COSTS

In the event a user fails to comply with any of the terms and conditions of this ordinance, wastewater discharge permit, administrative order, wastewater discharge permit suspension or revocation, other control mechanism or any other enforcement action, ~~the IRWD~~IRWD shall be entitled to reasonable attorney's fees and costs which may be incurred during enforcement of any terms and conditions with or without filing proceedings in court.

9.17 FINANCIAL SECURITY CONDITIONS

- A. Compliance Deposit
 - 1. Users that have been subject to enforcement actions and/or fees, charges, penalties or fines may be required to deposit with ~~the~~IRWD an amount determined by the General Manager as necessary to guarantee payment of all charges, fees, costs and expenses that may be incurred in the future.
 - 2. A compliance deposit shall be received by ~~the~~IRWD before ~~the~~IRWD either issues a wastewater discharge permit, other control mechanism or grants the user permission for further discharge to sewerage facilities.
- B. Delinquent Accounts
 - 1. Any user who fails to make payment in full of all fees, charges, penalties or fines assessed by ~~the~~IRWD including reconciliation amounts, delinquency fees, and other costs or fees may be required to obtain the issuance of an amendment to their wastewater discharge permit.
- C. Bankruptcy
 - 1. Any user filing any legal action in any court of competent jurisdiction, including the United States Bankruptcy Court, for purposes of discharging its financial debts or obligations or seeking court-ordered protection from its creditors, shall within ten (10) days of filing such action, apply for and obtain the issuance of an amendment to its wastewater discharge permit by ~~the~~IRWD.
- D. Wastewater Discharge Permit Amendments

1. An amendment issued to the user's wastewater discharge permit shall be in accordance with the provision of this ordinance.

E. Security Deposit

1. An amendment to a wastewater discharge permit issued in accordance with this ordinance may be conditional upon the permitted user depositing financial security in an amount equal to the total fees and charges from the preceding year.
2. Such a deposit shall be used to guarantee payment of all fees and charges incurred for future services and sewerage facilities provided by ~~the~~ IRWD and shall not be used by ~~the~~ IRWD to recover outstanding fees and charges incurred prior to the user filing and receiving protection from creditors in the United States Bankruptcy Court.

F. Return of Security Deposit

1. If the user makes full payment in time of all fees and charges incurred over a period of two (2) years following the issuance of an amendment to the user's wastewater discharge permit prescribed by this ordinance, the user's security deposit shall be returned or credited to the user's account.

9.18 REPORT OF ANALYSIS

All collected data from inspection and monitoring sampling conducted by ~~the~~ IRWD may be reported to the user. This data, if given to the user, shall be kept by the user and ~~the~~ IRWD and made available during inspections by ~~the~~ IRWD or any other regulatory agency.

9.19 DAMAGE TO FACILITIES OR INTERRUPTION OF NORMAL OPERATIONS

- A. When a discharger of wastes causes an obstruction, interference, damage, or other impairment to sewerage facilities or to the operation of sewerage facilities, ~~the~~ IRWD may assess the costs against the user for the work required to clean, replace or repair the sewerage facility together with expenses incurred to resume normal operations. This shall also be grounds for wastewater discharge permit revocation. A service charge of twenty-five percent (25%) of costs shall be added to the costs and charges to cover ~~the~~ IRWD's overhead, including administrative personnel and record keeping. The total amount shall be payable within forty-five (45) days of invoicing by ~~the~~ IRWD.
- B. If it can be shown that the discharge ~~of by~~ any user is the cause of ~~the~~ IRWD violating its NPDES permit and pretreatment requirements established by any Regulatory Agency or incurring additional expenses or suffering losses or damage to IRWD sewerage facilities, then that user shall be responsible for any costs, expenses, or assessments incurred by ~~the~~ IRWD, made by other agencies or a court.
- C. Where two or more dischargers cause a single and indivisible harm to sewerage facilities, each is jointly and severally liable for the damages. The burden of proof is on the dischargers to demonstrate that the harm is divisible.

9.20 INDUSTRIAL WASTE PASS THROUGH

- A. If an industrial waste discharge results in a "pass through" event in sewerage facilities, all costs associated with the event, including but not limited to treatment costs, fines, regulatory fines, and other indirect costs may be charged against the user.
- B. The user shall submit plans which prevent future recurrences to the satisfaction of ~~the~~ IRWD.
- C. A second occurrence shall be grounds for wastewater discharge permit revocation without the right of appeal.

9.21 BATCH DUMPS

- A. When ~~the~~ IRWD determines that a user has discharged concentrated noncompatible wastes into a sewerage facility in a manner or method that is not approved by ~~the~~ IRWD, any enforcement action may be taken as set forth in this ordinance.
- B. The user shall be subject to wastewater discharge permit suspension or revocation in accordance with this ordinance as well as any other legal enforcement penalties or remedies available to ~~the~~ IRWD.

9.22 PUBLICATION OF USERS IN SIGNIFICANT NONCOMPLIANCE (SNC)

- A. To comply with the requirements of 40 CFR 403, ~~the IRWD~~IRWD shall annually publish the names of all industrial users that are in SNC (per Section 202 of this ordinance) of federal pretreatment standards.
- ~~B. Publication of this SNC notice shall be in the newspaper of general circulation that provides meaningful public notice within the IRWD service area tributary to SOCWAs.~~
- ~~C.B. The determination of SNC is based upon the definition set forth in Section 202 B.88. of this ordinance.~~

**ARTICLE 10
FEES AND CHARGES**

10.01 APPLICATION FEE

- A. All application fees shall be in an amount as established by ~~the~~ IRWD.
- B. Payment of the application fee must be received before the issuance of a new or renewal of a wastewater discharge permit.
- C. User shall pay any delinquent invoices in full, prior to the wastewater discharge permit renewal.

10.02 ANNUAL WASTEWATER DISCHARGE PERMIT FEE

- A. The annual wastewater discharge permit fee shall be in an amount as established by ~~the~~ IRWD.
- B. The annual wastewater discharge permit fee shall be due on or before the date set by ~~the~~ IRWD.

10.03 INSPECTION, MONITORING AND SAMPLING CHARGES

Any and all costs incurred by ~~the~~ IRWD to inspect, monitor and sample a user for the purpose of assuring compliance with this ordinance, the user's wastewater discharge permit, other control mechanism or other regulations shall be paid for by the user only upon receipt of an invoice or bill from ~~the~~ IRWD or its representative.

10.04 DELINQUENCY FEES

- A. Any fees that become delinquent may have added to it an amount as set forth in Section 9.15 of this ordinance.
- B. Any delinquent fee and all assessments including court costs and legal fees thereon may be collected by lawsuit in the name of ~~the~~ IRWD.

10.05 ADDITIONAL FEES AND CHARGES

- A. The user will be required to pay all applicable additional fees and charges that are established by ~~the~~ IRWD only upon receipt of an invoice or bill.
- B. Any wastewater discharge permit issued for a location where the user is not the property owner, may be conditioned upon depositing financial security to guarantee payment of all additional fees and charges to be incurred, in accordance with the provisions of Section 9.17 of this ordinance.

10.06 RECORDING OF FEES AND CHARGES

- A. ~~The~~ IRWD ~~may~~ shall keep a permanent record and account of all fees and charges received under this ordinance.
- B. Record information shall include, but is not limited to:
 - 1. Name and address of user.
 - 2. Date and amount of fee or charge.
 - 3. Purpose for which fees or charges were paid.

**ARTICLE 11
SEVERABILITY**

11.01 SEVERABILITY

- A. If any provisions of this ordinance or the application thereof to any users or circumstances is held invalid, unenforceable, or unconstitutional by any court of competent jurisdiction, the remainder of this ordinance or the application of such provision to other users or other circumstances shall not be affected.
- B. If any section, subsection, clause or phrase of this ordinance is for any reason held to be invalid, unenforceable or unconstitutional by any court of competent jurisdiction, such decision shall not affect the remaining portions of this ordinance. The Board declares that it would have passed said ordinance by section, subsection, sentence, clause or phrase thereof.

**ARTICLE 12
REPEAL**

12.01 REPEAL

- A. Ordinance No. ~~2011-XX~~2015-01 is hereby repealed in its entirety.
- B. All ordinances or parts of ordinances inconsistent with this ordinance are hereby repealed to the extent that they are inconsistent with the provisions of this ordinance.

**ARTICLE 13
EFFECTIVE DATE**

13.01 EFFECTIVE DATE

This ordinance ~~shall~~becomes effective thirty (30) days after adoption. The Secretary of IRWD is directed to certify to the adoption of this ordinance and to cause a summary hereof to be published in a newspaper of general circulation as required by law.

~~A. B. ——— Amendments to this ordinance shall become effective thirty (30) days after their adoption.~~

PASSED AND ADOPTED by the Board of Directors of the Irvine Ranch Water District on
~~_____~~, 2020. ~~this _____ day of~~
~~_____, 2015~~

IRVINE RANCH WATER DISTRICT

Dated _____ by _____

President

Dated _____ by _____

Secretary

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EXHIBIT “B”

SUMMARY OF REVISIONS TO IRVINE RANCH WATER DISTRICT WASTE DISCHARGE PRETREATMENT AND SOURCE CONTROL PROGRAM, AS SET FORTH IN AN ORDINANCE OF REGULATIONS FOR THE DISCHARGE OF WASTEWATER TO SEWERAGE FACILITIES OF THE IRVINE RANCH WATER DISTRICT THAT ARE TRIBUTARY TO THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

- Update the numbering and Table of Contents
- Required reference to the Enforcement Response Plan. (see Section 1.02. Objectives. Line Item 11, and Article 9. Section 9.01. Item C.)
- Required edit to the term “Enforcement.”
- Required addition of definition of term “Dry Weather Nuisance Flow.”
- Required addition of definition of terms for “Indirect Discharge” and “Discharge.”
- Required modification of definition of terms for “National Pretreatment Standards” and “Slug Discharge.”
- Addition of definition of term for “Non-Stormwater Discharge.” Modification of definition of term for “Stormwater.”
- Add clarifying language to Article 3 Section 3.01 Authority.
- Replace outdated reference with new name for state agency in Article 5 Section 5.12 Limitations on Radioactive Wastes.
- Required modification of language in Article 8. Section 8.02. Self-Monitoring and Reporting. Line Item H. – to make more consistent with Federal Regulations. Also correct a typographical error in this paragraph changing the initials “MNWD” to “IRWD.”

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November 23, 2020
Prepared and
submitted by: L. Bonkowski
Approved by: Paul A. Cook



CONSENT CALENDAR

BOARD MEETING MINUTES

SUMMARY:

Provided are the minutes of the November 9, 2020 Regular Board meeting for approval.

FISCAL IMPACTS:

None.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

Not applicable.

RECOMMENDATION:

THAT THE MINUTES OF THE NOVEMBER 9, 2020 REGULAR BOARD MEETING BE APPROVED AS PRESENTED.

LIST OF EXHIBITS:

Exhibit "A" – November 9, 2020 Minutes

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EXHIBIT "A"

MINUTES OF REGULAR MEETING – November 9, 2020

The regular meeting of the Board of Directors of the Irvine Ranch Water District (IRWD) was called to order at 5:00 p.m. by President Matheis on November 9, 2020 via teleconference pursuant to the provisions of the Governor's Executive Orders N-25-20 and N-29-20 due to COVID-19. Members of the public did not attend this meeting in person.

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

Directors Absent: None.

Also Present: General Manager Cook, Executive Director of Technical Services Burton, Executive Director of Water Policy Weghorst, Executive Director of Finance and Administration Clary, Director of Treasury and Risk Management Jacobson, Executive Director of Operations Chambers, General Counsel Collins, Director of Public Affairs Beeman, Director of Human Resources Roney, Director of Water Quality and Regulatory Compliance Colston, Director of Information Services Malone, Director of Water Resources Sanchez, Government Relations Officer/Deputy General Counsel Compton, Secretary Bonkowski, Ms. Karen McLaughlin, Mr. Jim Garrecht, Consultants Kadesh, Kierig, Oñate, Cook, Moriyama, Newell and members of staff and the public.

WRITTEN AND ORAL COMMUNICATIONS:

Mr. Jim Garrecht addressed the Board relative to a safety concern he had for a Rattlesnake Reservoir and asked that a seismic study be performed.

Dr. Pamela Hite followed up on her written comments submitted to the Board this morning relative to: 1) aggregate billing issues for condominium/common interest developments that are Master metered, and 2) sewer charges for evaporative losses for swimming pools. She also complimented staff on their continued assistance working with her on these issues.

PRESENTATIONS

IRWD'S 2020 AND 2021 FEDERAL ADVOCACY

IRWD's consultants from Kadesh & Associates, LLC presented and discussed with the Board the District's 2020 and 2021 Federal Advocacy.

2020 AND 2021 STATE ADVOCACY

IRWD's consultants from Oñate, Resolute, and Cliff Moriyama Consulting presented and discussed with the Board the District's 2020 and 2021 State Advocacy.

In response to Director Swan's comment that he recommends quarterly updates, General Manager Cook said that this item can be discussed at the next Strategic Planning Workshop.

CONSENT CALENDAR

On MOTION by LaMar, seconded by Swan, and unanimously carried by a roll call vote (5-0) Withers, Matheis, Reinhart, Swan, and LaMar voting aye, and 0 noes, CONSENT CALENDAR ITEMS 5 THROUGH 10 WERE APPROVED AS FOLLOWS:

5. BOARD MEETING MINUTES

Recommendation: That the minutes of the October 26, 2020 Regular Board meeting be approved as presented.

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

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

7. 2020 LEGISLATIVE AND REGULATORY UPDATE

Recommendation: Receive and file.

8. CULVER DRIVE DOMESTIC WATER PIPELINE RELOCATION

Recommendation: That the Board accept construction of the Culver Drive Domestic Water Pipeline Relocation, Project 07170, 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.

9. PROPOSED IRWD 2021 INVESTMENT POLICY

Recommendation: That the Board approve the proposed IRWD 2021 Investment Policy and adopt the following resolution by title approving an investment policy and authorizing the Treasurer and Assistant Treasurers to invest and reinvest funds of the District and of each of its improvement districts and to sell and exchange securities.

RESOLUTION NO. 2020-19

RESOLUTION OF THE BOARD OF DIRECTORS OF THE IRVINE RANCH
WATER DISTRICT APPROVING AN INVESTMENT POLICY AND
AUTHORIZING THE TREASURER AND ASSISTANT TREASURERS TO
INVEST AND REINVEST FUNDS OF THE DISTRICT AND OF EACH OF
ITS IMPROVEMENT DISTRICTS AND TO SELL AND EXCHANGE
SECURITIES

CONSENT CALENDAR (continued)

10. REVISIONS TO IRWD'S CONFLICT OF INTEREST CODE

Recommendation: That the Board rescind Resolution No. 2018-28 and adopt the following resolution by title revising the Conflict of Interest Code for IRWD.

RESOLUTION NO. 2020 - 20

RESOLUTION OF THE BOARD OF DIRECTORS OF IRVINE RANCH
WATER DISTRICT RESCINDING RESOLUTION NO. 2018-28 AND
ADOPTING A REVISED CONFLICT OF INTEREST CODE FOR THE
DISTRICT

GENERAL MANAGER'S COMMENTS

General Manager Cook reported that there are no new COVID-19 cases in the workplace.

DIRECTOR' COMMENTS

Director LaMar reported on his attendance at an ACWA 2020 Region Event Series, an ISDOC Quarterly meeting, an OC Sanitation Virtual State of the District, an ACWA State Legislative Committee meeting, and a WACO meeting.

Director Reinhart reported on his attendance at a Groundwater Banking Authority Board meeting and an OCWD Board meeting. He said he was unable to attend the MWDOC/OCWD Joint Planning Committee meeting.

Director Swan reported on his attendance at a UCI Overview of the CA Water Resilience Portfolio, a Southern California Water Dialogue meeting, a MWDOC Board meeting, an ISDOC Quarterly meeting, an OC Sanitation meeting, a MWDOC Planning and Operations Committee meeting, a West Basin MWD meeting, a WACO meeting, and an OCBC Government Affairs Committee meeting.

Director Withers reported on his attendance at an ISDOC Quarterly meeting, an ISDOC Committee meeting, and a WACO meeting.

Director Matheis reported on her attendance at a MWDOC meeting.

COMMUNITY UPDATES

General Manager said he spoke with the District's consultant Mr. Newell today, and all is well in the canyon.

CLOSED SESSION

Legal Counsel Collins said that the following Closed Sessions would be held this evening.:

- 1) CLOSED SESSION CONFERENCE WITH LEGAL COUNSEL – ANTICIPATED LITIGATION – Pursuant to Government Code Section 54956.9 (d)(4): initiation of litigation. (One (1) potential case).
- 2) CLOSED SESSION: Conference with Labor Negotiator pursuant to Government Code Section 54957.6:
Agency Designated Representative: President Matheis
Unrepresented Employee: Paul Cook

OPEN SESSION

Following the Closed Session, the meeting was reconvened with Directors Matheis, Swan, Reinhart, LaMar and Withers present. No action was reported.

ADJOURNMENT

There being no further business President Matheis adjourned the meeting.

APPROVED and SIGNED this 23rd day of November 2020.

President, IRVINE RANCH WATER DISTRICT

Secretary IRVINE RANCH WATER DISTRICT

APPROVED AS TO FORM:

Claire Hervey Collins, General Counsel
Hanson Bridgett LLP

November 23, 2020
Prepared and
submitted by: K. Swan
Approved by: Paul A. Cook



CONSENT CALENDAR

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

SUMMARY:

Pursuant to Resolution 2006-29 adopted on August 28, 2006, the following events and meetings require approval by the Board of Directors:

Mary Aileen Matheis

November 10	NWRI 2020 Clarke Prize Lecture
November 18	Presentation Commending Director Finnegan – MWDOC Board Meeting
November 18	Orange County Water Association’s Monthly Industry Insight Meeting
November 20	UCI CEE Affiliates: PFAS Industry Update

Peer Swan

November 10	NWRI 2020 Clarke Prize Lecture
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John Withers

November 10	NWRI 2020 Clarke Prize Lecture
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RECOMMENDATION:

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

LIST OF EXHIBITS:

None.

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November 23, 2020
Prepared and
submitted by: Paul A. Cook



CONSENT CALENDAR

CHANGES TO GENERAL MANAGER'S COMPENSATION

SUMMARY:

The annual performance review of the General Manager was conducted on November 9, 2020. This item presents the proposed changes to the annual compensation of the General Manager.

BACKGROUND:

The General Manager's annual performance evaluation was conducted in Closed Session during the November 9, 2020 IRWD Board meeting. After the discussion, President Matheis, as the designated representative for the Board of Directors, discussed potential changes in compensation with the General Manager. Based on this discussion, the recommendation is to:

- 1) Increase the base salary of the General Manager by 2.0% (\$6,356) resulting in an increase in annual base salary from \$317,800 to \$324,156 per year, effective October 1, 2020;
- 2) Provide a one-time performance award for the General Manager in the amount of \$30,000 as a taxable lump sum cash payment; and
- 3) Increase the General Manager's monthly auto allowance to \$800 per month.

All other aspects of the General Manager's compensation remain unchanged. The General Manager's annual salary is within the existing salary range per Resolution No. 2020-12 adopted by the Board on June 8, 2020 and is publicly available.

FISCAL IMPACTS:

Funds for the compensation of the General Manager are included in the District's annual Operating Budget.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

Not applicable.

RECOMMENDATION:

THAT THE BOARD APPROVE AN INCREASE TO THE ANNUAL SALARY OF THE GENERAL MANAGER TO THE AMOUNT OF \$324,156, A ONE-TIME PERFORMANCE AWARD IN THE AMOUNT OF \$30,000, AND INCREASE THE GENERAL MANAGER'S AUTOMOBILE ALLOWANCE TO \$800 PER MONTH, EFFECTIVE OCTOBER 1, 2020.

LIST OF EXHIBITS:

None.

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November 23, 2020
Prepared and
submitted by: C. Compton
Approved by: Paul A. Cook



CONSENT CALENDAR

VARIANCE TO THE LETTER OF ENGAGEMENT WITH ALSTON & BIRD

SUMMARY:

IRWD has adopted a team approach to the procurement of legal services. The approach divides legal service responsibility for regular issues and matters across multiple law firms. In order to implement IRWD's approach, the Board authorized the General Manager to enter into several agreements for legal services. One of the firms the District has retained is Alston & Bird. Alston & Bird currently provides legal services to IRWD related to complex matters and complex litigation associated with multiple cases under a letter of engagement.

On March 26, 2018, the Board authorized the General Manager to execute a variance to the letter of engagement with Alston & Bird for legal services related to complex issues and litigation with a not-to-exceed amount of \$1,500,000. Given the number of complex matters and amount of complex litigation the District has faced this past year, the Board authorized a second, third and fourth variance to the letter of engagement with Alston & Bird increasing the not-to-exceed amount by \$1,500,000, \$2,500,000 and \$3,600,000, respectively.

Alston & Bird continues to provide a high level of service to the IRWD and continues to handle a multiple complex litigation matters for the District. Given the matters and litigation in which the firm represents District, staff recommends the Board authorize the General Manager to execute an additional variance to the letter of engagement with Alston & Bird increasing the not-to-exceed amount by \$10,000,000.

BACKGROUND:

IRWD has adopted a team approach that divides legal service responsibility for regular issues and matters among several law firms. The approach utilizes an outside general counsel who provides legal services related to municipal law, transactional and non-complex issues, rate setting, and other routine general counsel matters. The general counsel also provides coordination among the District's various legal counsel. Additionally, the approach utilizes at least two different law firms to provide legal services related to complex issues, complex litigation, and legal matters related to water resources and policy issues. Staff provides legal services management and legal service continuity along with other duties.

In order to implement IRWD's adopted approach to general legal services, the District entered into an agreement with the selected general counsel and agreements with two other law firms. One of the firms was Alston & Bird.

Services Provided by and Proposed Variance with Alston & Bird:

Alston & Bird currently provides legal services to IRWD related to complex matters and complex litigation under a letter of engagement. The services, representation, and counsel provided by the firm have been high quality.

On March 26, 2018, the Board authorized the General Manager to execute a variance to the letter of engagement with Alston & Bird for legal services related to complex issues and litigation with a not-to-exceed amount of \$1,500,000. Given the number of complex matters and amount of complex litigation the District has faced the last year and this year, the Board authorized the General Manager to enter into a second, third and fourth variance to the Letter of Engagement with Alston & Bird increasing the not-to-exceed amount by \$1,500,000, \$2,500,000, and \$3,600,000 respectively. Legal work performed by Alston & Bird is billed on an hourly basis, plus expenses.

Staff recommends the Board authorize the General Manager to execute an additional variance to the letter of engagement with Alston & Bird increasing the not-to-exceed amount by \$10,000,000.

FISCAL IMPACTS:

Legal services will be charged against the Fiscal Year Operating Budget, as appropriate. Legal services related to capital projects will be billed to the capital budgets, as appropriate.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

This item was not reviewed by a Committee.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE A VARIANCE TO THE LETTER OF ENGAGEMENT WITH ALSTON & BIRD FOR LEGAL SERVICES RELATED TO COMPLEX ISSUES AND LITIGATION INCREASING THE NOT-TO-EXCEED VALUE OF THE CONTRACT BY \$10,000,000.

LIST OF EXHIBITS:

None.

November 23, 2020
Prepared and
submitted by: C. Compton
Approved by: Paul A. Cook



CONSENT CALENDAR

2021 GENERAL COUNSEL CONTRACT

SUMMARY:

The District has adopted a team approach to the procurement of legal services, dividing legal service responsibilities across multiple law firms. Under this approach, the District's outside General Counsel provides legal services related to municipal law, transactional and non-complex issues, rate-setting, and other routine general counsel matters. Staff also works with General Counsel to coordinate the Special Counsel(s) retained by IRWD.

Hanson Bridgett LLP, specifically Claire Hervey Collins, currently serves as General Counsel for IRWD. The current (one-year) contract with Hanson Bridgett will expire on December 31, 2020. Staff recommends that the Board authorize the General Manager to execute a Professional Services Agreement with Hanson Bridgett for general counsel legal services with a term of January 1, 2021, to December 31, 2021, and a not-to-exceed amount of \$1,050,000.

BACKGROUND:

The District has adopted a team approach that divides legal service responsibilities among several law firms. The approach utilizes an outside General Counsel who provides general counsel legal services related to municipal law, transactional and non-complex issues, rate-setting, and other routine general counsel matters. The general counsel, working with staff, also provides coordination among the District's various legal counsels. For example, the approach utilizes at least two different law firms to provide legal services related to complex issues, complex litigation, and legal matters related to water resources and policy issues. Staff provides legal services management and legal service continuity, along with having other duties.

In March 2018, the Board selected Lewis Brisbois & Smith LLP to provide general counsel services to the District, and named Claire Hervey Collins, who was with the firm at that time, to serve in the role of General Counsel for IRWD. On January 1, 2020, Ms. Collins transitioned her employment to Hanson Bridgett, LLP. Concurrently, the IRWD Board appointed Hanson Bridgett as General Counsel for the District and renamed Ms. Collins to serve in the role of General Counsel for IRWD.

Services Provided by Hanson Bridgett LLP:

Hanson Bridgett served as General Counsel for IRWD over the past year. As the General Counsel, Ms. Collins, along with other members of the Hanson Bridgett firm, provided general counsel legal services for the District focused on municipal law, transactional and non-complex issues, and rate-setting. While Ms. Collins provides the vast majority of the services required by IRWD, Paul Beck (also from Hanson Bridgett) assists Ms. Collins and serves as an assistant general counsel for IRWD, ensuring continuity of service should Ms. Collins become unavailable.

Proposed Contract with Hanson Bridgett LLP:

Hanson Bridgett’s contract to serve as IRWD General Counsel expires on December 31, 2020. Staff requested a proposal from Hanson Bridgett for their proposed hourly rates so that a new agreement for legal services with the firm can be developed. The total not-to-exceed value of the contract for 2021 is proposed at \$1,050,000 – a 5% increase over the 2020 contract’s not-to-exceed value. The proposed not-to-exceed value is based on the hourly rates listed below; a summary of the scope of work is provided as Exhibit “A”.

Comparison of 2020 and 2021 Hourly Rates

Timekeeper Title	2020 Rates	2021 Rates	Increase (rounded)
Partners	\$365	\$383	5%
Counsel/Sr. Counsel	\$330	\$347	5%
Associate/Other Attorneys	\$296	\$310	5%
Practice Support Analyst	-	\$250	
Paralegal/Law Clerk	\$155	\$175	5%

The number of billable hours estimated for this 12-month period includes the estimated amount of time required to represent, advise, and counsel IRWD with regard to matters related to municipal law, transactional and non-complex issues and rate-setting, and the estimated amount of time required to coordinate with the District’s other legal counsel.

Staff recommends that the Board authorize the General Manager to enter into a Professional Services Agreement with Hanson Bridgett. Staff’s recommendation is made recognizing that the rates proposed by Hanson Bridgett appropriate, and that the service provided by Claire Collins and her colleagues continues to be strong. The proposed contract term would run from January 1, 2021, until December 31, 2021, at which time the Board may evaluate legal counsel’s performance and may consider extending the term of the contract.

FISCAL IMPACTS:

The total not-to-exceed amount for the variance is \$1,050,000. If approved by the Board, the variance will be charged against the Fiscal Year 2020-2021 and Fiscal Year 2021-2022 Operating Budgets, as appropriate. Legal services related to capital projects will be billed to the capital budgets, as appropriate.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

This item was not reviewed by a Committee.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE A PROFESSIONAL SERVICES AGREEMENT WITH HANSON BRIDGETT LLP FOR GENERAL COUNSEL LEGAL SERVICES FOCUSED ON MUNICIPAL LAW, TRANSACTIONAL AND NON-COMPLEX ISSUES, AND RATE-SETTING WITH A TERM OF JANUARY 1, 2021, TO DECEMBER 31, 2021, AND A NOT-TO-EXCEED VALUE OF \$1,050,000.

LIST OF EXHIBITS:

Exhibit "A" – Summary of the Scope of Work and Current Hourly Rates of Hanson Bridgett

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EXHIBIT "A"

HANSON BRIDGETT LLP SUMMARY OF THE SCOPE OF WORK AND PROPOSED HOURLY RATES FOR 2021

Hanson Bridgett LLP will provide general counsel legal services and representation to IRWD and its subsidiaries, and other affiliates. The firm will perform the work, duties, and responsibilities consistent with the position of general counsel for IRWD and its subsidiaries and other affiliates understanding that the firm's roles as general counsel will be to:

1. Provide expert legal advice to IRWD and its subsidiaries and other affiliates;
2. Independently represent IRWD and its subsidiaries and other affiliates in a variety of matters and forums; and
3. Develop and implement proactive legal strategies to position IRWD and its subsidiaries and other affiliates to best meet its legal, regulatory, and policy objectives.

The scope of the general counsel services provided by Hanson Bridgett to IRWD will consist of a broad range of legal services including regulatory and public policy tracking, interpretation, advice, counsel, legal representation and other services with respect to a variety of legal areas such as:

A. TYPICAL AREAS OF MUNICIPAL LAW, INCLUDING:

1. Agenda and Agenda Item Review;
2. Basic CEQA and Other Environmental Document Review;
3. Brown Act and Open Meeting Compliance;
4. Claims Processing;
5. Collections;
6. Cortese-Knox-Hertzberg Local Government Reorganization Act;
7. Election Procedures and Challenges;
8. Fair Political Practices Commission Regulations and Political Reform Act;
9. Joint Powers Authorities;
10. Non-complex Litigation;
11. Ordinance, Rule and Regulation Creation and Adoption;
12. Public Contracting and Prevailing Wage;
13. Public Records Act;
14. Public Works Bidding;
15. Real Property;
16. Records Retention and Destruction;
17. Review of Contracts and Other Legal Documents; and
18. Tort Claims.

B. LAWS AND REGULATIONS GOVERNING CALIFORNIA WATER DISTRICTS, INCLUDING:

1. California Government Code;
2. California Health and Safety Code;
3. California Water Code;
4. California Water District Code;
5. Clean Water Act;
6. Porter-Cologne Water Quality Control Act;
7. Sustainable Groundwater Management Act;
8. Safe Drinking Water Act;
9. Urban Water Management Planning Act; and
10. Other Water and Wastewater Laws and Regulations.

C. LAWS AND REGULATIONS RELATED TO WATER AND SEWER SERVICE RATE SETTING, INCLUDING:

1. Case law related to water and sewer service rates;
2. Proposition 26;
3. Proposition 218; and
4. Other statutes affecting water and sewer rates and charges.

D. COORDINATION AND MANAGEMENT OF SPECIAL COUNSEL

Hourly Rates through December 31, 2021:

Partners:	\$383.00 per hour
Counsel/Sr. Counsel:	\$347.00 per hour
Associates/Other Attorneys:	\$310.00 per hour
Practice Support Analysts:	\$250.00 per hour
Paralegals & Law Clerks:	\$175.00 per hour

November 23, 2020
Prepared and
submitted by: C. Compton
Approved by: Paul A. Cook



CONSENT CALENDAR

2021-2022 IRWD LOBBYING AND ADVOCACY SERVICES

SUMMARY:

Irvine Ranch Water District's current 24-month contracts with Kadesh & Associates for Federal lobbying and consulting services, with The Oñate Group and Quintana, Watts & Hartmann (which has re-organized as Resolute) for State legislative lobbying and consulting services, and Cliff Moriyama Consulting for State regulatory agency lobbying and consulting services will expire on December 31, 2020. Each of these firms has provided a high level of service, knowledge, credibility and access to the federal and state officials and agencies they engage with on behalf of the District. Based on their qualifications and strategic ability to influence policy decisions, staff recommends entering into new 24-month agreements with each of these firms for the 2021-2022 legislative sessions.

BACKGROUND:

IRWD continues to be a leader in water resources public policy and governance. During 2019 and 2020, the District engaged in a number of federal and state policy discussions regarding water infrastructure, supply reliability and governance. The District was assisted in these discussions by both its federal and state lobbyists and consultants.

Many of the policy discussions are expected to carry over into the 2021-2022 legislative sessions. Entering into 24-month contracts with Kadesh & Associates, The Oñate Group, Resolute, and Cliff Moriyama Consulting will allow the District to maintain continuity in its Washington, D.C. and Sacramento representation throughout the 2021-2022 sessions.

Federal Lobbyist and Advocate:

Kadesh & Associates provides the District with a high level of service, knowledge, credibility and access in Washington, D.C. Additionally, Kadesh & Associates assists the District in ongoing efforts to build and maintain relationships with key policy makers in Congress, the Administration and within federal agencies.

To aid IRWD in its federal advocacy efforts, staff recommends the Board authorize the execution of new Professional Services Agreements with Kadesh & Associates for a 24-month period, beginning January 1, 2021, through December 31, 2022. The new contract would each include a \$10,200 monthly retainer plus reimbursement of reasonable direct expenses for a total amount not to exceed \$265,000. The proposed new agreement reflects a two percent increase in the amount of the monthly retainer, but not an increase in the total contract amount.

State Legislative Lobbyist and Advocate:

The Oñate Group and Resolute provide the District with a high level of service, knowledge, credibility and access in Sacramento. Additionally, The Oñate Group and Resolute assist the District in ongoing efforts to build and maintain relationships with key policy makers in the Governor's Office and the Legislature.

To aid IRWD in its State advocacy efforts, the General Manager, within his authority, will execute a new sole-source Professional Services Agreement with The Oñate Group and with Resolute for a 24-month period, beginning January 1, 2021, through December 31, 2022. The new contracts would each include a \$5,150 monthly retainer plus reimbursement of reasonable direct expenses for a total amount not to exceed \$128,750. The proposed new agreement reflects a three percent increase in the amount of the monthly retainer or the total contract amount.

State Regulatory Lobbyist and Advocate:

Cliff Moriyama Consulting provides the District with a high level of service, knowledge, credibility and access in Sacramento. Additionally, Cliff Moriyama Consulting assists the District in ongoing efforts to build and maintain relationships with key policy makers in the Governor's Office and State agencies.

To aid IRWD in its State advocacy efforts, the General Manager, within his authority, will execute a new sole-source Professional Services Agreement with Cliff Moriyama Consulting for a 24-month period, beginning January 1, 2021, through December 31, 2022. The new contract would include a \$4,000 monthly retainer plus reimbursement of reasonable direct expenses for a total contract amount not to exceed \$100,000. The proposed new agreement reflects no increase in the amount of the monthly retainer or the total contract amount.

FISCAL IMPACTS:

The current contracts with Kadesh & Associates, The Oñate Group, Resolute, and Cliff Moriyama Consulting expire on December 31, 2020. Cumulatively they are \$24,000 per month plus reimbursement of reasonable direct expenses. The current contract is for a 24-month term and has a not-to-exceed value of \$615,000.

The proposed contract with Kadesh & Associates, The Oñate Group, Resolute, and Cliff Moriyama Consulting would be effective from January 1, 2021, through December 31, 2022, and is proposed at a cumulative amount of \$24,500 per month plus reimbursement of reasonable direct expenses. If approved by the Board, the new contract will be charged against the FY 2020-2021, FY 2021-2022 and FY 2022-2023 Operating Budgets. The total requested contract authorization is \$622,500.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

This item was reviewed by the Water Resources Policy and Communications Committee on November 4, 2020.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE A PROFESSIONAL SERVICES AGREEMENT WITH KADESH & ASSOCIATES FOR FEDERAL ADVOCACY SERVICES FOR THE PERIOD OF JANUARY 1, 2021, THROUGH DECEMBER 31, 2022, AT A RATE OF \$10,200 PER MONTH PLUS REASONABLE REIMBURSEMENT OF DIRECT EXPENSES FOR A TOTAL CONTRACT AMOUNT NOT TO EXCEED \$265,000.

LIST OF EXHIBITS:

None.

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November 23, 2020
Prepared by: L. Srader
Submitted by: J. Roney
Approved by: Paul A. Cook



CONSENT CALENDAR

ADOPTION OF A REVISED SCHEDULE OF POSITIONS AND SALARY RATE RANGES

SUMMARY:

Staff recommends the Board adopt a resolution rescinding Resolution No. 2020-12 and revising the District's Schedule of Positions and Salary Rate Ranges.

BACKGROUND:

Staff determined that the position of *Environmental Compliance Analyst* should be added to account for the increased scope of activities within the Water Resources & Environmental Compliance Department. This new position has been filled, under the General Manager's authority, by the current *Environmental Compliance Specialist* who is well-qualified for the new *Analyst* position.

When a change such as this is made, CalPERS requires that the employment position and pay rate be identified in a publicly available pay schedule (CalPERS Regulations, 2 CCR 570.5). Staff recommends the Board adopt a resolution adopting the proposed changes to the IRWD Salary Grade Schedules, provided as Exhibit "A" (which supersedes Resolution No. 2020-12), effective November 23, 2020.

FISCAL IMPACTS:

The Environmental Compliance Analyst position will be added at Salary Grade U12.E. There are sufficient funds included in the Fiscal Year 2020-21 Operating Budget to account for this change.

ENVIRONMENTAL COMPLIANCE:

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

COMMITTEE STATUS:

This item was not reviewed by a Committee.

RECOMMENDATION:

THAT THE BOARD ADOPT THE FOLLOWING RESOLUTION BY TITLE:

RESOLUTION NO. 2020 -

RESOLUTION OF THE BOARD OF DIRECTORS OF THE
IRVINE RANCH WATER DISTRICT RESCINDING
RESOLUTION NO. 2020-12 AND ADOPTING A REVISED
SCHEDULE OF POSITIONS AND SALARY RATE RANGES

LIST OF EXHIBITS:

Exhibit "A" – Resolution of the Board of Directors of the Irvine Ranch Water District

Exhibit "A"

RESOLUTION NO. 2020 -

RESOLUTION OF THE BOARD OF DIRECTORS
OF IRVINE RANCH WATER DISTRICT,
SUPERSEDING RESOLUTION NO. 2020-12 AND
ADOPTING A REVISED SCHEDULE OF POSITIONS
AND SALARY RATE RANGES

The Board of Directors of Irvine Ranch Water District, by adoption of Resolution No. 2020-12 on June 8, 2020, established a Schedule of Positions and Salary Rate Ranges of the Irvine Ranch Water District; and

The Board of Directors of Irvine Ranch Water District have reviewed the Schedule of Positions and Salary Rate Ranges and desires to make revisions thereto.

The Board of Directors of Irvine Ranch Water District does hereby resolve, determine and order as follows:

Section 1. That the Schedule of Positions and Salary Rate Ranges adopted by Resolution No. 2020-12 on June 8, 2020 is hereby superseded effective November 23, 2020.

Section 2. That the Schedule of Positions and Salary Rate Ranges for the Irvine Ranch Water District as set forth in Schedule "I" attached to this Resolution, and as effective November 23, 2020 for all classifications, is hereby approved and adopted.

ADOPTED, SIGNED and APPROVED on November 23, 2020.

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:

Hanson Bridgett LLP

By: _____
District Counsel

Schedule "I"

IRVINE RANCH WATER DISTRICT
MONTHLY SALARY GRADE SCHEDULE

Managers, Exempt Supervisors, Confidential & Exempt Employees

Effective November 23, 2020

	MINIMUM	MAXIMUM	EXCEPTIONAL PERFORMANCE TOP OF RANGE
NON-EXEMPT			
Salary Grade U1.N	\$3,055	\$3,788	\$3,977
Salary Grade U2.N	\$3,122	\$3,892	\$4,087
Salary Grade U3.N	\$3,187	\$3,999	\$4,199
Salary Grade U4.N	\$3,246	\$4,116	\$4,321
Salary Grade U5.N	\$3,320	\$4,229	\$4,441
Salary Grade U6.N	\$3,385	\$4,352	\$4,570
Salary Grade U7.N	\$3,453	\$4,473	\$4,698
Salary Grade U8.N	\$3,528	\$4,601	\$4,831
Salary Grade U9.N	\$3,595	\$4,728	\$4,967
Salary Grade U10.N	\$3,670	\$4,858	\$5,099
Salary Grade U11.N	\$3,741	\$4,982	\$5,228
Salary Grade U12.N	\$3,815	\$5,128	\$5,385
Salary Grade U13.N	\$3,886	\$5,274	\$5,541
Salary Grade U14.N	\$3,974	\$5,424	\$5,696
Salary Grade U15.N	\$4,059	\$5,568	\$5,846
Salary Grade U16.N	\$4,155	\$5,724	\$6,009
Salary Grade U17.N	\$4,243	\$5,867	\$6,160
Salary Grade U18.N	\$4,336	\$6,024	\$6,327
Salary Grade U19.N	\$4,435	\$6,176	\$6,487
Safety Assistant			
Salary Grade U20.N	\$4,553	\$6,376	\$6,696

	MINIMUM	MAXIMUM	EXCEPTIONAL PERFORMANCE TOP OF RANGE
Salary Grade U21.N	\$4,683	\$6,569	\$6,900
Salary Grade U22.N	\$4,811	\$6,776	\$7,115
Executive Secretary Human Resources Assistant			
Salary Grade U23.N	\$4,938	\$6,981	\$7,328
Salary Grade U24.N	\$5,078	\$7,198	\$7,559
Salary Grade U25.N	\$5,211	\$7,419	\$7,792
Human Resources Technician			
Salary Grade U26.N	\$5,373	\$7,641	\$8,024
Executive Assistant			
Salary Grade U27.N	\$5,527	\$7,866	\$8,258
Salary Grade U28.N	\$5,689	\$8,098	\$8,505
Salary Grade U29.N	\$5,859	\$8,334	\$8,752
Administrative Assistant Safety Specialist			
Salary Grade U30.N	\$6,036	\$8,581	\$9,011
Salary Grade U31.N	\$6,215	\$8,839	\$9,281
Human Resources Analyst			
Salary Grade U32.N	\$6,393	\$9,100	\$9,555
Salary Grade U33.N	\$6,580	\$9,365	\$9,834
Network Administrator User Support Administrator			
Salary Grade U34.N	\$6,776	\$9,624	\$10,107
Salary Grade U35.N	\$6,980	\$9,913	\$10,409

	MINIMUM	MAXIMUM	EXCEPTIONAL PERFORMANCE TOP OF RANGE
EXEMPT			
Salary Grade U1.E	\$4,913	\$6,312	\$6,627
Salary Grade U2.E	\$5,077	\$6,557	\$6,885
Salary Grade U3.E	\$5,239	\$6,801	\$7,144
Salary Grade U4.E	\$5,403	\$7,063	\$7,415
Salary Grade U5.E	\$5,568	\$7,324	\$7,691
Salary Grade U6.E	\$5,760	\$7,608	\$7,989
Salary Grade U7.E	\$5,944	\$7,890	\$8,283
Salary Grade U8.E	\$6,138	\$8,198	\$8,608
Salary Grade U9.E	\$6,325	\$8,499	\$8,922
Salary Grade U10.E	\$6,535	\$8,820	\$9,261
Asset Systems Analyst Assistant Engineer Customer Service Supervisor Development Services Supervisor Management Analyst Public Affairs Analyst Senior Public Affairs Specialist			
Salary Grade U11.E	\$6,745	\$9,146	\$9,605
Purchasing Supervisor			
Salary Grade U12.E	\$6,963	\$9,498	\$9,970
Environmental Compliance Analyst Financial Analyst Regulatory Compliance Administrator Senior Accountant Senior Water Efficiency Analyst Source Control Program Administrator Water Efficiency Supervisor			
Salary Grade U13.E	\$7,189	\$9,842	\$10,333
GIS Supervisor Legislative Analyst Right of Way Agent Senior Human Resources Analyst Treasury Analyst Water Resources Planner			

	MINIMUM	MAXIMUM	EXCEPTIONAL PERFORMANCE TOP OF RANGE
Salary Grade U14.E	\$7,422	\$10,221	\$10,732
Accounting Supervisor			
Associate Engineer			
District Secretary			
QA/QC Compliance Administrator			
Salary Grade U15.E	\$7,658	\$10,604	\$11,132
Applications Analyst			
Automation Programmer			
Laboratory Supervisor			
Senior Regulatory Compliance Administrator			
Senior SCADA Network Administrator			
Senior Network Administrator			
Salary Grade U16.E	\$7,914	\$11,004	\$11,556
Salary Grade U17.E	\$8,166	\$11,409	\$11,978
Construction Inspection Manager			
Customer Service Manager			
Engineer			
Facilities/Fleet Manager			
Purchasing Manager			
Safety Manager			
Salary Grade U18.E	\$8,431	\$11,844	\$12,434
Collection Systems Manager			
Construction Services Manager			
Cybersecurity Analyst			
Electrical and Instrumentation Manager			
Field Services Manager			
Natural Resources Manager			
Public Affairs Manager			
Regulatory Compliance Manager			
Senior Applications Analyst			
Senior Applications Developer			
Senior Database Administrator			
Water Efficiency Manager			
Water Quality Manager			
Salary Grade U19.E	\$8,698	\$12,281	\$12,897
Manager of Risk & Contracts Administration			
Mechanical Services Manager			
Recycled Water Development Manager			
Treasury Manager			
Water Resources Manager			

	MINIMUM	MAXIMUM	EXCEPTIONAL PERFORMANCE TOP OF RANGE
Salary Grade U20.E Automation Manager Operations Manager Reliability Engineer Senior Engineer User Support Manager	\$8,969	\$12,737	\$13,373
Salary Grade U21.E Controller Manager of Strategic Planning and Analysis	\$9,242	\$13,197	\$13,857
Salary Grade U22.E Applications Manager Network and Cybersecurity Manager	\$9,539	\$13,687	\$14,373
Salary Grade U23.E Principal Engineer	\$9,841	\$14,183	\$14,893
Salary Grade U24.E Engineering Manager	\$10,108	\$14,755	\$15,490
Salary Grade U25.E Government Relations Officer/Deputy General Counsel	\$10,420	\$15,312	\$16,077
Salary Grade U26.E	\$10,896	\$16,122	\$16,928
Salary Grade U27.E Director of Field Operations Director of Human Resources Director of Information Services Director of Maintenance Director of Public Affairs Director of Recycling Operations Director of Water Quality & Regulatory Compliance Director of Water Resources Treasurer/Director of Risk Management	\$11,394	\$16,977	\$17,824
Salary Grade U28.E	\$11,918	\$17,870	\$18,763
Salary Grade U29.E	\$12,462	\$18,816	\$19,756
Salary Grade U30.E Executive Director of Finance Executive Director of Technical Services Executive Director of Operations Executive Director of Water Policy	\$13,038	\$19,816	\$20,805
Salary Grade U31.E	\$13,686	\$20,939	\$21,985

	MINIMUM	MAXIMUM	EXCEPTIONAL PERFORMANCE TOP OF RANGE
Salary Grade U32.E	\$14,372	\$22,131	\$23,238
Salary Grade U33.E	\$15,087	\$23,388	\$24,557
Salary Grade U34.E General Manager	\$15,844	\$24,715	\$27,338

IRVINE RANCH WATER DISTRICT
MONTHLY SALARY GRADE SCHEDULE
Non-Exempt Supervisors Unit
Effective November 23, 2020

	MINIMUM	MAXIMUM	EXCEPTIONAL PERFORMANCE TOP OF RANGE
<u>NON-EXEMPT</u>			
Salary Grade S26.N	\$5,373	\$7,641	\$8,024
Salary Grade S27.N	\$5,527	\$7,866	\$8,258
Salary Grade S28.N	\$5,689	\$8,098	\$8,505
Salary Grade S29.N	\$5,859	\$8,334	\$8,752
Salary Grade S30.N	\$6,036	\$8,581	\$9,011
Salary Grade S31.N Facilities Services Supervisor Fleet Supervisor	\$6,215	\$8,839	\$9,281
Salary Grade S32.N Collection Systems Supervisor Mechanical Services Supervisor	\$6,393	\$9,100	\$9,555
Salary Grade S33.N Cross Connection Supervisor Water Maintenance Supervisor	\$6,580	\$9,365	\$9,834
Salary Grade S34.N Construction Inspection Supervisor Automation Supervisor Electrical Supervisor Instrumentation Supervisor Water Monitoring Supervisor	\$6,776	\$9,624	\$10,107
Salary Grade S35.N Operations Supervisor	\$6,980	\$9,913	\$10,409

IRVINE RANCH WATER DISTRICT
MONTHLY SALARY GRADE SCHEDULE
General Employees Unit
Effective November 23, 2020

	MINIMUM	MAXIMUM	EXCEPTIONAL PERFORMANCE TOP OF RANGE
<u>NON-EXEMPT</u>			
Salary Grade 1.N	\$3,049	\$3,781	\$3,970
Salary Grade 2.N	\$3,115	\$3,884	\$4,078
Salary Grade 3.N	\$3,182	\$3,992	\$4,191
Salary Grade 4.N	\$3,240	\$4,107	\$4,312
Salary Grade 5.N	\$3,312	\$4,221	\$4,433
Salary Grade 6.N	\$3,378	\$4,344	\$4,561
	Office Assistant Mail Coordinator		
Salary Grade 7.N	\$3,444	\$4,464	\$4,688
Salary Grade 8.N	\$3,521	\$4,593	\$4,822
Salary Grade 9.N	\$3,590	\$4,719	\$4,954
Salary Grade 10.N	\$3,661	\$4,847	\$5,087
Salary Grade 11.N	\$3,733	\$4,973	\$5,219
	Maintenance Apprentice Material Control Clerk I Utility Worker		
Salary Grade 12.N	\$3,807	\$5,117	\$5,375
Salary Grade 13.N	\$3,878	\$5,265	\$5,526
	Customer Service Specialist I Support Specialist		
Salary Grade 14.N	\$3,966	\$5,412	\$5,683
Salary Grade 15.N	\$4,051	\$5,557	\$5,836
	Collection Systems Technician I Office Specialist		
Salary Grade 16.N	\$4,146	\$5,713	\$5,997
	Accounting Clerk Customer Service Field Technician		

	MINIMUM	MAXIMUM	EXCEPTIONAL PERFORMANCE TOP OF RANGE
Metering Systems Technician I Water Maintenance Technician I			
Salary Grade 17.N	\$4,234	\$5,854	\$6,146
Customer Service Specialist II			
Salary Grade 18.N	\$4,326	\$6,013	\$6,312
Material Control Clerk II Senior Support Specialist Water Efficiency Field Technician			
Salary Grade 19.N	\$4,426	\$6,165	\$6,473
Development Services Specialist Purchasing Coordinator Senior Office Specialist			
Salary Grade 20.N	\$4,544	\$6,362	\$6,681
Collection Systems Technician II Engineering Technician I GIS Technician I Operator I Senior Accounting Clerk			
Salary Grade 21.N	\$4,672	\$6,555	\$6,885
Collection Systems CCTV Technician Customer Service Specialist III Senior Customer Service Field Technician			
Salary Grade 22.N	\$4,801	\$6,762	\$7,101
Facilities Services Technician Maintenance Mechanic Metering Systems Technician II Risk Assistant Senior Purchasing Coordinator Vehicle/Equipment Mechanic Water Maintenance Technician II			
Salary Grade 23.N	\$4,927	\$6,966	\$7,314
Senior Water Efficiency Field Technician			
Salary Grade 24.N	\$5,067	\$7,185	\$7,543
Buyer Public Affairs Assistant Recycled Water Specialist Water Loss Prevention Specialist Wetlands Specialist			

	MINIMUM	MAXIMUM	EXCEPTIONAL PERFORMANCE TOP OF RANGE
Salary Grade 25.N Engineering Technician II GIS Technician II Senior Collection Systems CCTV Technician Senior Collection Systems Technician	\$5,200	\$7,405	\$7,777
Salary Grade 26.N Cross Connection Specialist Metering Systems Technician III Water Efficiency Specialist Water Maintenance Technician III Water Resources Specialist	\$5,360	\$7,626	\$8,006
Salary Grade 27.N Accountant Operator II Senior Facilities Services Technician Senior Maintenance Mechanic Senior Water Loss Prevention Specialist Senior Vehicle/Equipment Maintenance Mechanic	\$5,516	\$7,849	\$8,241
Salary Grade 28.N Automation Technician Construction Inspector Electrical Technician Instrumentation Technician Landscape Contracts Administrator Scientist	\$5,678	\$8,083	\$8,488
Salary Grade 29.N Engineering Technician III GIS Technician III Lead Maintenance Mechanic Operator III Public Affairs Specialist Senior Buyer Senior Recycled Water Specialist Senior Wetlands Specialist	\$5,847	\$8,319	\$8,733
Salary Grade 30.N Graphic Design Specialist Risk Analyst Senior Electrical Technician Senior Instrumentation Technician	\$6,024	\$8,564	\$8,994

	MINIMUM	MAXIMUM	EXCEPTIONAL PERFORMANCE TOP OF RANGE
Salary Grade 31.N Information Services Coordinator Payroll Administrator Recycled Water Project Specialist Senior Construction Inspector Senior Water Efficiency Specialist	\$6,201	\$8,822	\$9,261
Salary Grade 32.N Asset Maintenance Coordinator Automation Specialist Environmental Compliance Specialist Process Specialist Senior Scientist Wetlands Scientist	\$6,380	\$9,082	\$9,537
Salary Grade 33.N Operations Coordinator Water Efficiency Analyst	\$6,567	\$9,347	\$9,813
Salary Grade 34.N	\$6,762	\$9,605	\$10,086
Salary Grade 35.N	\$6,965	\$9,893	\$10,388

November 23, 2020

Prepared by: J. Davis / T. Fournier

Submitted by: R. Jacobson / C. Clary

Approved by: Paul A. Cook



CONSENT CALENDAR

OCTOBER 2020 TREASURY REPORT

SUMMARY:

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

- A. The October 2020 Investment Summary Report. This Investment Summary Report conforms with the 2020 Investment Policy and provides sufficient liquidity to meet estimated expenditures during the next six months, as outlined in Exhibit "A";
- B. The Summary of Fixed and Variable Rate Debt as of October 31, 2020, as outlined in Exhibit "B";
- C. The Monthly Interest Rate Swap Summary as of October 31, 2020, as outlined in Exhibit "C";
- D. The October 31, 2020 Disbursement Summary of warrants 412075 through 413086, wire transfers, Workers' Compensation distributions, payroll withholding distributions, and voided checks in the total amount of \$30,169,398, as outlined in Exhibit "D";
- E. The Summary of Payroll ACH payments in the total amount of \$2,154,188, as outlined in Exhibit "E"; and
- F. The Disclosure Report of Reimbursements to Board members and staff for October 2020, detailing payments or reimbursements for individual charges of \$100.00 or more per transaction, as outlined in Exhibit "F".

FISCAL IMPACTS:

As of October 31, 2020, the book value of the investment portfolio was \$400,855,121, with a 1.08% rate of return and a market value of \$403,360,360. Based on IRWD's September 30, 2020 quarterly real estate investment rate of return of 7.80%, the weighted average return for the fixed income and real estate investments was 3.19%.

As of October 31, 2020, the outstanding principal amount of fixed and variable rate debt was \$646,245,000. The monthly weighted average all-in variable rate was 0.40%. Including IRWD's weighted average fixed rate bond issues of 3.69% and the previous month's negative cash accruals from fixed payer interest rate swaps, which hedge a portion of the District's variable rate debt, the total average debt rate was 2.91%.

Payroll ACH payments totaled \$2,154,188, and wire transfers, all other ACH payments, and checks issued for debt service, accounts payable, payroll, and water purchases for October totaled \$30,169,398.

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 debt reports are submitted to the Finance and Personnel Committee on a monthly basis.

RECOMMENDATION:

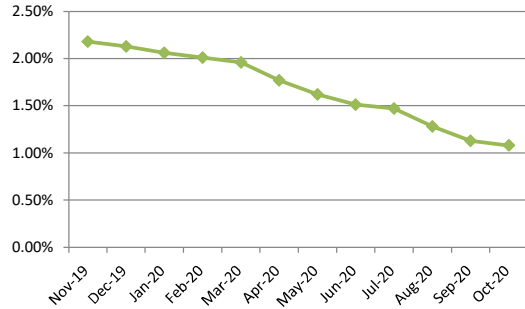
THAT THE BOARD RECEIVE AND FILE THE TREASURER'S INVESTMENT SUMMARY REPORT, THE SUMMARY OF FIXED AND VARIABLE RATE DEBT, AND DISCLOSURE REPORT OF REIMBURSEMENTS TO BOARD MEMBERS AND STAFF, APPROVE THE OCTOBER 2020 SUMMARY OF PAYROLL ACH PAYMENTS IN THE TOTAL AMOUNT OF \$2,154,188, AND APPROVE THE OCTOBER 2020 ACCOUNTS PAYABLE DISBURSEMENT SUMMARY OF WARRANTS 412075 THROUGH 413086, WORKERS' COMPENSATION DISTRIBUTIONS, WIRE TRANSFERS, PAYROLL WITHHOLDING DISTRIBUTIONS AND VOIDED CHECKS IN THE TOTAL AMOUNT OF \$30,169,398.

LIST OF EXHIBITS:

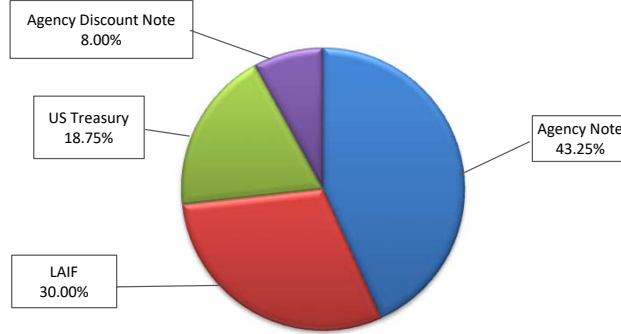
- Exhibit "A" – Investment Summary Report
- Exhibit "B" – Summary of Fixed and Variable Debt
- Exhibit "C" – Monthly Interest Rate Swap Summary
- Exhibit "D" – Monthly Summary of District Disbursements
- Exhibit "E" – Monthly Payroll ACH Summary
- Exhibit "F" – Disclosure of Reimbursements to Board Members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

Exhibit "A"
**Irvine Ranch Water District
Investment Portfolio Summary
October 2020**

Monthly Fixed Income Yield



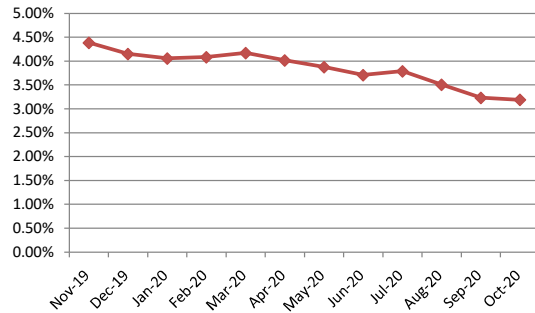
Portfolio Distribution



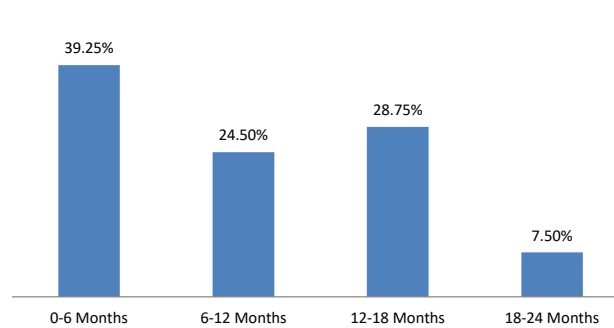
Investment Summary

Type	PAR	Book Value	Market Value
Agency Note	173,000,000	173,632,532	174,694,850
US Treasury	120,000,000	120,259,525	121,598,600
LAIF	75,000,000	75,000,000	75,308,590
Agency Discount Note	32,000,000	31,963,064	31,758,320
Grand Total	400,000,000	400,855,121	403,360,360

**Weighted Average Return
Including Real Estate Portfolio**



Maturity Distribution



Top Issuers

Issuer	PAR	% Portfolio
US Treasury	120,000,000	30.00%
Fed Home Loan Bank	87,000,000	21.75%
State of California Tsy	75,000,000	18.75%
Fed Farm Credit Bank	70,000,000	17.50%
Fed Home Loan Mortgage Corp	25,000,000	6.25%
Fed Natl Mortgage Assoc	23,000,000	5.75%
Grand Total	400,000,000	100.00%

IRVINE RANCH WATER DISTRICT
INVESTMENT SUMMARY REPORT

10/31/20

SETTLMT	Call Schedule	Initial Call	Maturity Date	Rating	INVESTMENT TYPE	INSTITUTION / ISSUER	PAR Amount	COUPON DISCOUNT	YIELD	ORIGINAL COST	CARRY VALUE	MARKET VALUE ⁽¹⁾ 10/31/2020	UNREALIZED ⁽²⁾ GAIN/(LOSS)
07/24/20			11/01/20		LAIF	State of California Tsy.	\$75,000,000		0.620%	\$75,000,000.00	\$75,000,000.00	75,308,590.05	308,590.05
09/28/18	NA	NA	10/31/20	Aaa/NR/AAA	Treasury - Note	US Treasury	5,000,000	1.750%	2.847%	4,889,453.13	4,778,906.26	5,000,000.00	221,093.74
03/16/20	NA	NA	11/18/20	NR	FHLB - Discount Note	Fed Home Loan Bank	7,000,000	0.530%	0.540%	6,974,545.28	6,990,312.78	6,999,720.00	9,407.22
11/30/17	NA	NA	11/24/20	Aaa/AA+/AAA	FFCB - Note	Fed Farm Credit Bank	5,000,000	1.850%	1.964%	4,983,550.00	4,999,652.89	5,005,200.00	5,547.11
12/20/17	NA	NA	12/28/20	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	1.875%	2.023%	4,978,400.00	4,996,889.13	5,014,150.00	17,260.87
11/09/18	NA	NA	12/31/20	Aaa/NR/AAA	Treasury - Note	US Treasury	5,000,000	2.375%	2.958%	4,939,843.75	4,995,390.33	5,017,800.00	22,409.67
03/31/20	NA	NA	01/19/21	NR	FHLB - Discount Note	Fed Home Loan Bank	5,000,000	0.200%	0.204%	4,991,833.33	4,996,083.33	4,998,900.00	2,816.67
10/12/18	NA	NA	01/31/21	Aaa/NR/AAA	Treasury - Note	US Treasury	10,000,000	1.375%	2.890%	9,664,843.76	9,963,777.65	10,029,700.00	65,922.35
12/14/18	NA	NA	02/16/21	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	2.375%	2.806%	4,954,750.00	4,992,885.22	5,032,550.00	39,664.78
08/13/20	NA	NA	02/25/21	Aaa/NR/AAA	Treasury - Bill	US Treasury	10,000,000	0.110%	0.112%	9,994,011.11	9,996,455.55	9,996,800.00	344.45
12/14/18	NA	NA	02/28/21	Aaa/NR/AAA	Treasury - Note	US Treasury	5,000,000	2.000%	2.755%	4,919,515.95	4,986,336.66	5,030,850.00	44,513.34
02/12/19	NA	NA	03/12/21	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	10,000,000	2.500%	2.516%	9,996,500.00	9,999,395.92	10,086,300.00	86,904.08
02/25/19	NA	NA	03/12/21	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	2.375%	2.549%	4,982,700.00	4,996,962.06	5,040,650.00	43,687.94
06/17/19	NA	NA	03/17/21	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	5,000,000	1.950%	1.938%	5,001,050.00	5,000,223.47	5,034,650.00	34,426.53
02/28/20	NA	NA	04/13/21	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	3,000,000	2.500%	1.185%	3,043,950.00	3,027,549.15	3,031,650.00	4,100.85
06/14/19	NA	NA	04/30/21	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	1.750%	1.913%	4,985,000.00	4,996,064.14	5,039,950.00	43,885.86
12/05/19	NA	NA	04/30/21	Aaa/NR/AAA	Treasury - Note	US Treasury	5,000,000	2.250%	1.650%	5,041,406.25	5,014,556.88	5,052,750.00	38,193.12
09/13/19	NA	NA	05/15/21	Aaa/NR/AAA	Treasury - Note	US Treasury	5,000,000	2.625%	1.757%	5,071,093.75	5,022,726.69	5,067,200.00	44,473.31
03/02/20	NA	NA	05/31/21	Aaa/NR/AAA	Treasury - Note	US Treasury	10,000,000	2.125%	1.186%	10,115,711.10	10,076,801.65	10,114,800.00	37,998.35
06/11/20	NA	NA	06/09/21	NR	FHLB - Discount Note	Fed Home Loan Bank	5,000,000	0.190%	0.193%	4,990,420.85	4,994,194.45	4,996,350.00	2,155.55
09/18/19	NA	NA	06/11/21	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	2.250%	1.786%	5,039,300.00	5,013,804.75	5,064,200.00	50,395.25
01/16/20	NA	NA	06/30/21	Aaa/NR/AAA	Treasury - Note	US Treasury	5,000,000	1.125%	1.594%	4,966,406.25	4,984,753.12	5,033,200.00	48,446.88
07/26/19	NA	NA	07/19/21	Aaa/AA+/AAA	FFCB - Note	Fed Farm Credit Bank	5,000,000	1.875%	1.927%	4,995,000.00	4,998,204.42	5,062,450.00	64,245.58
08/13/20	NA	NA	08/12/21	NR	FFCB - Discount Note	Fed Farm Credit Bank	10,000,000	0.140%	0.142%	9,985,844.44	9,988,955.55	9,770,300.00	(218,655.55)
08/13/20	NA	NA	08/13/21	Aaa/NR/NR	FHLB - Note	Fed Home Loan Bank	10,000,000	0.125%	0.133%	9,999,220.00	9,999,390.96	9,989,800.00	(9,590.96)
08/01/19	NA	NA	08/31/21	Aaa/NR/AAA	Treasury - Note	US Treasury	5,000,000	1.125%	1.816%	4,929,687.50	4,972,004.35	5,041,000.00	68,995.65
09/17/20	NA	NA	09/17/21	NA	FHLB - Note	Fed Home Loan Bank	5,000,000	0.125%	0.132%	4,999,660.00	4,999,701.92	4,998,700.00	(1,001.92)
08/13/20	NA	NA	09/30/21	Aaa/AA+/NR	Treasury - Note	US Treasury	10,000,000	1.125%	0.133%	10,112,109.38	10,090,393.28	10,089,800.00	(593.28)
09/30/20	NA	NA	09/30/21	NA	FHLB - Note	Fed Home Loan Bank	10,000,000	0.125%	0.122%	10,000,336.80	10,000,307.27	10,000,500.00	192.73
08/13/20	NA	NA	10/07/21	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	10,000,000	1.375%	0.143%	10,141,500.00	10,114,547.62	10,114,700.00	152.38
10/11/19	NA	NA	10/15/21	Aaa/AA+/NR	Treasury - Note	US Treasury	5,000,000	2.875%	1.540%	5,131,640.63	5,062,327.81	5,129,300.00	66,972.19
10/22/19	NA	NA	10/15/21	Aaa/AA+/AAA	FFCB - Note	Fed Farm Credit Bank	5,000,000	1.400%	1.642%	4,976,500.00	4,988,704.42	5,059,800.00	71,095.58
10/29/20	NA	NA	10/19/21	Aaa/NR/NR	FHLB - Note	Fed Home Loan Bank	10,000,000	0.125%	0.127%	9,999,800.00	9,999,801.69	10,000,300.00	498.31
10/27/20	NA	NA	10/26/21	NR	FFCB - Discount Note	Fed Farm Credit Bank	5,000,000	0.130%	0.132%	4,993,427.78	4,993,518.06	4,993,050.00	(468.06)
11/05/19	NA	NA	11/15/21	Aaa/NR/AAA	Treasury - Note	US Treasury	5,000,000	2.875%	1.610%	5,125,585.94	5,064,233.56	5,140,650.00	76,416.44
11/08/19	NA	NA	11/30/21	Aaa/AA+/NR	Treasury - Note	US Treasury	5,000,000	1.750%	1.680%	5,007,031.25	5,003,679.03	5,086,350.00	82,670.97
09/28/20	NA	NA	12/03/21	Aaa/AA+/AAA	FFCB - Note	Fed Farm Credit Bank	5,000,000	0.150%	0.120%	5,001,765.00	5,001,625.77	4,999,050.00	(2,575.77)
10/30/20	NA	NA	12/15/21	Aaa/NR/AAA	Treasury - Note	US Treasury	5,000,000	2.625%	0.127%	5,140,429.69	5,139,746.33	5,138,300.00	(1,446.33)
04/23/20	NA	NA	12/20/21	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	10,000,000	1.625%	0.309%	10,217,480.00	10,162,571.68	10,169,000.00	6,428.32
11/25/19	NA	NA	12/31/21	Aaa/NR/AAA	Treasury - Note	US Treasury	5,000,000	2.000%	1.619%	5,039,062.50	5,021,644.80	5,107,250.00	85,605.20
11/25/19	NA	NA	01/13/22	Aaa/NA/NR	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	2.375%	1.635%	5,077,250.00	5,043,378.85	5,132,400.00	89,021.15
08/14/20	NA	NA	01/13/22	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	2.375%	0.147%	5,157,297.23	5,133,261.48	5,132,400.00	(861.48)
03/08/19	NA	NA	01/15/22	Aaa/AA+/NR	Treasury - Note	US Treasury	5,000,000	2.500%	2.460%	5,005,468.75	5,002,304.84	5,141,800.00	139,495.16
10/21/20	Continuous after	04/21/21	01/21/22	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	5,000,000	0.150%	0.150%	5,000,000.00	5,000,000.00	4,998,400.00	(1,600.00)
12/19/19	NA	NA	01/31/22	Aaa/NR/AAA	Treasury - Note	US Treasury	5,000,000	1.875%	1.641%	5,024,218.75	5,014,268.41	5,107,800.00	93,531.59
03/21/19	NA	NA	02/03/22	Aaa/AA+/AAA	FFCB - Note	Fed Farm Credit Bank	5,000,000	2.030%	2.361%	4,954,350.00	4,980,044.43	5,115,950.00	135,905.57
12/19/19	NA	NA	02/15/22	Aaa/NR/AAA	Treasury - Note	US Treasury	5,000,000	2.500%	1.652%	5,089,453.13	5,053,399.78	5,151,550.00	98,150.22
03/08/19	NA	NA	03/11/22	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	2.500%	2.549%	5,002,750.00	5,001,238.63	5,158,750.00	157,511.37
12/19/19	NA	NA	03/31/22	Aaa/NR/AAA	Treasury - Note	US Treasury	5,000,000	1.875%	1.645%	5,025,585.94	5,015,818.44	5,121,700.00	105,881.56
02/21/20	NA	NA	04/14/22	Aaa/AA+/AAA	FFCB - Note	Fed Farm Credit Bank	5,000,000	1.400%	1.414%	4,998,500.00	4,998,852.49	5,087,650.00	88,797.51
04/23/20	NA	NA	04/21/22	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	10,000,000	1.580%	0.320%	10,250,200.00	10,186,962.64	10,204,100.00	17,137.36
05/28/20	One Time	05/26/21	05/26/22	Aaa/NR/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	0.270%	0.270%	5,000,000.00	5,000,000.00	5,000,800.00	800.00

IRVINE RANCH WATER DISTRICT
INVESTMENT SUMMARY REPORT

10/31/20

SETTLMT	Call Schedule	Initial Call	Maturity Date	Rating	INVESTMENT TYPE	INSTITUTION / ISSUER	PAR Amount	COUPON DISCOUNT	YIELD	ORIGINAL COST	CARRY VALUE	MARKET VALUE ⁽¹⁾ 10/31/2020	UNREALIZED ⁽²⁾ GAIN/(LOSS)
01/15/20	NA	NA	07/15/22	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	5,000,000	1.600%	1.594%	5,000,750.00	5,000,510.69	5,119,900.00	119,389.31
05/28/20	One Time	05/26/21	08/26/22	Aaa/NR/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	0.300%	0.300%	5,000,000.00	5,000,000.00	5,000,900.00	900.00
TOTAL INVESTMENTS							\$400,000,000			\$400,906,189.22	\$400,855,121.29	\$403,360,360.05	\$2,505,238.76

Petty Cash		3,400.00
Ck Balance	Bank of America	1,136,349.00
		<u>\$402,045,938.22</u>

⁽¹⁾ LAIF market value is as of the most recent quarter-end as reported by LAIF.

Security market values are determined using Bank of New York ("Trading Prices"), Bloomberg and/or broker dealer pricing.

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

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

Outstanding Variable Rate Debt	\$251,100,000
Net Outstanding Variable Rate Debt (Less \$60 million fixed-payer swaps)	\$191,100,000
Investment Balance:	\$402,045,938
Investment to Variable Rate Debt Ratio:	210%
Portfolio - Average Number of Days To Maturity	244

	Investment Portfolio	Real Estate ⁽³⁾ Portfolio	Weighted Avg. Return
October	1.08%	7.80%	3.19%
September	1.13%	7.80%	3.24%
Change	-0.05%		-0.05%

This Investment Summary Report is in conformity with the 2020 Investment Policy and provides sufficient liquidity to meet the next six months estimated expenditures.

*S - Step up

IRVINE RANCH WATER DISTRICT
SUMMARY OF MATURITIES

10/31/20

DATE	TOTAL	%	LAIF	Agency Notes	Agency Discount Notes	Municipal Bonds	US Treasury
10/20	\$80,000,000	20.00%	\$75,000,000				5,000,000
11/20	12,000,000	3.00%		5,000,000	7,000,000		
12/20	10,000,000	2.50%		5,000,000			5,000,000
01/21	15,000,000	3.75%			5,000,000		10,000,000
02/21	20,000,000	5.00%		5,000,000			15,000,000
03/21	20,000,000	5.00%		20,000,000			
04/21	13,000,000	3.25%		8,000,000			5,000,000
05/21	15,000,000	3.75%					15,000,000
06/21	15,000,000	3.75%		5,000,000	5,000,000		5,000,000
07/21	5,000,000	1.25%		5,000,000			
08/21	25,000,000	6.25%		10,000,000	10,000,000		5,000,000
09/21	25,000,000	6.25%		15,000,000			10,000,000
SUB-TOTAL	\$255,000,000	63.75%	\$75,000,000	\$78,000,000	27,000,000		\$75,000,000
13 Months - 3 YEARS							
10/01/2021 - 12/31/2021	70,000,000	17.50%		45,000,000			25,000,000
01/01/2022 - 3/31/2022	45,000,000	11.25%		25,000,000			20,000,000
04/01/2022 - 06/30/2022	20,000,000	5.00%		20,000,000			
07/01/2022 - 09/30/2022	10,000,000	2.50%		10,000,000			
10/01/2022 +	-						
	-						
	-						
	-						
	-						
TOTALS	\$400,000,000	100.00%	\$75,000,000	\$178,000,000	\$27,000,000		\$120,000,000

% OF PORTFOLIO 18.75% 44.50% 6.75% 30.00%

Irvine Ranch Water District
Summary of Real Estate - Income Producing Investments
9/30/2020

	ACQUISITION DATE	PROPERTY TYPE	OWNERSHIP INTEREST	ORIGINAL COST	MARKET VALUE 6/30/2020	ANNUALIZED RATE OF RETURN QUARTER ENDED 9/30/2020
Sycamore Canyon	Dec-92	Apartments	Fee Simple	\$ 43,550,810	\$ 152,340,625	19.73%
Wood Canyon Villas	Jun-91	Apartments	Limited Partner	\$ 6,000,000	\$ 30,432,947	8.52%
ITC (230 Commerce)	Jul-03	Office Building	Fee Simple	\$ 5,739,845	\$ 11,964,600	8.09%
Waterworks Business Pk.	Nov-08	Research & Dev.	Fee Simple	\$ 8,630,577	\$ 9,363,600	6.40%
Sand Canyon Professional Center - Medical Office	Jul-12	Medical Office	Fee Simple	\$ 8,648,594	\$ 11,444,400	9.36%
Sand Canyon Professional Center - General Office	Sep-20	Office Building	Fee Simple	\$ 25,985,968	\$ 28,770,000	0.00%
Total - Income Properties				\$ 98,555,794	\$ 215,546,172	11.09%
OTHER REAL ESTATE						
DESCRIPTION						
Serrano Summit - Promissory Note Payment received - 8/12/20	Sep-17	NA	NA	\$ 85,352,804	\$ 85,352,804	4.00%
Total - Income Producing Real Estate Investments				\$ 183,908,598	\$ 300,898,976	7.80%

IRVINE RANCH WATER DISTRICT INVESTMENT SUMMARY REPORT
INVESTMENT ACTIVITY
Oct-20

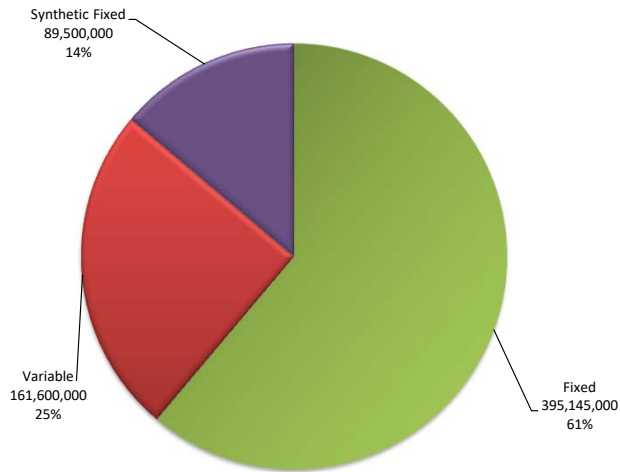
MATURITIES/SALES/CALLS

PURCHASES

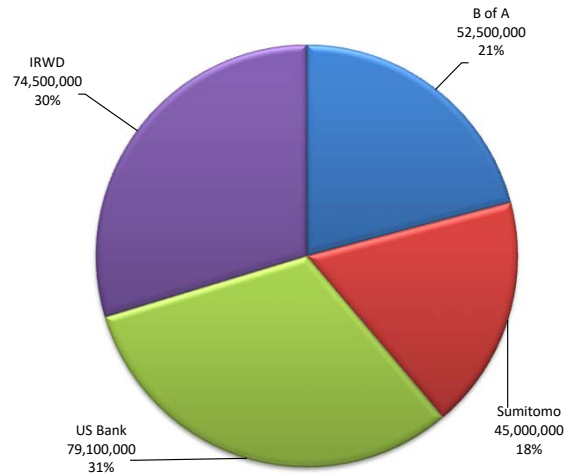
DATE	SECURITY TYPE	PAR	YIELD	Settlement Date	Maturity Date	SECURITY TYPE	PAR	YIELD TO MATURITY
10/21/2020	FHLMC - Note	\$5,000,000	0.56%	10/21/2020	1/21/2022	FFCB - Note	\$5,000,000	0.15%
10/27/2020	FHLMC - Note	\$10,000,000	0.55%	10/27/2020	10/26/2021	FFCB - Discount Note	\$5,000,000	0.13%
10/30/2020	FNMA - Note	\$5,550,000	1.85%	10/29/2020	10/19/2021	FHLB - Note	\$10,000,000	0.13%
10/30/2020	FHLB - Discount Note	\$5,000,000	0.15%	10/30/2020	12/15/2021	Treasury - Note	\$5,000,000	0.13%

Exhibit "B"
Irvine Ranch Water District
Summary of Fixed and Variable Rate Debt
October 2020

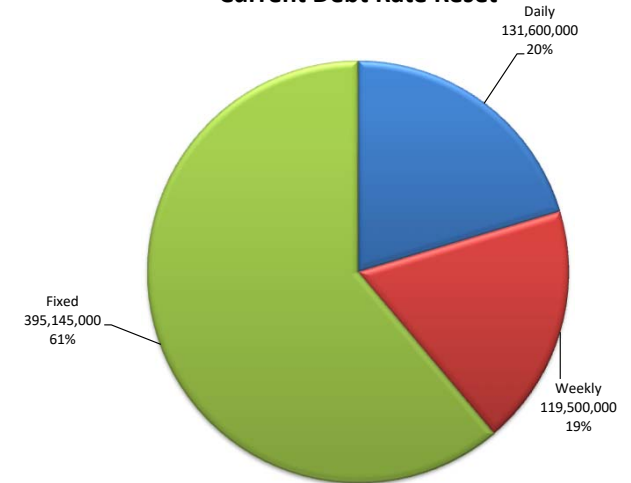
Current Debt Mix By Type



Letters of Credit / Support



Current Debt Rate Reset



Outstanding Par by Series

Series	Issue Date	Maturity Date	Remaining Principal	Percent	Letter of Credit/Support	Rmkt Agent	Mode	Reset
Series 1993	05/19/93	04/01/33	\$26,600,000	4.12%	US Bank	BAML	Variable	Daily
Series 2008-A Refunding	04/24/08	07/01/35	\$45,000,000	6.96%	Sumitomo	BAML	Variable	Weekly
Series 2011-A-1 Refunding	04/15/11	10/01/37	\$44,700,000	6.92%	IRWD	Goldman	Variable	Weekly
Series 2011-A-2 Refunding	04/15/11	10/01/37	\$29,800,000	4.61%	IRWD	Goldman	Variable	Weekly
Series 2009 - A	06/04/09	10/01/41	\$52,500,000	8.12%	US Bank	US Bank	Variable	Daily
Series 2009 - B	06/04/09	10/01/41	\$52,500,000	8.12%	B of A	Goldman	Variable	Daily
2016 COPS	09/01/16	03/01/46	\$116,745,000	18.07%	N/A	N/A	Fixed	Fixed
2010 Build America Taxable Bond	12/16/10	05/01/40	\$175,000,000	27.08%	N/A	N/A	Fixed	Fixed
Series 2016	10/12/16	02/01/46	\$103,400,000	16.00%	N/A	N/A	Fixed	Fixed
Total			\$646,245,000	100.00%				

IRVINE RANCH WATER DISTRICT
SUMMARY OF FIXED & VARIABLE RATE DEBT

October-20

ITN
Daily
Weekly

GENERAL BOND INFORMATION							LETTER OF CREDIT INFORMATION										TRUSTEE INFORMATION									
VARIABLE RATE ISSUES	Issue Date	Maturity Date	Principal Payment Date	Payment Date	Original Par Amount	Remaining Principal	Letter of Credit	Reimbursement Agreement Date	L/C Exp. Date	MOODY'S	S&P	FITCH	LOC Stated Amount	LOC Fee	Annual LOC Cost	Rmkt Agent	Reset	Rmkt Fees	Annual Cost	Trustee						
SERIES 1993	05/19/93	04/01/33	Apr 1	5th Bus. Day	\$38,300,000	\$26,600,000	US BANK	05/07/15	12/15/21	Aa3/VMIG1	AA-/A-1+	N/R	\$26,958,553	0.3300%	\$88,963	BAML	DAILY	0.10%	\$26,600	BANK OF NY						
SERIES 2008-A Refunding	04/24/08	07/01/35	Jul 1	5th Bus. Day	\$60,215,000	\$45,000,000	SUMITOMO	04/01/11	07/21/21	A1/P-1	A/A-1	A/F1	\$45,665,753	0.3150%	\$143,847	BAML	WED	0.07%	\$31,500	BANK OF NY						
SERIES 2011-A-1 Refunding	04/15/11	10/01/37	Oct 1	1st Bus. Day	\$60,545,000	\$44,700,000	N/A	N/A	N/A	Aa1/VMIG1	A-1+	AAA/F1+	N/A	N/A	N/A	Goldman	WED	0.13%	\$55,875	BANK OF NY						
SERIES 2011-A-2 Refunding	04/15/11	10/01/37	Oct 1	1st Bus. Day	\$40,370,000	\$29,800,000	N/A	N/A	N/A	Aa1/VMIG1	A-1+	AAA/F1+	N/A	N/A	N/A	Goldman	WED	0.13%	\$37,250	BANK OF NY						
SERIES 2009 - A	06/04/09	10/01/41	Oct 1	1st Bus. Day	\$75,000,000	\$52,500,000	US BANK	04/01/11	12/15/21	Aa2/VMIG 1	AA-/A-1+	AA/F1+	\$53,086,849	0.3300%	\$175,187	US Bank	DAILY	0.07%	\$36,750	US BANK						
SERIES 2009 - B	06/04/09	10/01/41	Oct 1	1st Bus. Day	\$75,000,000	\$52,500,000	B of A	04/01/11	05/16/22	Aa2/VMIG 1	A/A-1	A1/F1+	\$53,086,849	0.3000%	\$159,261	Goldman	DAILY	0.10%	\$52,500	US BANK						
					\$349,430,000	\$251,100,000	SUB-TOTAL VARIABLE RATE DEBT										\$178,798,005		0.3173%		\$567,258		0.10%		\$240,475	
																	(Wt. Avg)				(Wt. Avg)					
FIXED RATE ISSUES																										
2010 GO Build America Taxable Bonds	12/16/10	05/01/40	May (2025)	May/Nov	\$175,000,000	\$175,000,000	N/A	N/A	N/A	Aa1	AAA	NR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	US BANK						
2016 COPS	09/01/16	03/01/46	Mar (2021)	Mar/Sept	\$116,745,000	\$116,745,000	N/A	N/A	N/A	NR	AAA	AAA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	US BANK						
SERIES 2016	10/12/16	02/01/46	Feb (2022)	Feb/Aug	\$103,400,000	\$103,400,000	N/A	N/A	N/A	NR	AAA	AAA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	BANK OF NY						
					\$395,145,000	\$395,145,000	SUB-TOTAL FIXED RATE DEBT																			
					\$744,575,000	\$646,245,000	TOTAL- FIXED & VARIABLE RATE DEBT																			

Remarketing Agents			GO VS COP's		
Goldman	127,000,000	51%	GO:	529,500,000	82%
BAML	71,600,000	29%	COPS:	116,745,000	18%
US Bank	52,500,000	21%	Total	<u>646,245,000</u>	
	<u>251,100,000</u>				

LOC Banks		Breakdown Between Variable & Fixed Rate Mode	
SUMITOMO	45,000,000	Daily Issues	131,600,000 20%
BANK OF AMERICA	52,500,000	Weekly Issues	45,000,000 7%
US BANK	79,100,000	ITN Issues	74,500,000 12%
	<u>176,600,000</u>	Sub-Total	<u>251,100,000</u>
		Fixed Rate Issues	\$395,145,000 61%
		Sub-Total - Fixed	<u>395,145,000</u>
		TOTAL DEBT	
		FIXED & VAR.	<u>646,245,000</u> 100%

IRVINE RANCH WATER DISTRICT
SUMMARY OF DEBT RATES
Oct-20

Rmkt Agent Mode	GOLDMAN DAILY	GOLDMAN WEEKLY	GOLDMAN WEEKLY	MERRILL LYNCH DAILY	MERRILL LYNCH WEEKLY	US BANK DAILY
Bond Issue	2009 - B	2011 A-1	2011 A-2	1993	2008-A	2009-A
Par Amount	52,500,000	44,700,000	29,800,000	26,600,000	45,000,000	52,500,000
Bank	BOFA	(SIFMA -6)	(SIFMA -6)	US BANK	Sumitomo	US BANK
Reset		Wednesday	Wednesday		Wednesday	
10/1/2020	0.05%	0.05%	0.05%	0.06%	0.10%	0.06%
10/2/2020	0.02%	0.05%	0.05%	0.04%	0.10%	0.03%
10/3/2020	0.02%	0.05%	0.05%	0.04%	0.10%	0.03%
10/4/2020	0.02%	0.05%	0.05%	0.04%	0.10%	0.03%
10/5/2020	0.02%	0.05%	0.05%	0.03%	0.10%	0.02%
10/6/2020	0.02%	0.05%	0.05%	0.03%	0.10%	0.02%
10/7/2020	0.03%	0.05%	0.05%	0.03%	0.10%	0.03%
10/8/2020	0.03%	0.05%	0.05%	0.07%	0.10%	0.03%
10/9/2020	0.06%	0.05%	0.05%	0.09%	0.10%	0.06%
10/10/2020	0.06%	0.05%	0.05%	0.09%	0.10%	0.06%
10/11/2020	0.06%	0.05%	0.05%	0.09%	0.10%	0.06%
10/12/2020	0.06%	0.05%	0.05%	0.09%	0.10%	0.06%
10/13/2020	0.10%	0.05%	0.05%	0.09%	0.10%	0.08%
10/14/2020	0.09%	0.05%	0.05%	0.10%	0.10%	0.07%
10/15/2020	0.09%	0.06%	0.06%	0.11%	0.13%	0.09%
10/16/2020	0.11%	0.06%	0.06%	0.12%	0.13%	0.11%
10/17/2020	0.11%	0.06%	0.06%	0.12%	0.13%	0.11%
10/18/2020	0.11%	0.06%	0.06%	0.12%	0.13%	0.11%
10/19/2020	0.10%	0.06%	0.06%	0.12%	0.13%	0.11%
10/20/2020	0.09%	0.06%	0.06%	0.11%	0.13%	0.10%
10/21/2020	0.08%	0.06%	0.06%	0.11%	0.13%	0.09%
10/22/2020	0.08%	0.07%	0.07%	0.10%	0.14%	0.09%
10/23/2020	0.09%	0.07%	0.07%	0.10%	0.14%	0.08%
10/24/2020	0.09%	0.07%	0.07%	0.10%	0.14%	0.08%
10/25/2020	0.09%	0.07%	0.07%	0.10%	0.14%	0.08%
10/26/2020	0.08%	0.07%	0.07%	0.09%	0.14%	0.08%
10/27/2020	0.08%	0.07%	0.07%	0.09%	0.14%	0.07%
10/28/2020	0.07%	0.07%	0.07%	0.09%	0.14%	0.07%
10/29/2020	0.09%	0.06%	0.06%	0.09%	0.14%	0.07%
10/30/2020	0.08%	0.06%	0.06%	0.12%	0.14%	0.07%
10/31/2020	0.08%	0.06%	0.06%	0.12%	0.14%	0.07%
Avg Interest Rates	0.07%	0.06%	0.06%	0.09%	0.12%	0.07%
Rmkt Fee	0.10%	0.13%	0.13%	0.10%	0.07%	0.07%
LOC Fee	0.30%			0.33%	0.32%	0.33%
All-In Rate	0.47%	0.18%	0.18%	0.52%	0.50%	0.47%
Par Amount	97,200,000		29,800,000	71,600,000		52,500,000

Interest Rate Mode	Percent of Total Variable Rate Debt	Par Outstanding	Weighted All-In Average Rate	Base Rate Average
Daily	52.41%	131,600,000	0.48%	0.07%
Weekly	47.59%	119,500,000	0.30%	0.08%
Fixed	100.00%	\$ 251,100,000	0.40%	0.08%
COPS 2016	29.54%	116,745,000	2.90%	
BABS 2010	44.29%	175,000,000	4.44%	(1)
SERIES 2016	26.17%	103,400,000	3.32%	
	100.00%	\$ 395,145,000	3.69%	
All-In Debt Rate Including \$60 Million Notional Amount of Swaps				2.91%

(1) Rate adjusted up from 4.35% as a result of sequestration reducing BAB's subsidy by 5.9%

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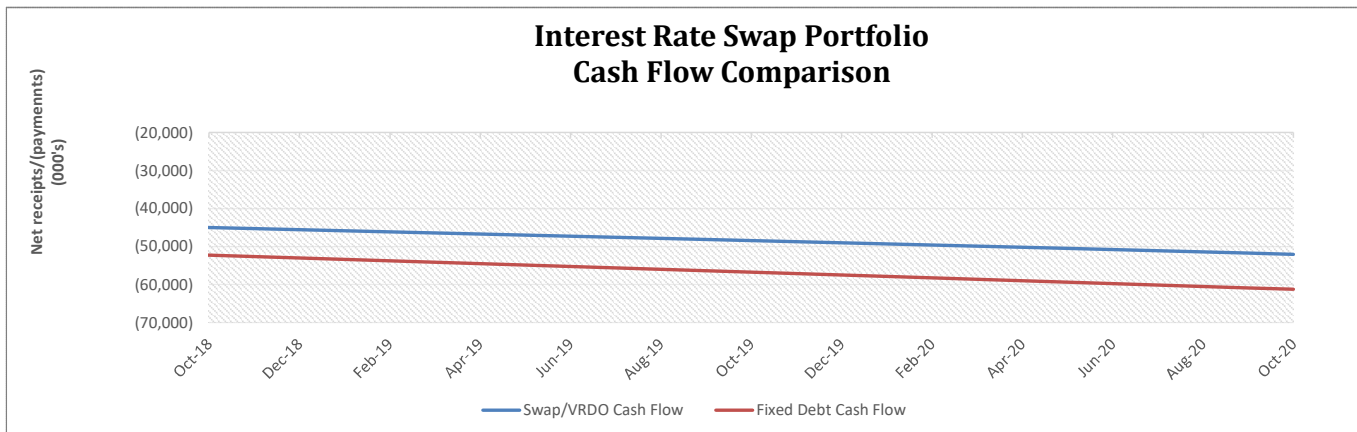
Exhibit "C"
Irvine Ranch Water District
Interest Rate Swap Summary
October 2020

	Prior Mo.	Current Mo.	12-Mo Avg
LIBOR Avg %	0.15%	0.15%	0.79%

Current Fiscal Year Active Swaps								Cash Flow			(Since 3/07)	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 Net Accrual	Current Mark to Market	Notional Difference
Fixed Payer Swaps - By Effective Date													
3/10/2007	3/10/2029	8.4	ML	30,000,000	FXP	LIBOR	5.687%	(133,549)	(138,231)	(551,815)	(18,576,958)	17,498,289	(12,501,711)
3/10/2007	3/10/2029	8.4	CG	30,000,000	FXP	LIBOR	5.687%	(133,549)	(138,231)	(551,815)	(18,576,958)	17,495,833	(12,504,167)
Totals/Weighted Avgs		8.4		\$ 60,000,000			5.687%	\$ (267,098)	\$ (276,462)	\$ (1,103,630)	\$ (37,153,915)	\$ 34,994,122	\$ (25,005,878)
Total Current Year Active Swaps				\$ 60,000,000				\$ (267,098)	\$ (276,462)	\$ (1,103,630)	\$ (37,153,915)	\$ 34,994,122	\$ (25,005,878)

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 Net Accrual	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 Net Accrual	Current Mark to Market	Notional Difference
Total Current Year Active & Terminated Swaps				\$ 60,000,000				\$ (267,098)	\$ (276,462)	\$ (1,103,630)	\$ (37,153,915)	\$ 34,994,122	\$ (25,005,878)



Cash Flow Comparison Synthetic Fixed vs. Fixed Rate Debt	
<u>Cash Flow to Date</u>	
Synthetic Fixed =	\$52,037,748
Fixed Rate =	\$61,232,562
Assumptions:	
- Fixed rate debt issued at 4.93% in Mar-07 (estimated TE rate - Bloomberg)	
- 'Synthetic' includes swap cash flow + interest + fees to date	

Note: This page is intentionally left blank.

Exhibit "D"

IRVINE RANCH WATER DISTRICT AP DISBURSEMENTS AND VOIDS FOR OCTOBER 2020

CHECK OR ELECTRONIC #	SUPPLIERS	PAYMENT DATE	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
412075	Cook, Nicholas	1-Oct-20	80.00	IRWD Check	Reconciled
412076	Drzymkowski, Michele A (Michele)	1-Oct-20	6.95	IRWD Check	Reconciled
412077	Fournier, Tanja L (Tanja)	1-Oct-20	88.62	IRWD Check	Reconciled
412078	Guzman, Juan (Juan)	1-Oct-20	120.00	IRWD Check	Reconciled
412079	Moeder, Jacob J (Jacob)	1-Oct-20	332.00	IRWD Check	Reconciled
412080	Oldewage, Lars D (Lars)	1-Oct-20	103.65	IRWD Check	Reconciled
412081	Orozco, Gustavo A (Gus)	1-Oct-20	91.00	IRWD Check	Reconciled
412082	A&Y ASPHALT CONTRACTORS, INC.	1-Oct-20	34,034.50	IRWD Check	Reconciled
412083	ABC ICE, INC	1-Oct-20	1,331.24	IRWD Check	Reconciled
412084	ACWA	1-Oct-20	500.00	IRWD Check	Reconciled
412085	AIRGAS, INC.	1-Oct-20	2,307.75	IRWD Check	Reconciled
412086	ALLIED ELECTRONICS INC	1-Oct-20	1,617.85	IRWD Check	Reconciled
412087	ALSTON & BIRD LLP	1-Oct-20	499,049.50	IRWD Check	Reconciled
412088	AMAZON CAPITAL SERVICES, INC.	1-Oct-20	910.08	IRWD Check	Reconciled
412089	AMERICAN WATER CHEMICALS, INC.	1-Oct-20	16,093.54	IRWD Check	Reconciled
412090	ANDERSONPENNA PARTNERS, INC.	1-Oct-20	51,071.25	IRWD Check	Reconciled
412091	ANTHONY N. LARSEN	1-Oct-20	450.00	IRWD Check	Reconciled
412092	APEX SYSTEMS, LLC	1-Oct-20	16,113.50	IRWD Check	Reconciled
412093	AT&T	1-Oct-20	739.60	IRWD Check	Reconciled
412094	AT&T	1-Oct-20	57.19	IRWD Check	Reconciled
412095	AT&T	1-Oct-20	471.52	IRWD Check	Reconciled
412096	AUTOZONE PARTS, INC.	1-Oct-20	847.62	IRWD Check	Reconciled
412097	B & H PHOTO VIDEO	1-Oct-20	3,317.62	IRWD Check	Reconciled
412098	BARTEL ASSOCIATES, LLC	1-Oct-20	280.00	IRWD Check	Reconciled
412099	BASE LINE FIRE PROTECTION, INC.	1-Oct-20	300.00	IRWD Check	Reconciled
412100	BATTERIES PLUS AND BATTERIES PLUS BULBS	1-Oct-20	2,326.09	IRWD Check	Reconciled
412101	BEST DRILLING AND PUMP, INC.	1-Oct-20	19,997.50	IRWD Check	Reconciled
412102	BGI HOLDINGS I LLC	1-Oct-20	45.23	IRWD Check	Negotiable
412103	BILL'S SWEEPING SERVICE INC	1-Oct-20	2,189.00	IRWD Check	Reconciled
412104	BIOMAGIC INC	1-Oct-20	1,449.78	IRWD Check	Reconciled
412105	BRUCE HADLEY NEWELL	1-Oct-20	1,250.00	IRWD Check	Reconciled
412106	C WELLS PIPELINE MATERIALS INC	1-Oct-20	7,056.32	IRWD Check	Reconciled
412107	CALDESAL	1-Oct-20	5,000.00	IRWD Check	Reconciled
412108	CALIFORNIA BANK & TRUST	1-Oct-20	22,487.92	IRWD Check	Reconciled
412109	CALIFORNIA BARRICADE RENTAL, INC.	1-Oct-20	19,622.50	IRWD Check	Reconciled
412110	CANON SOLUTIONS AMERICA, INC.	1-Oct-20	31.13	IRWD Check	Reconciled
412111	CAROLLO ENGINEERS, INC	1-Oct-20	3,809.54	IRWD Check	Reconciled
412112	CARRERA, STEVE	1-Oct-20	24.85	IRWD Check	Reconciled
412113	CHAIREL CUSTOM HAY, INC.	1-Oct-20	9,027.87	IRWD Check	Reconciled
412114	CLA-VAL COMPANY	1-Oct-20	764.77	IRWD Check	Reconciled
412115	CONNEXUS INDUSTRIES INC.	1-Oct-20	20,427.55	IRWD Check	Reconciled
412116	CONSOLIDATED ELECTRICAL DISTRIBUTORS, INC	1-Oct-20	6,788.25	IRWD Check	Reconciled
412117	CONSTELLATION NEWENERGY, INC.	1-Oct-20	92,029.89	IRWD Check	Reconciled
412118	COX COMMUNICATIONS, INC.	1-Oct-20	244.64	IRWD Check	Reconciled
412119	DABIC, CINDY	1-Oct-20	73.47	IRWD Check	Reconciled
412120	DILYTICS INC	1-Oct-20	2,250.00	IRWD Check	Reconciled
412121	DIRECTV INC	1-Oct-20	139.54	IRWD Check	Reconciled
412122	DIVERSIFIED COMMUNICATIONS SERVICES, INC.	1-Oct-20	9,799.50	IRWD Check	Reconciled
412123	DUNNE, JAMES	1-Oct-20	29.09	IRWD Check	Reconciled
412124	EUROFINS CALSCIENCE, LLC	1-Oct-20	5,748.75	IRWD Check	Reconciled
412125	EWING, GLEN	1-Oct-20	46.61	IRWD Check	Negotiable
412126	EXECUTIVE LIGHTING & ELECTRIC	1-Oct-20	1,372.00	IRWD Check	Reconciled
412127	FERGUSON ENTERPRISES, LLC	1-Oct-20	8,990.10	IRWD Check	Reconciled
412128	FISHER SCIENTIFIC COMPANY LLC	1-Oct-20	612.86	IRWD Check	Reconciled
412129	FOOTHILL/EASTERN TRANSPORTATION	1-Oct-20	4,650.00	IRWD Check	Reconciled
412130	FORESTRY SUPPLIERS INC	1-Oct-20	1,466.98	IRWD Check	Reconciled
412131	GILLETTE 137 DEVELOPMENT LLC	1-Oct-20	277.20	IRWD Check	Reconciled
412132	GM SAGER CONSTRUCTION CO,INC.	1-Oct-20	130,718.00	IRWD Check	Reconciled
412133	GRAINGER	1-Oct-20	9,254.35	IRWD Check	Reconciled
412134	GRAYBAR ELECTRIC COMPANY	1-Oct-20	689.01	IRWD Check	Reconciled
412135	HACH COMPANY	1-Oct-20	14,496.07	IRWD Check	Reconciled
412136	HARRINGTON INDUSTRIAL PLASTICS LLC	1-Oct-20	20,732.67	IRWD Check	Reconciled
412137	HELPMATES STAFFING SERVICES	1-Oct-20	6,839.63	IRWD Check	Reconciled
412138	HERC RENTALS INC.	1-Oct-20	715.84	IRWD Check	Reconciled
412139	HI-LINE INC	1-Oct-20	621.86	IRWD Check	Reconciled
412140	HILL BROTHERS CHEMICAL COMPANY	1-Oct-20	7,949.08	IRWD Check	Reconciled
412141	HOME DEPOT USA INC	1-Oct-20	981.47	IRWD Check	Reconciled
412142	HSG INC	1-Oct-20	1,151.00	IRWD Check	Reconciled

**IRVINE RANCH WATER DISTRICT
AP DISBURSEMENTS AND VOIDS FOR OCTOBER 2020**

CHECK OR ELECTRONIC #	SUPPLIERS	PAYMENT DATE	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
412143	IBM CORPORATION	1-Oct-20	94,041.94	IRWD Check	Reconciled
412144	IMPERIAL SPRINKLER SUPPLY, INC.	1-Oct-20	520.70	IRWD Check	Reconciled
412145	INFOSYS LIMITED	1-Oct-20	26,880.00	IRWD Check	Reconciled
412146	IRVINE PACIFIC	1-Oct-20	216.71	IRWD Check	Reconciled
412147	IRVINE PIPE & SUPPLY INC	1-Oct-20	7,654.45	IRWD Check	Reconciled
412148	IRWD-PETTY CASH CUSTODIAN	1-Oct-20	490.17	IRWD Check	Reconciled
412149	IXOM WATERCARE INC	1-Oct-20	96,284.30	IRWD Check	Reconciled
412150	JACHAK, ANURADHA	1-Oct-20	48.25	IRWD Check	Negotiable
412151	JCI JONES CHEMICALS INC	1-Oct-20	3,296.09	IRWD Check	Reconciled
412152	KAESER COMPRESSORS, INC.	1-Oct-20	805.21	IRWD Check	Reconciled
412153	KAN VENTURES, INC	1-Oct-20	6,500.00	IRWD Check	Reconciled
412154	KENT DAHLBERG	1-Oct-20	12,976.83	IRWD Check	Reconciled
412155	KIMBALL MIDWEST	1-Oct-20	3,425.17	IRWD Check	Reconciled
412156	KONECRANES INC	1-Oct-20	1,390.00	IRWD Check	Reconciled
412157	KPRS CONSTRUCTION SERVICES, INC.	1-Oct-20	959,947.36	IRWD Check	Reconciled
412158	LA HABRA FENCE COMPANY INC	1-Oct-20	6,157.00	IRWD Check	Reconciled
412159	LANDCARE HOLDINGS, INC.	1-Oct-20	7,401.00	IRWD Check	Reconciled
412160	LIFECOM, INC.	1-Oct-20	1,298.61	IRWD Check	Reconciled
412161	LIN, JOY	1-Oct-20	37.34	IRWD Check	Reconciled
412162	LSA ASSOCIATES INC	1-Oct-20	9,482.85	IRWD Check	Reconciled
412163	MADDOX ELECTRIC INC.	1-Oct-20	16,325.20	IRWD Check	Reconciled
412164	MC FADDEN-DALE INDUSTRIAL	1-Oct-20	38.35	IRWD Check	Reconciled
412165	MC MASTER CARR SUPPLY CO	1-Oct-20	363.36	IRWD Check	Reconciled
412166	MCCOLLUM, PHILLIP	1-Oct-20	18.36	IRWD Check	Reconciled
412167	MCR TECHNOLOGIES INC	1-Oct-20	2,385.76	IRWD Check	Reconciled
412168	MERRIMAC PETROLEUM, INC.	1-Oct-20	18,987.69	IRWD Check	Reconciled
412169	MR CRANE INC	1-Oct-20	1,198.80	IRWD Check	Reconciled
412170	MSC INDUSTRIAL SUPPLY CO	1-Oct-20	20.45	IRWD Check	Reconciled
412171	NATIONAL READY MIXED CONCRETE SALES, LLC	1-Oct-20	552.86	IRWD Check	Reconciled
412172	NEWAGE INDUSTRIES INC	1-Oct-20	291.99	IRWD Check	Reconciled
412173	NEWPORT BEACH CHAMBER OF COMMERCE	1-Oct-20	500.00	IRWD Check	Reconciled
412174	NGUYEN, PHONG	1-Oct-20	74.96	IRWD Check	Negotiable
412175	NV5, INC.	1-Oct-20	17,920.00	IRWD Check	Reconciled
412176	OLIN CORPORATION	1-Oct-20	16,277.98	IRWD Check	Reconciled
412177	ORACLE AMERICA, INC.	1-Oct-20	1.50	IRWD Check	Reconciled
412178	OSTROW, RICHARD	1-Oct-20	29.90	IRWD Check	Reconciled
412179	PACIFIC COAST BOLT CORP	1-Oct-20	632.49	IRWD Check	Reconciled
412180	PACIFIC PARTS & CONTROLS INC	1-Oct-20	37.37	IRWD Check	Reconciled
412181	PALL CORPORATION	1-Oct-20	4,200.00	IRWD Check	Reconciled
412182	PARKHOUSE TIRE INC	1-Oct-20	1,427.08	IRWD Check	Reconciled
412183	PAULUS ENGINEERING, INC.	1-Oct-20	4,275.00	IRWD Check	Reconciled
412184	PIVOT INTERIORS INC	1-Oct-20	3,403.15	IRWD Check	Reconciled
412185	POUNADIAN, ATOUSA	1-Oct-20	33.64	IRWD Check	Reconciled
412186	PTI SAND & GRAVEL INC	1-Oct-20	2,407.26	IRWD Check	Reconciled
412187	PYRO-COMM SYSTEMS INC	1-Oct-20	2,126.18	IRWD Check	Reconciled
412188	QUADIENT FINANCE USA, INC.	1-Oct-20	2,000.00	IRWD Check	Reconciled
412189	RAM AIR ENGINEERING INC	1-Oct-20	16,082.83	IRWD Check	Reconciled
412190	RCE CONSULTANTS, INC.	1-Oct-20	6,247.00	IRWD Check	Reconciled
412191	REAL WATER CONSULTANTS INC.	1-Oct-20	21,804.00	IRWD Check	Reconciled
412192	RED WING SHOE STORE	1-Oct-20	181.89	IRWD Check	Reconciled
412193	RENTBLE PROPERTY MANAGEMENT	1-Oct-20	46.51	IRWD Check	Negotiable
412194	RENTOKIL NORTH AMERICA, INC	1-Oct-20	30,772.00	IRWD Check	Reconciled
412195	RICHARD C. SLADE & ASSOCIATES LLC	1-Oct-20	21,341.53	IRWD Check	Reconciled
412196	RIDGE, PATRICK	1-Oct-20	27.51	IRWD Check	Reconciled
412197	RINCON TRUCK CENTER INC.	1-Oct-20	203.00	IRWD Check	Reconciled
412198	ROSEMOUNT INC.	1-Oct-20	13,850.72	IRWD Check	Reconciled
412199	SANTA MARGARITA FORD	1-Oct-20	131.50	IRWD Check	Reconciled
412200	SCHINDLER ELEVATOR CORPORATION	1-Oct-20	229.11	IRWD Check	Reconciled
412201	SHAH, SYED	1-Oct-20	50.28	IRWD Check	Reconciled
412202	SHAMROCK SUPPLY CO INC	1-Oct-20	28.49	IRWD Check	Reconciled
412203	SHI, LONG	1-Oct-20	136.51	IRWD Check	Reconciled
412204	SIGMA-ALDRICH INC	1-Oct-20	95.34	IRWD Check	Reconciled
412205	SIGNATURE FLOORING, INC	1-Oct-20	4,821.40	IRWD Check	Reconciled
412206	SIOSON, REYSON	1-Oct-20	32.84	IRWD Check	Reconciled
412207	SIRIUS COMPUTER SOLUTIONS INC	1-Oct-20	22,994.04	IRWD Check	Reconciled
412208	SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT	1-Oct-20	1,399.46	IRWD Check	Reconciled
412209	SOUTHERN CALIFORNIA EDISON COMPANY	1-Oct-20	126.02	IRWD Check	Reconciled
412210	SOUTHERN CALIFORNIA EDISON COMPANY	1-Oct-20	768,903.37	IRWD Check	Reconciled

**IRVINE RANCH WATER DISTRICT
AP DISBURSEMENTS AND VOIDS FOR OCTOBER 2020**

CHECK OR ELECTRONIC #	SUPPLIERS	PAYMENT DATE	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
412211	SPARLING INSTRUMENTS LLC	1-Oct-20	3,492.99	IRWD Check	Reconciled
412212	STANFORD COURT APARTMENTS	1-Oct-20	38.18	IRWD Check	Reconciled
412213	SUEZ TREATMENT SOLUTIONS INC.	1-Oct-20	4,414.50	IRWD Check	Reconciled
412214	SYN-TECH SYSTEMS INC	1-Oct-20	825.00	IRWD Check	Reconciled
412215	TAWAY DEVELOPMENT INC.	1-Oct-20	37.25	IRWD Check	Reconciled
412216	TECHNOLOGY INTEGRATION GROUP	1-Oct-20	4,055.71	IRWD Check	Reconciled
412217	THOMPSON INDUSTRIAL SUPPLY	1-Oct-20	3,917.46	IRWD Check	Reconciled
412218	THYSSENKRUPP ELEVATOR CORPORATION	1-Oct-20	409.48	IRWD Check	Reconciled
412219	TOTAL RESOURCE MANAGEMENT, INC	1-Oct-20	9,197.50	IRWD Check	Reconciled
412220	TRICENTIS AMERICAS, INC.	1-Oct-20	5,512.50	IRWD Check	Reconciled
412221	TROPICAL PLAZA NURSERY INC	1-Oct-20	62,464.45	IRWD Check	Reconciled
412222	UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA	1-Oct-20	4,892.30	IRWD Check	Reconciled
412224	UNITED PARCEL SERVICE INC	1-Oct-20	240.68	IRWD Check	Reconciled
412225	UNIVAR SOLUTIONS USA INC.	1-Oct-20	4,723.76	IRWD Check	Reconciled
412226	VALENCIA, LIZA	1-Oct-20	46.83	IRWD Check	Reconciled
412227	VERIZON WIRELESS SERVICES LLC	1-Oct-20	14,316.35	IRWD Check	Reconciled
412228	VIDO ARTUKOVICH & SON, INC./VIDMAR, INC. A JV	1-Oct-20	364,854.30	IRWD Check	Reconciled
412229	VIDO ARTUKOVICH & SON, INC./VIDMAR, INC. A JV	1-Oct-20	19,202.86	IRWD Check	Reconciled
412230	VIRTUAL GRAFFITI, INC.	1-Oct-20	765.00	IRWD Check	Negotiable
412231	VWR INTERNATIONAL, LLC	1-Oct-20	3,477.69	IRWD Check	Reconciled
412232	WATER TREATMENT CHEMICALS INC	1-Oct-20	12,142.08	IRWD Check	Reconciled
412233	WAXIE'S ENTERPRISES, INC	1-Oct-20	134.59	IRWD Check	Reconciled
412234	WECK LABORATORIES INC	1-Oct-20	5,775.00	IRWD Check	Reconciled
412235	WEST COAST SAFETY SUPPLY INC	1-Oct-20	9,250.71	IRWD Check	Reconciled
412236	WEST YOST & ASSOCIATES	1-Oct-20	17,222.00	IRWD Check	Reconciled
412237	WOOCK, TRACEY	1-Oct-20	62.42	IRWD Check	Reconciled
412238	WOODARD & CURRAN INC	1-Oct-20	39,717.98	IRWD Check	Reconciled
412239	YORKE ENGINEERING, LLC	1-Oct-20	453.00	IRWD Check	Reconciled
412240	ZIMA CORPORATION	1-Oct-20	760.92	IRWD Check	Reconciled
412241	Bill, Cody (Cody)	8-Oct-20	283.00	IRWD Check	Reconciled
412242	Cano, Marco T (Marco)	8-Oct-20	91.00	IRWD Check	Reconciled
412243	Hufana, Mr. Eugenio D II (Gino)	8-Oct-20	109.25	IRWD Check	Reconciled
412244	Korneff, Nicholas	8-Oct-20	90.00	IRWD Check	Negotiable
412245	Kulick, Michael	8-Oct-20	91.00	IRWD Check	Reconciled
412246	Perez, Cesar (Cesar)	8-Oct-20	291.00	IRWD Check	Reconciled
412247	Reynoso, Pio (Pio)	8-Oct-20	101.00	IRWD Check	Reconciled
412248	KILL-N-BUGS TERMITE AND PEST CONTROL SERVICES	8-Oct-20	3,375.00	IRWD Check	Reconciled
412249	A&Y ASPHALT CONTRACTORS, INC.	8-Oct-20	1,600.00	IRWD Check	Reconciled
412250	ACWA	8-Oct-20	2,139.00	IRWD Check	Reconciled
412251	AFLAC	8-Oct-20	148.76	IRWD Check	Reconciled
412252	AFLAC	8-Oct-20	6,745.20	IRWD Check	Reconciled
412253	AIRGAS, INC.	8-Oct-20	450.22	IRWD Check	Reconciled
412254	ALL STAR GLASS	8-Oct-20	99.00	IRWD Check	Reconciled
412255	ALLIANT INSURANCE SERVICES,INC	8-Oct-20	3,097.50	IRWD Check	Reconciled
412256	ALSTON & BIRD LLP	8-Oct-20	11,885.78	IRWD Check	Reconciled
412257	AMETEK BROOKFIELD	8-Oct-20	1,987.47	IRWD Check	Reconciled
412258	APEX SYSTEMS, LLC	8-Oct-20	7,696.00	IRWD Check	Reconciled
412259	APPLIED ENGINEERING CONCEPTS	8-Oct-20	5,080.00	IRWD Check	Reconciled
412260	ARCADIS U.S., INC.	8-Oct-20	11,382.50	IRWD Check	Reconciled
412261	ARMBRUSTER, ALEX	8-Oct-20	15.23	IRWD Check	Reconciled
412262	AROUTIOUNIAN, ALEKSI	8-Oct-20	37.92	IRWD Check	Reconciled
412263	ASSOCIATION OF CALIFORNIA WATER AGENCIES/JPIA	8-Oct-20	38,656.38	IRWD Check	Reconciled
412264	ASSOCIATION OF CALIFORNIA WATER AGENCIES/JPIA	8-Oct-20	817.58	IRWD Check	Reconciled
412265	AT&T	8-Oct-20	4,665.11	IRWD Check	Reconciled
412266	AUTOZONE PARTS, INC.	8-Oct-20	1,808.83	IRWD Check	Reconciled
412267	AVELAR, AMY	8-Oct-20	37.92	IRWD Check	Reconciled
412268	B & K ELECTRIC WHOLESALE	8-Oct-20	9,878.73	IRWD Check	Reconciled
412269	BANK OF NEW YORK MELLON TRUST COMPANY NA	8-Oct-20	1,262.00	IRWD Check	Reconciled
412270	BARTEL, MARVIN	8-Oct-20	52.22	IRWD Check	Reconciled
412271	BATTERY SPECIALTIES	8-Oct-20	707.71	IRWD Check	Reconciled
412272	BLAIRS TOWING INC	8-Oct-20	241.00	IRWD Check	Reconciled
412273	BOTTORFF, TIMOTHY L	8-Oct-20	154.48	IRWD Check	Negotiable
412274	BRENNTAG PACIFIC INC	8-Oct-20	5,675.20	IRWD Check	Reconciled
412275	BRENT SCURCI AND CATHERINE SCURCI	8-Oct-20	71.52	IRWD Check	Reconciled
412276	BSI SERVICES AND SOLUTIONS (WEST) INC.	8-Oct-20	4,008.00	IRWD Check	Reconciled
412277	C WELLS PIPELINE MATERIALS INC	8-Oct-20	2,900.20	IRWD Check	Reconciled
412278	CALIFORNIA BARRICADE RENTAL, INC.	8-Oct-20	31,102.50	IRWD Check	Reconciled
412279	CANNON, TROY	8-Oct-20	0.80	IRWD Check	Negotiable

**IRVINE RANCH WATER DISTRICT
AP DISBURSEMENTS AND VOIDS FOR OCTOBER 2020**

CHECK OR ELECTRONIC #	SUPPLIERS	PAYMENT DATE	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
412280	CANON SOLUTIONS AMERICA, INC.	8-Oct-20	136.80	IRWD Check	Reconciled
412281	CARTER, MEG	8-Oct-20	21.80	IRWD Check	Reconciled
412282	CDW GOVERNMENT LLC	8-Oct-20	1,036.60	IRWD Check	Reconciled
412283	CHANG, CHIHLING	8-Oct-20	38.72	IRWD Check	Reconciled
412284	CHARLES P CROWLEY COMPANY INC	8-Oct-20	4,545.94	IRWD Check	Reconciled
412285	CHOU, JASON	8-Oct-20	42.71	IRWD Check	Reconciled
412286	CITY OF IRVINE	8-Oct-20	54,303.60	IRWD Check	Reconciled
412287	CLEAN ENERGY	8-Oct-20	4,807.71	IRWD Check	Reconciled
412288	CLIFFORD MORIYAMA	8-Oct-20	4,000.00	IRWD Check	Reconciled
412289	COLONIAL LIFE & ACCIDENT INSURANCE CO.	8-Oct-20	1,103.26	IRWD Check	Reconciled
412290	COMMUNITY EMERGENCY MANAGEMENT, INC	8-Oct-20	3,000.00	IRWD Check	Reconciled
412291	CONSOLIDATED ELECTRICAL DISTRIBUTORS, INC	8-Oct-20	1,976.14	IRWD Check	Reconciled
412292	CONSTELLATION NEWENERGY, INC.	8-Oct-20	114,473.56	IRWD Check	Reconciled
412293	COX COMMUNICATIONS, INC.	8-Oct-20	270.77	IRWD Check	Reconciled
412294	DAS PROPERTY HOLDING	8-Oct-20	52.57	IRWD Check	Negotiable
412295	DEAN, AMBER	8-Oct-20	1.22	IRWD Check	Reconciled
412296	DEMARIA ELECTRIC MOTOR SERVICES, INC.	8-Oct-20	5,594.79	IRWD Check	Reconciled
412297	DG INVESTMENT INTERMEDIATE HOLDINGS 2, INC.	8-Oct-20	19,862.13	IRWD Check	Reconciled
412298	DUDEK	8-Oct-20	1,777.50	IRWD Check	Reconciled
412299	EAST ORANGE COUNTY WATER DISTRICT	8-Oct-20	2,079.47	IRWD Check	Reconciled
412300	EI&C ENGINEERING INC.	8-Oct-20	44,414.00	IRWD Check	Reconciled
412301	ELECTRABOND	8-Oct-20	1,840.00	IRWD Check	Negotiable
412302	ENVIRONMENTAL ENGINEERING AND CONTRACTING, INC.	8-Oct-20	9,600.00	IRWD Check	Reconciled
412303	ESONES, ALYSSA	8-Oct-20	73.42	IRWD Check	Reconciled
412304	EXECUTIVE LIGHTING & ELECTRIC	8-Oct-20	247.48	IRWD Check	Reconciled
412305	FAITHCO INC.	8-Oct-20	27,581.00	IRWD Check	Reconciled
412306	FASTBLUE COMMUNICATIONS INC.	8-Oct-20	1,917.00	IRWD Check	Reconciled
412307	FEDEX	8-Oct-20	480.44	IRWD Check	Reconciled
412308	FIDELITY SECURITY LIFE INSURANCE COMPANY	8-Oct-20	89.64	IRWD Check	Reconciled
412309	FIDELITY SECURITY LIFE INSURANCE COMPANY	8-Oct-20	893.83	IRWD Check	Reconciled
412310	FIDELITY SECURITY LIFE INSURANCE COMPANY	8-Oct-20	7,013.70	IRWD Check	Reconciled
412311	FIDELITY SECURITY LIFE INSURANCE COMPANY	8-Oct-20	33.86	IRWD Check	Reconciled
412312	FISERV SOLUTIONS, LLC	8-Oct-20	23,889.46	IRWD Check	Reconciled
412313	FISHER SCIENTIFIC COMPANY LLC	8-Oct-20	9,242.90	IRWD Check	Reconciled
412314	FLEET SOLUTIONS LLC	8-Oct-20	5,772.56	IRWD Check	Reconciled
412315	FLW, INC.	8-Oct-20	1,455.39	IRWD Check	Reconciled
412316	FRANCHISE TAX BOARD	8-Oct-20	945.48	IRWD Check	Reconciled
412317	FRONTIER CALIFORNIA INC.	8-Oct-20	287.73	IRWD Check	Reconciled
412318	FULLER TRUCK ACCESSORIES	8-Oct-20	535.52	IRWD Check	Reconciled
412319	FUSCOE ENGINEERING, INC.	8-Oct-20	7,273.50	IRWD Check	Reconciled
412320	GEI CONSULTANTS INC	8-Oct-20	2,619.00	IRWD Check	Reconciled
412321	GEORGE, BETSY	8-Oct-20	20.88	IRWD Check	Reconciled
412322	GHOLAMIPOUR, AMIR	8-Oct-20	44.41	IRWD Check	Negotiable
412323	GRAINGER	8-Oct-20	2,927.17	IRWD Check	Reconciled
412324	GRAYBAR ELECTRIC COMPANY	8-Oct-20	8,708.66	IRWD Check	Reconciled
412325	HAAKER EQUIPMENT COMPANY	8-Oct-20	10,895.47	IRWD Check	Reconciled
412326	HABITAT RESTORATION SCIENCES, INC.	8-Oct-20	800.00	IRWD Check	Reconciled
412327	HACH COMPANY	8-Oct-20	5,122.25	IRWD Check	Reconciled
412328	HADRONEX, INC.	8-Oct-20	300.00	IRWD Check	Reconciled
412329	HANSON BRIDGETT LLP	8-Oct-20	66,639.14	IRWD Check	Reconciled
412330	HARDY & HARPER, INC.	8-Oct-20	29,565.50	IRWD Check	Reconciled
412331	HARGROVE, HEATHER	8-Oct-20	79.24	IRWD Check	Reconciled
412332	HARRINGTON INDUSTRIAL PLASTICS LLC	8-Oct-20	11,517.40	IRWD Check	Reconciled
412333	HDR ENGINEERING INC	8-Oct-20	67,784.99	IRWD Check	Reconciled
412334	HEKIMIAN, JOSEPH	8-Oct-20	40.10	IRWD Check	Reconciled
412335	HELP/SYSTEMS, LLC	8-Oct-20	2,101.71	IRWD Check	Reconciled
412336	HELPMATES STAFFING SERVICES	8-Oct-20	19,254.52	IRWD Check	Reconciled
412337	HI-LINE INC	8-Oct-20	415.41	IRWD Check	Reconciled
412338	HILL BROTHERS CHEMICAL COMPANY	8-Oct-20	6,080.50	IRWD Check	Reconciled
412339	HILTBRAND, JEFF	8-Oct-20	43.77	IRWD Check	Reconciled
412340	HIRAHATAKE, KRISTIN	8-Oct-20	55.15	IRWD Check	Reconciled
412341	HOLICKY, EVELYN	8-Oct-20	119.53	IRWD Check	Reconciled
412342	HOME DEPOT USA INC	8-Oct-20	857.19	IRWD Check	Reconciled
412343	HUANG, QIONG	8-Oct-20	33.62	IRWD Check	Negotiable
412344	HUEBLER, DOMINIK	8-Oct-20	37.64	IRWD Check	Negotiable
412345	HUMANA INSURANCE COMPANY	8-Oct-20	56.60	IRWD Check	Reconciled
412346	IMPERIAL SPRINKLER SUPPLY, INC.	8-Oct-20	551.00	IRWD Check	Reconciled
412347	INDUSTRIAL METAL SUPPLY CO	8-Oct-20	1,299.90	IRWD Check	Reconciled

**IRVINE RANCH WATER DISTRICT
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CHECK OR ELECTRONIC #	SUPPLIERS	PAYMENT DATE	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
412348	INFINITY RESEIDENTIAL	8-Oct-20	40.10	IRWD Check	Reconciled
412349	INNOVYZE INC	8-Oct-20	24,935.00	IRWD Check	Reconciled
412350	INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS LOCAL 47	8-Oct-20	2,815.99	IRWD Check	Reconciled
412351	IRVINE GATEWAY DEVELOPMENT, LLC	8-Oct-20	60.67	IRWD Check	Reconciled
412352	IRVINE PIPE & SUPPLY INC	8-Oct-20	948.01	IRWD Check	Reconciled
412353	JAMES BRADFORD HALDEMAN	8-Oct-20	1,000.00	IRWD Check	Reconciled
412354	JCI JONES CHEMICALS INC	8-Oct-20	4,242.03	IRWD Check	Reconciled
412355	JIA, YAN FEI	8-Oct-20	46.46	IRWD Check	Negotiable
412356	JOHN MICHAEL COVAS	8-Oct-20	210.20	IRWD Check	Reconciled
412357	JOSE MARTINEZ TREE SERVICE INC.	8-Oct-20	1,500.00	IRWD Check	Reconciled
412358	KADOWAKI, KEITA	8-Oct-20	61.38	IRWD Check	Reconciled
412359	KB HOMES	8-Oct-20	281.59	IRWD Check	Reconciled
412360	KERN COUNTY TREASURER TAX COLLECTOR	8-Oct-20	64.26	IRWD Check	Reconciled
412361	KILL-N-BUGS TERMITE AND PEST CONTROL SERVICES	8-Oct-20	10,070.00	IRWD Check	Reconciled
412362	KONG, YIMING	8-Oct-20	32.07	IRWD Check	Negotiable
412363	L & S CONSTRUCTION INC	8-Oct-20	126,302.50	IRWD Check	Reconciled
412364	LANDCARE HOLDINGS, INC.	8-Oct-20	35,889.47	IRWD Check	Reconciled
412365	LENNAR HOMES	8-Oct-20	470.29	IRWD Check	Reconciled
412366	LI, XINGHUI	8-Oct-20	31.52	IRWD Check	Reconciled
412367	LIFECOM, INC.	8-Oct-20	6,472.68	IRWD Check	Reconciled
412368	LINDSAY POLIC CONSULTING, INC.	8-Oct-20	8,300.00	IRWD Check	Reconciled
412369	LING, MORGAN	8-Oct-20	133.46	IRWD Check	Reconciled
412370	LIU, JIANBO	8-Oct-20	16.94	IRWD Check	Reconciled
412371	MARK THOMAS & COMPANY, INC.	8-Oct-20	909.50	IRWD Check	Reconciled
412372	MARTINEZ, DANIELA	8-Oct-20	40.78	IRWD Check	Reconciled
412373	MAZZA, CHARLES	8-Oct-20	52.80	IRWD Check	Reconciled
412374	MBC AQUATIC SCIENCES, INC.	8-Oct-20	1,350.00	IRWD Check	Reconciled
412375	MBF CONSULTING, INC.	8-Oct-20	4,570.00	IRWD Check	Reconciled
412376	MC MASTER CARR SUPPLY CO	8-Oct-20	831.39	IRWD Check	Reconciled
412377	MELLO, ANTONIA	8-Oct-20	688.46	IRWD Check	Reconciled
412378	MERRIMAC PETROLEUM, INC.	8-Oct-20	19,617.42	IRWD Check	Reconciled
412379	MOHINDRU, ANJU	8-Oct-20	42.71	IRWD Check	Reconciled
412380	MONTROSE ENVIRONMENTAL GROUP, INC.	8-Oct-20	600.00	IRWD Check	Reconciled
412381	MORGAN COMPANY	8-Oct-20	347.52	IRWD Check	Reconciled
412382	MORRISROE, EDWARD	8-Oct-20	266.37	IRWD Check	Reconciled
412383	MUNICIPAL WATER DISTRICT OF ORANGE COUNTY	8-Oct-20	13,471.46	IRWD Check	Reconciled
412384	NATURES IMAGE INC	8-Oct-20	5,943.00	IRWD Check	Reconciled
412385	NEHRING, LINDA	8-Oct-20	39.90	IRWD Check	Negotiable
412386	NEWPORT REAL ESTATE SERVICES, INC.	8-Oct-20	9,500.00	IRWD Check	Reconciled
412387	NEWSON, KEVIN	8-Oct-20	57.28	IRWD Check	Reconciled
412388	NIGUEL POINTE PROPERTIES	8-Oct-20	28.46	IRWD Check	Reconciled
412389	O. C. SUPERIOR CUSTOM CLEANING	8-Oct-20	4,640.00	IRWD Check	Reconciled
412390	OLIN CORPORATION	8-Oct-20	46,922.00	IRWD Check	Reconciled
412391	ORACLE AMERICA, INC.	8-Oct-20	28,176.31	IRWD Check	Reconciled
412392	ORANGE COUNTY SHERIFF'S OFFICE	8-Oct-20	530.37	IRWD Check	Reconciled
412393	PACIFIC HYDROTECH CORPORATION	8-Oct-20	825,244.02	IRWD Check	Reconciled
412394	PACIFIC HYDROTECH CORPORATION	8-Oct-20	32,971.97	IRWD Check	Reconciled
412395	PACIFIC HYDROTECH CORPORATION	8-Oct-20	10,461.93	IRWD Check	Reconciled
412396	PARK, JAE IN	8-Oct-20	52.00	IRWD Check	Reconciled
412397	PARKHOUSE TIRE INC	8-Oct-20	4,630.48	IRWD Check	Reconciled
412398	PATRON PROPERTY MANAGEMENT	8-Oct-20	32.81	IRWD Check	Reconciled
412399	PAULUS ENGINEERING INC	8-Oct-20	128,129.10	IRWD Check	Reconciled
412400	PENNEY, COOPER	8-Oct-20	52.76	IRWD Check	Negotiable
412401	PERKINELMER HEALTH SCIENCES INC	8-Oct-20	5,574.28	IRWD Check	Reconciled
412402	PERS LONG TERM CARE	8-Oct-20	538.89	IRWD Check	Reconciled
412403	PHAN, ANHKHOI	8-Oct-20	840.96	IRWD Check	Reconciled
412404	PLUMBERS DEPOT INC.	8-Oct-20	308.49	IRWD Check	Reconciled
412405	POTTULULLA, VENKATA	8-Oct-20	66.22	IRWD Check	Negotiable
412406	PRE-PAID LEGAL SERVICES, INC.	8-Oct-20	1,081.42	IRWD Check	Reconciled
412407	PRIME ACTUARIAL CONSULTING, LLC	8-Oct-20	2,350.00	IRWD Check	Reconciled
412408	PROTEUS CONSULTING	8-Oct-20	4,300.00	IRWD Check	Reconciled
412409	PTI SAND & GRAVEL INC	8-Oct-20	645.90	IRWD Check	Reconciled
412410	PYRO-COMM SYSTEMS INC	8-Oct-20	835.00	IRWD Check	Reconciled
412411	QUALITY ENVIRONMENTAL CONTAINERS	8-Oct-20	7,322.18	IRWD Check	Reconciled
412412	QUINTANA, WATTS & HARTMANN, LLC	8-Oct-20	5,000.00	IRWD Check	Reconciled
412413	RAM AIR ENGINEERING INC	8-Oct-20	5,878.50	IRWD Check	Reconciled
412414	RANCHO MARIPOSA APTS	8-Oct-20	48.31	IRWD Check	Reconciled
412415	REACH EMPLOYEE ASSISTANCE INC	8-Oct-20	1,089.20	IRWD Check	Reconciled

**IRVINE RANCH WATER DISTRICT
AP DISBURSEMENTS AND VOIDS FOR OCTOBER 2020**

CHECK OR ELECTRONIC #	SUPPLIERS	PAYMENT DATE	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
412416	RED WING SHOE STORE	8-Oct-20	153.21	IRWD Check	Reconciled
412417	RELIANCE STANDARD LIFE INSURANCE COMPANY	8-Oct-20	31,626.40	IRWD Check	Reconciled
412418	RESA POWER SOLUTIONS - TRANSFORMER SERVICES, LLC	8-Oct-20	639.00	IRWD Check	Reconciled
412419	RETTERSON, KATHLEEN	8-Oct-20	22.58	IRWD Check	Reconciled
412420	RHINO SAFETY SOLUTIONS, INC	8-Oct-20	10,586.19	IRWD Check	Reconciled
412421	RIHAB MOHAMED AND ISLAM ABDELRAHMAN	8-Oct-20	31.41	IRWD Check	Negotiable
412422	RINARD, GREG	8-Oct-20	74.63	IRWD Check	Reconciled
412423	RINCON TRUCK CENTER INC.	8-Oct-20	998.80	IRWD Check	Reconciled
412424	RIVERROCK REAL ESTATE GROUP, INC.	8-Oct-20	4,000.00	IRWD Check	Reconciled
412425	ROLLANS, PEG E.	8-Oct-20	37.67	IRWD Check	Negotiable
412426	SAN DIEGO FLUID SYSTEM TECH	8-Oct-20	94.70	IRWD Check	Reconciled
412427	SANTA ANA BLUE PRINT	8-Oct-20	1,524.71	IRWD Check	Reconciled
412428	SANTA MARGARITA FORD	8-Oct-20	1,941.09	IRWD Check	Reconciled
412429	SCHWEITZER ENGINEERING LABORATORIES, INC.	8-Oct-20	4,016.92	IRWD Check	Reconciled
412430	SCOTT FOSTER ENGINEERING, INC.	8-Oct-20	4,070.00	IRWD Check	Reconciled
412431	SEA ENTERPRISES	8-Oct-20	47.53	IRWD Check	Negotiable
412432	SEAL ANALYTICAL INC	8-Oct-20	1,470.35	IRWD Check	Reconciled
412433	SHAMROCK SUPPLY CO INC	8-Oct-20	380.88	IRWD Check	Reconciled
412434	SHAO, LIJIE	8-Oct-20	25.44	IRWD Check	Negotiable
412435	SLATER, MARGUERITE	8-Oct-20	404.19	IRWD Check	Reconciled
412436	SOUTH BAY FOUNDRY, INC	8-Oct-20	13,568.96	IRWD Check	Reconciled
412437	SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT	8-Oct-20	557.42	IRWD Check	Reconciled
412438	SOUTH COAST BOBCAT	8-Oct-20	120.97	IRWD Check	Reconciled
412439	SOUTH ORANGE COUNTY WASTEWATER AUTHORITY	8-Oct-20	33,440.00	IRWD Check	Reconciled
412440	SOUTHERN CALIFORNIA EDISON COMPANY	8-Oct-20	268,428.66	IRWD Check	Reconciled
412441	SOUTHERN CALIFORNIA PUBLIC LABOR RELATIONS COUNCIL	8-Oct-20	250.00	IRWD Check	Reconciled
412442	SPATIAL WAVE, INC.	8-Oct-20	780.00	IRWD Check	Reconciled
412443	STANFORD COURT APARTMENTS	8-Oct-20	168.29	IRWD Check	Reconciled
412444	STANTEC CONSULTING SERVICES INC.	8-Oct-20	10,493.50	IRWD Check	Reconciled
412445	STRADLING YOCCA CARLSON & RAUTH	8-Oct-20	224.00	IRWD Check	Reconciled
412446	SURF CITY OPTOMETRY	8-Oct-20	225.00	IRWD Check	Reconciled
412447	SUSAN A. SIROTA	8-Oct-20	4,660.00	IRWD Check	Reconciled
412448	SWAINS ELECTRIC MOTOR SERVICE	8-Oct-20	8,833.70	IRWD Check	Negotiable
412449	TAIT ENVIRONMENTAL SERVICES, INC.	8-Oct-20	446.20	IRWD Check	Reconciled
412450	TANKVISIONS, INC	8-Oct-20	30.00	IRWD Check	Reconciled
412451	TECHNOLOGY INTEGRATION GROUP	8-Oct-20	2,180.00	IRWD Check	Reconciled
412452	TETRA TECH, INC	8-Oct-20	48,692.04	IRWD Check	Reconciled
412453	THOMPSON INDUSTRIAL SUPPLY	8-Oct-20	2,529.57	IRWD Check	Reconciled
412454	TOTAL RESOURCE MANAGEMENT, INC	8-Oct-20	155,008.49	IRWD Check	Reconciled
412455	TOURTELOT, LISA	8-Oct-20	73.88	IRWD Check	Reconciled
412456	TROPICAL PLAZA NURSERY INC	8-Oct-20	1,070.00	IRWD Check	Reconciled
412457	TSUJI, ERIKO	8-Oct-20	39.27	IRWD Check	Reconciled
412458	U.S. GAIN - A DIVISION OF U.S. VENTURE, INC.	8-Oct-20	162.67	IRWD Check	Reconciled
412459	UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA	8-Oct-20	2,529.50	IRWD Check	Reconciled
412460	UNITED HEALTHCARE INSURANCE COMPANY	8-Oct-20	299.75	IRWD Check	Reconciled
412461	UNITED PARCEL SERVICE INC	8-Oct-20	229.78	IRWD Check	Reconciled
412462	UNITED SITE SERVICES OF CALIFORNIA INC	8-Oct-20	835.67	IRWD Check	Reconciled
412463	V&A CONSULTING ENGINEERS	8-Oct-20	1,059.50	IRWD Check	Reconciled
412464	VERIZON WIRELESS SERVICES LLC	8-Oct-20	6,905.98	IRWD Check	Reconciled
412465	VERTECH INDUSTRIAL SYSTEMS, LLC	8-Oct-20	3,023.75	IRWD Check	Reconciled
412466	VULCAN MATERIALS COMPANY	8-Oct-20	1,495.74	IRWD Check	Reconciled
412467	VWR INTERNATIONAL, LLC	8-Oct-20	322.99	IRWD Check	Reconciled
412468	WALTERS WHOLESALE ELECTRIC	8-Oct-20	888.94	IRWD Check	Reconciled
412469	WASTE MANAGEMENT COLLECTIONS AND RECYCLING, INC.	8-Oct-20	6,483.81	IRWD Check	Reconciled
412470	WATERLINE TECHNOLOGIES INC	8-Oct-20	12,920.00	IRWD Check	Reconciled
412471	WATERSMART SOFTWARE INC	8-Oct-20	13,547.22	IRWD Check	Negotiable
412472	WAXIE'S ENTERPRISES, INC	8-Oct-20	1,495.50	IRWD Check	Reconciled
412473	WEBB, JUDY	8-Oct-20	35.42	IRWD Check	Negotiable
412474	WECK LABORATORIES INC	8-Oct-20	2,985.00	IRWD Check	Reconciled
412475	WEST YOST & ASSOCIATES	8-Oct-20	11,438.00	IRWD Check	Reconciled
412477	WOJTACZEK, DAVID	8-Oct-20	73.44	IRWD Check	Reconciled
412478	WOODBIDGE WILLOWS APARTMENTS	8-Oct-20	36.96	IRWD Check	Reconciled
412479	WORKFORCE SAFETY LLC	8-Oct-20	1,500.00	IRWD Check	Negotiable
412480	YANG, HUAN	8-Oct-20	45.06	IRWD Check	Negotiable
412481	YUAN, MING YU	8-Oct-20	47.12	IRWD Check	Reconciled
412482	ZOLL MEDICAL CORPORATION	8-Oct-20	7,990.00	IRWD Check	Reconciled
412483	Breiter, Michelle	15-Oct-20	13.90	IRWD Check	Negotiable
412484	Burk, Rachael	15-Oct-20	165.00	IRWD Check	Negotiable

**IRVINE RANCH WATER DISTRICT
AP DISBURSEMENTS AND VOIDS FOR OCTOBER 2020**

CHECK OR ELECTRONIC #	SUPPLIERS	PAYMENT DATE	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
412485	Cortez, Malcolm A (Malcolm)	15-Oct-20	50.88	IRWD Check	Negotiable
412486	Flores, Jorge	15-Oct-20	283.00	IRWD Check	Reconciled
412487	Nelson, Mark D (Mark)	15-Oct-20	269.53	IRWD Check	Reconciled
412488	Saldana Rodriguez, Cristina	15-Oct-20	125.00	IRWD Check	Reconciled
412489	Yanes, Harry	15-Oct-20	1,271.40	IRWD Check	Reconciled
412490	A&A WIPING CLOTH CO	15-Oct-20	1,336.10	IRWD Check	Reconciled
412491	ACCUSOURCE, INC.	15-Oct-20	746.21	IRWD Check	Reconciled
412492	ACCUSTANDARD INC	15-Oct-20	622.49	IRWD Check	Reconciled
412493	ADAMS, KAREN	15-Oct-20	109.99	IRWD Check	Reconciled
412494	ADS LLC	15-Oct-20	2,250.00	IRWD Check	Reconciled
412495	AGILENT TECHNOLOGIES, INC.	15-Oct-20	805.18	IRWD Check	Reconciled
412496	ALAN SMITH POOL PLASTERING, INC	15-Oct-20	1,051.67	IRWD Check	Negotiable
412497	ALEXANDER'S CONTRACT SERVICES, INC.	15-Oct-20	124,389.00	IRWD Check	Reconciled
412498	AMAZON CAPITAL SERVICES, INC.	15-Oct-20	984.87	IRWD Check	Reconciled
412499	AQUATIC TECHNOLOGIES	15-Oct-20	1,678.40	IRWD Check	Reconciled
412500	ARIZONA PIPELINE CO.	15-Oct-20	973.75	IRWD Check	Reconciled
412501	AT&T	15-Oct-20	173.84	IRWD Check	Reconciled
412502	AT&T	15-Oct-20	81.48	IRWD Check	Reconciled
412503	AUTOZONE PARTS, INC.	15-Oct-20	3,342.13	IRWD Check	Reconciled
412504	BARTEL ASSOCIATES, LLC	15-Oct-20	1,565.00	IRWD Check	Reconciled
412505	BATTERIES PLUS AND BATTERIES PLUS BULBS	15-Oct-20	2,862.92	IRWD Check	Reconciled
412506	BOFA SECURITIES, INC.	15-Oct-20	14,604.37	IRWD Check	Reconciled
412507	BONDURANT, JERRY	15-Oct-20	540.51	IRWD Check	Reconciled
412508	BOSCH, ABRAHAM	15-Oct-20	81.50	IRWD Check	Negotiable
412509	BRENNTAG PACIFIC INC	15-Oct-20	4,140.00	IRWD Check	Reconciled
412510	BROOKFIELD EASTWOOD TRIPLEX LLC	15-Oct-20	58.18	IRWD Check	Negotiable
412511	C WELLS PIPELINE MATERIALS INC	15-Oct-20	10,775.00	IRWD Check	Reconciled
412512	CALIFORNIA COUNCIL FOR ENVIRONMENTAL AND ECONOMIC BALANCE	15-Oct-20	32,000.00	IRWD Check	Reconciled
412513	CALIFORNIA DEPARTMENT OF TAX AND FEE ADMINISTRATION	15-Oct-20	4,551.00	IRWD Check	Reconciled
412514	CALIFORNIA EARTH TRANSPORT, INC.	15-Oct-20	1,522.67	IRWD Check	Reconciled
412515	CANON FINANCIAL SERVICES, INC	15-Oct-20	8,343.56	IRWD Check	Reconciled
412516	CANON SOLUTIONS AMERICA, INC.	15-Oct-20	900.00	IRWD Check	Reconciled
412517	CARCHIPULLA, ADRIANA	15-Oct-20	46.61	IRWD Check	Reconciled
412518	CHOI, SEONGSOON	15-Oct-20	39.60	IRWD Check	Negotiable
412519	CJW CONSTRUCTION	15-Oct-20	1,388.33	IRWD Check	Reconciled
412520	CLA-VAL COMPANY	15-Oct-20	1,322.40	IRWD Check	Reconciled
412521	CLARIS STRATEGY INC.	15-Oct-20	6,746.50	IRWD Check	Reconciled
412522	CLARKE MOSQUITO CONTROL PRODUCTS, INC.	15-Oct-20	1,997.65	IRWD Check	Reconciled
412523	COLE, ANDREA	15-Oct-20	58.35	IRWD Check	Reconciled
412524	CONSTELLATION NEWENERGY, INC.	15-Oct-20	24,182.75	IRWD Check	Reconciled
412525	CR & R INCORPORATED	15-Oct-20	428.34	IRWD Check	Reconciled
412526	CUESTA CONSTRUCTION COMPANY	15-Oct-20	1,272.57	IRWD Check	Negotiable
412527	D & H WATER SYSTEMS INC.	15-Oct-20	5,378.87	IRWD Check	Reconciled
412528	DANESH DAHREINY, SINA	15-Oct-20	56.50	IRWD Check	Reconciled
412529	DATA CLEAN CORPORATION	15-Oct-20	559.00	IRWD Check	Reconciled
412530	DEALERS SERVICE COMPANY, INC	15-Oct-20	1,203.83	IRWD Check	Reconciled
412531	DELL MARKETING LP	15-Oct-20	88,302.57	IRWD Check	Reconciled
412532	DEX MEDIA, INC.	15-Oct-20	91.58	IRWD Check	Reconciled
412533	DHL EXPRESS (USA INC.)	15-Oct-20	72.79	IRWD Check	Reconciled
412534	DUDLEY RIDGE WATER DISTRICT	15-Oct-20	88,043.35	IRWD Check	Reconciled
412535	DUGALLY OBERFELD, INC.	15-Oct-20	1,077.10	IRWD Check	Negotiable
412536	EAGLE PRINT DYNAMICS	15-Oct-20	5,531.33	IRWD Check	Reconciled
412537	EHS INTERNATIONAL, INC	15-Oct-20	400.00	IRWD Check	Reconciled
412538	EMEDCO	15-Oct-20	439.40	IRWD Check	Reconciled
412539	ENVIRONMENTAL EXPRESS INC	15-Oct-20	741.03	IRWD Check	Reconciled
412540	ENVIRONMENTAL RESOURCE ASSOCIATES	15-Oct-20	653.13	IRWD Check	Reconciled
412541	EVERETT DOREY LLP	15-Oct-20	9,783.05	IRWD Check	Reconciled
412542	EVOLVE PARTNERS LLC	15-Oct-20	40,042.45	IRWD Check	Reconciled
412543	EXECUTIVE LIGHTING & ELECTRIC	15-Oct-20	1,389.48	IRWD Check	Reconciled
412544	FARRELL & ASSOCIATES	15-Oct-20	148.77	IRWD Check	Reconciled
412545	FEDEX	15-Oct-20	175.98	IRWD Check	Reconciled
412546	FEDEX NATIONAL LTL, INC	15-Oct-20	617.41	IRWD Check	Reconciled
412547	FERGUSON ENTERPRISES, LLC	15-Oct-20	702.53	IRWD Check	Reconciled
412548	FIONA HUTTON & ASSOCIATES, INC.	15-Oct-20	18,041.67	IRWD Check	Reconciled
412549	FIRE EXTINGUISHING SAFETY & SERVICE	15-Oct-20	782.71	IRWD Check	Reconciled
412550	FIRST CHOICE SERVICES	15-Oct-20	741.76	IRWD Check	Reconciled
412551	FISHER SCIENTIFIC COMPANY LLC	15-Oct-20	302.45	IRWD Check	Reconciled
412552	FLW SERVICE CORPORATION	15-Oct-20	755.00	IRWD Check	Reconciled

**IRVINE RANCH WATER DISTRICT
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CHECK OR ELECTRONIC #	SUPPLIERS	PAYMENT DATE	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
412553	FOUGHT, CYNTHIA J.	15-Oct-20	2,644.53	IRWD Check	Reconciled
412554	FRONTIER CALIFORNIA INC.	15-Oct-20	57.77	IRWD Check	Reconciled
412555	GANAHL LUMBER CO.	15-Oct-20	2,138.90	IRWD Check	Reconciled
412556	GEORGE HILLS COMPANY, INC.	15-Oct-20	243.00	IRWD Check	Reconciled
412557	GOLDMAN, SACHS & CO. LLC	15-Oct-20	13,825.14	IRWD Check	Reconciled
412558	GRAINGER	15-Oct-20	2,062.71	IRWD Check	Reconciled
412559	GRAYBAR ELECTRIC COMPANY	15-Oct-20	3,940.12	IRWD Check	Reconciled
412560	GSRP ST SOLAR I LLC	15-Oct-20	10,826.31	IRWD Check	Reconciled
412561	GUEVARA, JUAN	15-Oct-20	101.03	IRWD Check	Negotiable
412562	HAAKER EQUIPMENT COMPANY	15-Oct-20	1,238.64	IRWD Check	Reconciled
412563	HACH COMPANY	15-Oct-20	5,570.02	IRWD Check	Reconciled
412564	HARRINGTON INDUSTRIAL PLASTICS LLC	15-Oct-20	7,191.84	IRWD Check	Reconciled
412565	HART, WALLACE	15-Oct-20	41.65	IRWD Check	Reconciled
412566	HARTSOCK, BRANT	15-Oct-20	182.38	IRWD Check	Reconciled
412567	HDR ENGINEERING INC	15-Oct-20	13,812.50	IRWD Check	Reconciled
412568	HELLAR, JILL	15-Oct-20	15.03	IRWD Check	Negotiable
412569	HELPMATES STAFFING SERVICES	15-Oct-20	10,333.48	IRWD Check	Reconciled
412570	HENRIQUEZ, BRIAN	15-Oct-20	42.54	IRWD Check	Reconciled
412571	HI-LINE INC	15-Oct-20	278.23	IRWD Check	Reconciled
412572	HOME DEPOT USA INC	15-Oct-20	114.21	IRWD Check	Reconciled
412573	HONARVAR, BOB	15-Oct-20	40.86	IRWD Check	Reconciled
412574	HUNSAKER & ASSOCIATES IRVINE	15-Oct-20	1,200.00	IRWD Check	Reconciled
412575	ICP DAS USA INC	15-Oct-20	2,569.01	IRWD Check	Reconciled
412576	IMPERIAL SPRINKLER SUPPLY, INC.	15-Oct-20	1,071.20	IRWD Check	Reconciled
412577	INDUSTRIAL METAL SUPPLY CO	15-Oct-20	95.83	IRWD Check	Reconciled
412578	INFOSEND, INC.	15-Oct-20	33,672.87	IRWD Check	Reconciled
412579	INTEGRITY MUNICIPAL SERVICES LLC	15-Oct-20	2,500.00	IRWD Check	Reconciled
412580	ION WAVE TECHNOLOGIES, INC.	15-Oct-20	21,500.00	IRWD Check	Reconciled
412581	IRON MOUNTAIN INFORMATION MANAGEMENT INC	15-Oct-20	2,077.48	IRWD Check	Reconciled
412582	IRVINE MANAGEMENT COMPANY	15-Oct-20	3,796.22	IRWD Check	Reconciled
412583	IRVINE PIPE & SUPPLY INC	15-Oct-20	456.43	IRWD Check	Reconciled
412584	IRVINE UNIFIED SCHOOL DISTRICT	15-Oct-20	1,315.75	IRWD Check	Reconciled
412585	IRWD-PETTY CASH CUSTODIAN	15-Oct-20	498.33	IRWD Check	Reconciled
412586	JACK DOHENY COMPANIES INC	15-Oct-20	10,691.20	IRWD Check	Reconciled
412587	JAMAL, SAMIRA	15-Oct-20	21.33	IRWD Check	Negotiable
412588	JIG CONSULTANTS	15-Oct-20	11,865.00	IRWD Check	Negotiable
412589	KENT DAHLBERG	15-Oct-20	24,341.25	IRWD Check	Reconciled
412590	KIM, DAEJUNG	15-Oct-20	18.80	IRWD Check	Negotiable
412591	KRONICK MOSKOVITZ TIEDEMANN & GIRARD	15-Oct-20	64,778.85	IRWD Check	Reconciled
412592	LAGUNA BEACH COUNTY WATER DISTRICT	15-Oct-20	3,934.56	IRWD Check	Reconciled
412593	LAKERIDGE HOA	15-Oct-20	11,267.88	IRWD Check	Reconciled
412594	LANDCARE HOLDINGS, INC.	15-Oct-20	52,500.96	IRWD Check	Reconciled
412595	LENNAR HOMES	15-Oct-20	970.54	IRWD Check	Reconciled
412596	LOUNSBURY, ROBERT	15-Oct-20	77.48	IRWD Check	Negotiable
412597	LUBRICATION ENGINEERS, INC.	15-Oct-20	1,108.62	IRWD Check	Reconciled
412598	MAP COMMUNICATIONS, INC.	15-Oct-20	3,172.50	IRWD Check	Reconciled
412599	MARINA LANDSCAPE	15-Oct-20	876.36	IRWD Check	Negotiable
412600	MARK COMPANY	15-Oct-20	942.33	IRWD Check	Reconciled
412601	MARK KADESH	15-Oct-20	10,000.00	IRWD Check	Negotiable
412602	MC MASTER CARR SUPPLY CO	15-Oct-20	865.12	IRWD Check	Reconciled
412603	MCCLAINS FURNITURE	15-Oct-20	6,600.00	IRWD Check	Reconciled
412604	MISSION COMMUNICATIONS, LLC	15-Oct-20	2,959.80	IRWD Check	Reconciled
412605	MISSION PAVING & SEALING, INC.	15-Oct-20	1,703.67	IRWD Check	Reconciled
412606	MSC INDUSTRIAL SUPPLY CO	15-Oct-20	157.72	IRWD Check	Reconciled
412607	MUNICIPAL UNDERGROUND SERVICES INC	15-Oct-20	2,250.00	IRWD Check	Reconciled
412608	MUNICIPAL WATER DISTRICT OF ORANGE COUNTY	15-Oct-20	162,216.34	IRWD Check	Reconciled
412609	MUTUAL PROPANE	15-Oct-20	36.00	IRWD Check	Reconciled
412610	NALCO US 2 INC	15-Oct-20	346.14	IRWD Check	Reconciled
412611	NEPTUNE TECHNOLOGY GROUP, INC.	15-Oct-20	136,066.70	IRWD Check	Reconciled
412612	NOH, JOHN	15-Oct-20	54.06	IRWD Check	Negotiable
412613	NV5, INC.	15-Oct-20	14,560.00	IRWD Check	Negotiable
412614	OLIN CORPORATION	15-Oct-20	23,440.27	IRWD Check	Reconciled
412615	ORANGE COUNTY AUTO PARTS CO	15-Oct-20	626.78	IRWD Check	Reconciled
412616	ORANGE COUNTY MOSQUITO AND VECTOR CONTROL DISTRICT	15-Oct-20	74.45	IRWD Check	Negotiable
412617	ORANGE COUNTY SANITATION DISTRICT	15-Oct-20	13,780.03	IRWD Check	Reconciled
412618	PACIFIC COAST BOLT CORP	15-Oct-20	3,886.77	IRWD Check	Reconciled
412619	PACIFIC PARTS & CONTROLS INC	15-Oct-20	3,157.19	IRWD Check	Reconciled
412620	PACIFIC STAR CHEMICAL, LLC	15-Oct-20	1,150.77	IRWD Check	Reconciled

**IRVINE RANCH WATER DISTRICT
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CHECK OR ELECTRONIC #	SUPPLIERS	PAYMENT DATE	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
412621	PAPER DEPOT DOCUMENT DESTRUCTION LLC	15-Oct-20	112.00	IRWD Check	Reconciled
412622	PAYNE & FEARS LLP	15-Oct-20	2,238.50	IRWD Check	Reconciled
412623	PENN ARCHIVE SERVICES	15-Oct-20	62.20	IRWD Check	Reconciled
412624	PERKINELMER HEALTH SCIENCES INC	15-Oct-20	553.76	IRWD Check	Reconciled
412625	PHAN, TRI	15-Oct-20	90.60	IRWD Check	Negotiable
412626	PORTACRAFT INC	15-Oct-20	6,098.65	IRWD Check	Reconciled
412627	PRAXAIR DISTRIBUTION INC	15-Oct-20	1,689.37	IRWD Check	Reconciled
412628	PREMIER PAVING INC.	15-Oct-20	1,479.68	IRWD Check	Reconciled
412630	PSOMAS	15-Oct-20	15,483.75	IRWD Check	Reconciled
412631	PURINGTON, KAITLYN	15-Oct-20	59.53	IRWD Check	Negotiable
412632	QUINN, CLARITA	15-Oct-20	86.73	IRWD Check	Reconciled
412633	RAM AIR ENGINEERING INC	15-Oct-20	708.66	IRWD Check	Reconciled
412634	REAL WATER CONSULTANTS INC.	15-Oct-20	28,529.00	IRWD Check	Reconciled
412635	RESILIENT COMMUNICATIONS INC.	15-Oct-20	23,838.14	IRWD Check	Reconciled
412636	RINCON TRUCK CENTER INC.	15-Oct-20	2,953.34	IRWD Check	Reconciled
412637	RLG ENTERPRISES, INC	15-Oct-20	402.52	IRWD Check	Reconciled
412638	SAN DIEGO FLUID SYSTEM TECH	15-Oct-20	287.54	IRWD Check	Reconciled
412639	SANTA ANA BLUE PRINT	15-Oct-20	1,007.46	IRWD Check	Reconciled
412640	SECURITAS SECURITY SERVICES USA, INC.	15-Oct-20	24,770.32	IRWD Check	Reconciled
412641	SHAMROCK SUPPLY CO INC	15-Oct-20	577.38	IRWD Check	Reconciled
412642	SHIH, DAVID	15-Oct-20	240.00	IRWD Check	Reconciled
412643	SMT AUTOMOTIVE LLC	15-Oct-20	124.02	IRWD Check	Reconciled
412644	SOUTH COAST WATER CO.	15-Oct-20	95.00	IRWD Check	Reconciled
412645	SOUTHERN CALIFORNIA EDISON COMPANY	15-Oct-20	16,015.13	IRWD Check	Reconciled
412646	SOUTHERN CALIFORNIA GAS COMPANY	15-Oct-20	10,535.11	IRWD Check	Reconciled
412647	SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY	15-Oct-20	13,000.00	IRWD Check	Reconciled
412648	SPARKLETTS	15-Oct-20	309.00	IRWD Check	Reconciled
412649	STANTEC CONSULTING SERVICES INC.	15-Oct-20	1,200.00	IRWD Check	Reconciled
412651	STICE COMPANY, INC	15-Oct-20	1,900.00	IRWD Check	Reconciled
412652	TELEDYNE INSTRUMENTS, INC.	15-Oct-20	32,440.08	IRWD Check	Reconciled
412653	THOMPSON INDUSTRIAL SUPPLY	15-Oct-20	2,212.81	IRWD Check	Reconciled
412654	TRABUCO CANYON WATER DISTRICT	15-Oct-20	73,466.26	IRWD Check	Reconciled
412655	TRC DEVELOPMENT CO.	15-Oct-20	1,900.00	IRWD Check	Reconciled
412656	TRI POINTE HOMES, INC.	15-Oct-20	1,439.92	IRWD Check	Reconciled
412657	TROPICAL PLAZA NURSERY INC	15-Oct-20	2,981.46	IRWD Check	Reconciled
412658	UNITED AMERICAN PROPERTIES INC	15-Oct-20	66.38	IRWD Check	Negotiable
412659	UNIVAR SOLUTIONS USA INC.	15-Oct-20	5,357.33	IRWD Check	Reconciled
412660	US BANK NAT'L ASSOC N.DAKOTA	15-Oct-20	9,677.59	IRWD Check	Reconciled
412661	VAUGHAN'S INDUSTRIAL REPAIR CO INC	15-Oct-20	750.00	IRWD Check	Reconciled
412662	VUPPULA, VIDYADHAR	15-Oct-20	59.28	IRWD Check	Reconciled
412663	WANG, SHARON	15-Oct-20	512.68	IRWD Check	Reconciled
412664	WASTE MANAGEMENT COLLECTIONS AND RECYCLING, INC.	15-Oct-20	657.33	IRWD Check	Reconciled
412665	WEST YOST & ASSOCIATES	15-Oct-20	17,274.00	IRWD Check	Reconciled
412666	WILK, ANDREW	15-Oct-20	15.89	IRWD Check	Negotiable
412667	WORKPLACE SOLUTIONS LLC	15-Oct-20	1,852.22	IRWD Check	Reconciled
412668	XYLEM WATER SOLUTIONS USA, INC.	15-Oct-20	137,531.03	IRWD Check	Reconciled
412669	YAU, MARCUS	15-Oct-20	899.07	IRWD Check	Reconciled
412670	YSI, INC	15-Oct-20	18,371.87	IRWD Check	Reconciled
412671	ZEBRON CONTRACTING INC	15-Oct-20	6,500.00	IRWD Check	Reconciled
412672	ZHANG, HEBING	15-Oct-20	63.73	IRWD Check	Negotiable
412673	ZHAO, KAI	15-Oct-20	1,092.60	IRWD Check	Negotiable
412674	ZHAO, YUE	15-Oct-20	3,000.00	IRWD Check	Reconciled
412675	ZIMA CORPORATION	15-Oct-20	1,786.50	IRWD Check	Reconciled
412676	AIRGAS, INC.	19-Oct-20	74.22	IRWD Check	Reconciled
412677	Bertsch, Frederick J (Jeff)	22-Oct-20	174.76	IRWD Check	Negotiable
412678	Drew, Michael A	22-Oct-20	90.00	IRWD Check	Reconciled
412679	Ryan, Sabrina N	22-Oct-20	69.00	IRWD Check	Reconciled
412680	PROCARE WORK INJURY CENTER	22-Oct-20	-	IRWD Check	Negotiable
412681	PROCARE WORK INJURY CENTER	22-Oct-20	1,356.44	IRWD Check	Reconciled
412682	A & R CORPORATION INC.	22-Oct-20	981.55	IRWD Check	Reconciled
412683	A&Y ASPHALT CONTRACTORS, INC.	22-Oct-20	4,360.50	IRWD Check	Reconciled
412684	ABM INDUSTRY GROUPS, LLC	22-Oct-20	41,961.33	IRWD Check	Reconciled
412685	ADAM'S FALCONRY SERVICE, LLC	22-Oct-20	2,340.00	IRWD Check	Reconciled
412686	ADT SECURITY SERVICES INC	22-Oct-20	412.47	IRWD Check	Negotiable
412687	AIRGAS, INC.	22-Oct-20	1,701.61	IRWD Check	Reconciled
412688	AMERICAN GEOTECHNICAL, INC.	22-Oct-20	307.50	IRWD Check	Reconciled
412689	ANCHOR SCIENTIFIC INC	22-Oct-20	653.34	IRWD Check	Reconciled
412690	ANTHEM BLUE CROSS	22-Oct-20	257.88	IRWD Check	Reconciled

**IRVINE RANCH WATER DISTRICT
AP DISBURSEMENTS AND VOIDS FOR OCTOBER 2020**

CHECK OR ELECTRONIC #	SUPPLIERS	PAYMENT DATE	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
412691	APEX SYSTEMS, LLC	22-Oct-20	20,592.00	IRWD Check	Reconciled
412692	ARMORCAST PRODUCTS COMPANY	22-Oct-20	14,829.58	IRWD Check	Reconciled
412693	AT&T	22-Oct-20	1,668.87	IRWD Check	Reconciled
412694	AT&T	22-Oct-20	11,753.00	IRWD Check	Reconciled
412695	ATHENS SERVICES	22-Oct-20	2,777.04	IRWD Check	Reconciled
412696	ATHENS SERVICES	22-Oct-20	8,020.12	IRWD Check	Reconciled
412697	BATTERIES PLUS AND BATTERIES PLUS BULBS	22-Oct-20	185.20	IRWD Check	Reconciled
412698	BILL'S SWEEPING SERVICE INC	22-Oct-20	796.00	IRWD Check	Reconciled
412699	BIOMAGIC INC	22-Oct-20	16,319.44	IRWD Check	Reconciled
412700	BLAIRS TOWING INC	22-Oct-20	175.00	IRWD Check	Reconciled
412701	BOYD & ASSOCIATES	22-Oct-20	93.00	IRWD Check	Reconciled
412702	BRETSCHGER, PETER E	22-Oct-20	936.90	IRWD Check	Reconciled
412703	BROWN AND CALDWELL	22-Oct-20	2,808.75	IRWD Check	Reconciled
412704	C WELLS PIPELINE MATERIALS INC	22-Oct-20	7,172.51	IRWD Check	Reconciled
412705	CALIFORNIA BARRICADE RENTAL, INC.	22-Oct-20	30,618.75	IRWD Check	Reconciled
412706	CANNON CORPORATION	22-Oct-20	14,205.50	IRWD Check	Reconciled
412707	CAROLLO ENGINEERS, INC	22-Oct-20	28,830.00	IRWD Check	Reconciled
412708	CEDAR CREEK APARTMENTS	22-Oct-20	32.60	IRWD Check	Negotiable
412709	CHEM TECH INTERNATIONAL INC	22-Oct-20	13,732.38	IRWD Check	Reconciled
412710	CITY CIRCUIT BREAKERS	22-Oct-20	678.02	IRWD Check	Reconciled
412711	CITY OF IRVINE	22-Oct-20	5,312.80	IRWD Check	Reconciled
412712	CITY OF LAKE FOREST	22-Oct-20	9,694.50	IRWD Check	Negotiable
412713	CITY OF SANTA ANA	22-Oct-20	523.85	IRWD Check	Reconciled
412714	CLA-VAL COMPANY	22-Oct-20	19,847.47	IRWD Check	Reconciled
412715	CONSTELLATION NEWENERGY, INC.	22-Oct-20	23,517.39	IRWD Check	Reconciled
412716	CPC SYSTEMS, INC.	22-Oct-20	1,642.50	IRWD Check	Reconciled
412717	CROSS CREEK APTS	22-Oct-20	237.16	IRWD Check	Negotiable
412718	CULLIGAN OF SANTA ANA	22-Oct-20	22,000.00	IRWD Check	Reconciled
412719	DAN'S MACHINE TOOL, INC.	22-Oct-20	322.71	IRWD Check	Reconciled
412720	DAVIS FARR LLP	22-Oct-20	25,000.00	IRWD Check	Reconciled
412721	DILYTICS INC	22-Oct-20	3,550.00	IRWD Check	Negotiable
412722	DMC ENGINEERING INC	22-Oct-20	9,197.23	IRWD Check	Negotiable
412723	DUDEK	22-Oct-20	180.00	IRWD Check	Reconciled
412724	ECO SERVICES LLC	22-Oct-20	5,603.07	IRWD Check	Reconciled
412725	EHS INTERNATIONAL, INC	22-Oct-20	400.00	IRWD Check	Reconciled
412726	ENDRESS AND HAUSER INC	22-Oct-20	9,980.00	IRWD Check	Reconciled
412727	ENVIRONMENTAL EXPRESS INC	22-Oct-20	1,158.29	IRWD Check	Reconciled
412728	ENVIRONMENTAL RESOURCE ASSOCIATES	22-Oct-20	5,878.58	IRWD Check	Reconciled
412729	EUROFINS CALSCIENCE, LLC	22-Oct-20	5,601.75	IRWD Check	Reconciled
412730	EXECUTIVE LIGHTING & ELECTRIC	22-Oct-20	556.17	IRWD Check	Reconciled
412731	FARRELL & ASSOCIATES	22-Oct-20	1,028.91	IRWD Check	Reconciled
412732	FERGUSON ENTERPRISES, LLC	22-Oct-20	4,422.06	IRWD Check	Reconciled
412733	FISERV SOLUTIONS, LLC	22-Oct-20	21,875.02	IRWD Check	Reconciled
412734	FISHER SCIENTIFIC COMPANY LLC	22-Oct-20	5,218.41	IRWD Check	Reconciled
412735	FRANCHISE TAX BOARD	22-Oct-20	945.48	IRWD Check	Negotiable
412736	FRONTIER CALIFORNIA INC.	22-Oct-20	530.07	IRWD Check	Reconciled
412737	GANAHL LUMBER CO.	22-Oct-20	31.42	IRWD Check	Reconciled
412738	GI ENDURANT LLC	22-Oct-20	16,162.50	IRWD Check	Reconciled
412739	GRAINGER	22-Oct-20	1,722.13	IRWD Check	Reconciled
412740	HAAKER EQUIPMENT COMPANY	22-Oct-20	1,291.22	IRWD Check	Reconciled
412741	HACH COMPANY	22-Oct-20	4,628.85	IRWD Check	Reconciled
412742	HAMEL, JAMES	22-Oct-20	43.17	IRWD Check	Negotiable
412743	HARPER & ASSOCIATES ENGINEERING INC	22-Oct-20	1,615.00	IRWD Check	Negotiable
412744	HARRINGTON INDUSTRIAL PLASTICS LLC	22-Oct-20	13,745.47	IRWD Check	Reconciled
412745	HDR ENGINEERING INC	22-Oct-20	14,818.00	IRWD Check	Reconciled
412746	HELPMATES STAFFING SERVICES	22-Oct-20	14,469.04	IRWD Check	Reconciled
412747	HI-LINE INC	22-Oct-20	481.65	IRWD Check	Reconciled
412748	HU, BOYU	22-Oct-20	22.86	IRWD Check	Negotiable
412749	IMPERIAL SPRINKLER SUPPLY, INC.	22-Oct-20	1,056.10	IRWD Check	Reconciled
412750	INDUSTRIAL NETWORKING SOLUTIONS	22-Oct-20	3,072.47	IRWD Check	Reconciled
412751	INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS LOCAL 47	22-Oct-20	2,815.99	IRWD Check	Reconciled
412752	IRVINE PIPE & SUPPLY INC	22-Oct-20	9,313.12	IRWD Check	Reconciled
412753	IRWD-PETTY CASH CUSTODIAN	22-Oct-20	718.61	IRWD Check	Reconciled
412754	JCI JONES CHEMICALS INC	22-Oct-20	4,817.52	IRWD Check	Reconciled
412755	JIG CONSULTANTS	22-Oct-20	1,865.00	IRWD Check	Negotiable
412756	KAESER COMPRESSORS, INC.	22-Oct-20	905.21	IRWD Check	Reconciled
412757	KENT DAHLBERG	22-Oct-20	25,009.78	IRWD Check	Negotiable
412758	KIMBALL MIDWEST	22-Oct-20	652.68	IRWD Check	Reconciled

**IRVINE RANCH WATER DISTRICT
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CHECK OR ELECTRONIC #	SUPPLIERS	PAYMENT DATE	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
412759	KROHNE, INC	22-Oct-20	1,566.45	IRWD Check	Reconciled
412760	LA HABRA FENCE COMPANY INC	22-Oct-20	19,977.00	IRWD Check	Negotiable
412761	LANDCARE HOLDINGS, INC.	22-Oct-20	2,651.00	IRWD Check	Reconciled
412762	LAU, YIETING	22-Oct-20	614.08	IRWD Check	Negotiable
412763	LAYTON CONSTRUCTION COMPANY, LLC	22-Oct-20	543,746.18	IRWD Check	Reconciled
412764	LCS TECHNOLOGIES, INC.	22-Oct-20	540.00	IRWD Check	Reconciled
412765	LEE, MEE	22-Oct-20	17.34	IRWD Check	Negotiable
412766	LI, YAPING	22-Oct-20	7.45	IRWD Check	Negotiable
412767	LIFECOM, INC.	22-Oct-20	1,674.85	IRWD Check	Reconciled
412768	LIU, HAI	22-Oct-20	58.67	IRWD Check	Reconciled
412769	LOUCKS, KAREN	22-Oct-20	25.70	IRWD Check	Negotiable
412770	LSA ASSOCIATES INC	22-Oct-20	9,199.87	IRWD Check	Reconciled
412771	LUBRICATION ENGINEERS, INC.	22-Oct-20	8,476.33	IRWD Check	Reconciled
412772	M L KISHIGO MANUFACTURING CO	22-Oct-20	79.34	IRWD Check	Reconciled
412773	M.CUBED	22-Oct-20	1,718.75	IRWD Check	Reconciled
412774	MC MASTER CARR SUPPLY CO	22-Oct-20	56.74	IRWD Check	Reconciled
412775	MEDIAVALET INC.	22-Oct-20	12,000.00	IRWD Check	Negotiable
412776	MESA INTERNATIONAL TECHNOLOGIES, INC.	22-Oct-20	70.00	IRWD Check	Reconciled
412777	MICROSOFT CORPORATION	22-Oct-20	796.99	IRWD Check	Reconciled
412778	MOGHIMIAN, OVEIS	22-Oct-20	4.65	IRWD Check	Negotiable
412779	MOTION INDUSTRIES INC	22-Oct-20	215.93	IRWD Check	Reconciled
412780	MSC INDUSTRIAL SUPPLY CO	22-Oct-20	621.93	IRWD Check	Reconciled
412781	MUNICIPAL WATER DISTRICT OF ORANGE COUNTY	22-Oct-20	2,671.42	IRWD Check	Reconciled
412782	NALCO US 2 INC	22-Oct-20	565.69	IRWD Check	Reconciled
412783	NATIONAL READY MIXED CONCRETE SALES, LLC	22-Oct-20	754.49	IRWD Check	Reconciled
412784	NCH CORPORATION	22-Oct-20	1,236.18	IRWD Check	Reconciled
412785	NEGOV	22-Oct-20	22,649.99	IRWD Check	Reconciled
412786	NINYO & MOORE	22-Oct-20	1,434.50	IRWD Check	Reconciled
412787	NMG GEOTECHNICAL INC	22-Oct-20	9,027.60	IRWD Check	Reconciled
412788	OFFICE DEPOT INC	22-Oct-20	3,360.94	IRWD Check	Reconciled
412789	OLIN CORPORATION	22-Oct-20	19,895.39	IRWD Check	Reconciled
412790	ORACLE AMERICA, INC.	22-Oct-20	1,636.20	IRWD Check	Reconciled
412791	ORANGE COUNTY MOSQUITO AND VECTOR CONTROL DISTRICT	22-Oct-20	2,793.58	IRWD Check	Negotiable
412792	ORANGE COUNTY SHERIFF'S OFFICE	22-Oct-20	530.37	IRWD Check	Reconciled
412793	PARKHOUSE TIRE INC	22-Oct-20	2,755.16	IRWD Check	Reconciled
412794	PELLETIER & ASSOCIATES, INC.	22-Oct-20	315.00	IRWD Check	Reconciled
412795	PERKINELMER HEALTH SCIENCES INC	22-Oct-20	493.07	IRWD Check	Reconciled
412796	PERS LONG TERM CARE	22-Oct-20	538.89	IRWD Check	Reconciled
412797	PINNACLE TOWERS LLC	22-Oct-20	779.18	IRWD Check	Reconciled
412798	PLUMBERS DEPOT INC.	22-Oct-20	9,376.53	IRWD Check	Negotiable
412799	PRUDENTIAL OVERALL SUPPLY	22-Oct-20	6,942.17	IRWD Check	Reconciled
412800	PTI SAND & GRAVEL INC	22-Oct-20	1,157.41	IRWD Check	Reconciled
412801	QUALITY ENVIRONMENTAL CONTAINERS	22-Oct-20	5,340.00	IRWD Check	Reconciled
412802	R&B AUTOMATION, INC.	22-Oct-20	13,142.91	IRWD Check	Reconciled
412803	RAM AIR ENGINEERING INC	22-Oct-20	3,169.00	IRWD Check	Reconciled
412804	RED WING SHOE STORE	22-Oct-20	367.40	IRWD Check	Reconciled
412805	REFRIGERATION SUPPLIES DISTRIBUTOR	22-Oct-20	53.25	IRWD Check	Reconciled
412806	RENTOKIL NORTH AMERICA, INC	22-Oct-20	3,043.00	IRWD Check	Reconciled
412807	RINCON TRUCK CENTER INC.	22-Oct-20	655.55	IRWD Check	Reconciled
412808	S&S SEEDS INC	22-Oct-20	4,330.85	IRWD Check	Reconciled
412809	SAFETY CENTER INCORPORATED	22-Oct-20	5,236.00	IRWD Check	Reconciled
412810	SAFETY-KLEEN SYSTEMS, INC	22-Oct-20	307.50	IRWD Check	Reconciled
412811	SAN LEON APTS	22-Oct-20	34.85	IRWD Check	Negotiable
412812	SAN MARCO APARTMENTS	22-Oct-20	48.60	IRWD Check	Negotiable
412813	SAN MARINO APTS	22-Oct-20	74.03	IRWD Check	Negotiable
412814	SAN REMO APTS	22-Oct-20	72.05	IRWD Check	Negotiable
412815	SCHRUNK, MELANIE	22-Oct-20	48.51	IRWD Check	Reconciled
412816	SECURITAS SECURITY SERVICES USA, INC.	22-Oct-20	17,858.08	IRWD Check	Reconciled
412817	SHAMROCK SUPPLY CO INC	22-Oct-20	291.67	IRWD Check	Reconciled
412818	SHOETERIA	22-Oct-20	179.39	IRWD Check	Reconciled
412819	SOUTH COAST WATER DISTRICT	22-Oct-20	1,560.15	IRWD Check	Reconciled
412820	SOUTH ORANGE COUNTY WASTEWATER AUTHORITY	22-Oct-20	51,680.00	IRWD Check	Reconciled
412821	SOUTHERN CALIFORNIA EDISON COMPANY	22-Oct-20	527,921.90	IRWD Check	Reconciled
412822	SOUTHERN CALIFORNIA EDISON COMPANY	22-Oct-20	77.16	IRWD Check	Reconciled
412823	SOUTHERN CALIFORNIA GAS COMPANY	22-Oct-20	1,418.56	IRWD Check	Reconciled
412824	SPARKLETTS	22-Oct-20	148.00	IRWD Check	Negotiable
412825	SPATIAL WAVE, INC.	22-Oct-20	6,880.00	IRWD Check	Reconciled
412826	STACY DAN SCOTT	22-Oct-20	67,970.00	IRWD Check	Reconciled

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CHECK OR ELECTRONIC #	SUPPLIERS	PAYMENT DATE	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
412827	STANFORD COURT APARTMENTS	22-Oct-20	131.25	IRWD Check	Negotiable
412828	STERIS CORPORATION	22-Oct-20	5,379.42	IRWD Check	Reconciled
412829	SUKLE ADVERTISING INC.	22-Oct-20	41,400.00	IRWD Check	Reconciled
412830	TELEDYNE INSTRUMENTS, INC.	22-Oct-20	10,166.25	IRWD Check	Reconciled
412831	THE IRVINE COMPANY	22-Oct-20	1,377.90	IRWD Check	Reconciled
412832	THOMAS SCIENTIFIC HOLDINGS, LLC	22-Oct-20	214.95	IRWD Check	Negotiable
412833	THOMPSON INDUSTRIAL SUPPLY	22-Oct-20	3,839.17	IRWD Check	Reconciled
412834	TIC-IHC VENTURE LLC	22-Oct-20	122.53	IRWD Check	Reconciled
412835	TIC-IPG-COMMON	22-Oct-20	804.58	IRWD Check	Negotiable
412836	TIC-OFFICE PROPERTIES	22-Oct-20	607.85	IRWD Check	Negotiable
412837	TIC-RESORT PROPERTIES	22-Oct-20	267.25	IRWD Check	Negotiable
412838	TIC-RETAIL PROPERTIES	22-Oct-20	191.52	IRWD Check	Reconciled
412839	TIC-SPECTRUM OFFICE	22-Oct-20	1,550.21	IRWD Check	Negotiable
412840	TROPICAL PLAZA NURSERY INC	22-Oct-20	5,219.00	IRWD Check	Reconciled
412841	TRUCPARCO	22-Oct-20	172.20	IRWD Check	Negotiable
412842	UNITED PARCEL SERVICE INC	22-Oct-20	438.21	IRWD Check	Reconciled
412843	USA BLUEBOOK	22-Oct-20	295.18	IRWD Check	Negotiable
412844	USA WASTE OF CALIFORNIA, INC.	22-Oct-20	465.00	IRWD Check	Reconciled
412845	VICTAULIC COMPANY	22-Oct-20	30,439.38	IRWD Check	Reconciled
412846	VIDO ARTUKOVICH & SON, INC./VIDMAR, INC. A JV	22-Oct-20	24,837.94	IRWD Check	Reconciled
412847	VIDO ARTUKOVICH & SON, INC./VIDMAR, INC. A JV	22-Oct-20	471,920.82	IRWD Check	Reconciled
412848	VIRTUAL POLYMER COMPOUNDS	22-Oct-20	8,971.50	IRWD Check	Reconciled
412849	VWR INTERNATIONAL, LLC	22-Oct-20	388.10	IRWD Check	Reconciled
412850	WALTERS WHOLESALE ELECTRIC	22-Oct-20	264.88	IRWD Check	Reconciled
412851	WATER MANAGEMENT GROUP	22-Oct-20	875.00	IRWD Check	Reconciled
412852	WAXIE'S ENTERPRISES, INC	22-Oct-20	1,200.94	IRWD Check	Reconciled
412853	WECK LABORATORIES INC	22-Oct-20	11,737.00	IRWD Check	Reconciled
412854	WESTAMERICA COMMUNICATIONS, INC.	22-Oct-20	1,275.00	IRWD Check	Reconciled
412855	WIRELESS WATCHDOGS, LLC	22-Oct-20	1,652.00	IRWD Check	Reconciled
412856	YORK INSURANCE SERVICES GROUP INC - CA	22-Oct-20	8,584.25	IRWD Check	Reconciled
412857	YOUNGKER, CHUCK	22-Oct-20	38.21	IRWD Check	Reconciled
412858	ZHANG, QUEEN	22-Oct-20	102.27	IRWD Check	Negotiable
412859	Hufana, Mr. Eugenio D II (Gino)	29-Oct-20	62.10	IRWD Check	Negotiable
412860	COUNTY OF ORANGE	29-Oct-20	4,704.00	IRWD Check	Negotiable
412861	COUNTY OF ORANGE	29-Oct-20	14,885.25	IRWD Check	Negotiable
412862	A&Y ASPHALT CONTRACTORS, INC.	29-Oct-20	750.00	IRWD Check	Negotiable
412863	AAF INTERNATIONAL	29-Oct-20	1,706.06	IRWD Check	Negotiable
412864	AARON HALL AND ANA HITA	29-Oct-20	60.34	IRWD Check	Negotiable
412865	ABC ICE, INC	29-Oct-20	1,267.43	IRWD Check	Negotiable
412866	ABSOLUTE STANDARDS, INC.	29-Oct-20	1,819.00	IRWD Check	Negotiable
412867	ACCUSOURCE, INC.	29-Oct-20	618.53	IRWD Check	Negotiable
412868	AFLAC	29-Oct-20	6,745.20	IRWD Check	Negotiable
412869	AGILENT TECHNOLOGIES, INC.	29-Oct-20	384.87	IRWD Check	Negotiable
412870	AIRGAS, INC.	29-Oct-20	7,581.60	IRWD Check	Negotiable
412871	ALAVI, NEDA	29-Oct-20	36.19	IRWD Check	Negotiable
412872	ALAZZAWI, ABDULMAJEED	29-Oct-20	33.84	IRWD Check	Negotiable
412873	AMAZON CAPITAL SERVICES, INC.	29-Oct-20	2,455.82	IRWD Check	Negotiable
412874	ANDERSONPENNA PARTNERS, INC.	29-Oct-20	39,252.50	IRWD Check	Negotiable
412875	ANTHONY N. LARSEN	29-Oct-20	450.00	IRWD Check	Negotiable
412876	ANUP BARWAT AND ASHWINI BARWAT	29-Oct-20	115.35	IRWD Check	Negotiable
412877	APEX SYSTEMS, LLC	29-Oct-20	6,604.00	IRWD Check	Negotiable
412878	APPLIED ENGINEERING CONCEPTS	29-Oct-20	3,520.00	IRWD Check	Negotiable
412879	ARIZONA PIPELINE COMPANY	29-Oct-20	1,776.00	IRWD Check	Negotiable
412880	ASKELAND, RHONDA	29-Oct-20	43.77	IRWD Check	Negotiable
412881	ASSADI, FADI	29-Oct-20	38.71	IRWD Check	Negotiable
412882	ASSOCIATION OF CALIFORNIA WATER AGENCIES/JPIA	29-Oct-20	38,498.94	IRWD Check	Negotiable
412883	ASSOCIATION OF CALIFORNIA WATER AGENCIES/JPIA	29-Oct-20	1,447.49	IRWD Check	Negotiable
412884	AT&T	29-Oct-20	199.19	IRWD Check	Negotiable
412885	AT&T	29-Oct-20	283.87	IRWD Check	Negotiable
412886	ATTENTION FACILITIES DIRECTOR	29-Oct-20	104.75	IRWD Check	Negotiable
412887	AUTOZONE PARTS, INC.	29-Oct-20	1,392.26	IRWD Check	Negotiable
412888	BATTERIES PLUS AND BATTERIES PLUS BULBS	29-Oct-20	3,818.74	IRWD Check	Negotiable
412889	BRENNTAG PACIFIC INC	29-Oct-20	23,516.44	IRWD Check	Negotiable
412890	BROOKFIELD EASTWOOD TRIPLEX LLC	29-Oct-20	66.81	IRWD Check	Negotiable
412891	C WELLS PIPELINE MATERIALS INC	29-Oct-20	2,166.66	IRWD Check	Negotiable
412892	CALIFORNIA BARRICADE RENTAL, INC.	29-Oct-20	14,122.50	IRWD Check	Negotiable
412893	CALIFORNIA SPECIAL DISTRICTS ASSOCIATION	29-Oct-20	7,805.00	IRWD Check	Negotiable
412894	CAPTIVE AUDIENCE MARKETING INC.	29-Oct-20	158.00	IRWD Check	Negotiable

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CHECK OR ELECTRONIC #	SUPPLIERS	PAYMENT DATE	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
412895	CAROLLO ENGINEERS, INC	29-Oct-20	111,208.25	IRWD Check	Negotiable
412896	CHAIDEZ, COLE	29-Oct-20	22.86	IRWD Check	Negotiable
412897	CHEM TECH INTERNATIONAL INC	29-Oct-20	13,917.30	IRWD Check	Negotiable
412898	CHEN, YANG	29-Oct-20	1,119.91	IRWD Check	Negotiable
412899	CHOI, JASMINE	29-Oct-20	70.66	IRWD Check	Negotiable
412900	CITY OF NEWPORT BEACH	29-Oct-20	1,913.31	IRWD Check	Negotiable
412901	CITY OF ORANGE	29-Oct-20	308.61	IRWD Check	Negotiable
412902	CLA-VAL COMPANY	29-Oct-20	13,479.83	IRWD Check	Negotiable
412903	CLARIS STRATEGY INC.	29-Oct-20	2,125.00	IRWD Check	Negotiable
412904	COLONIAL LIFE & ACCIDENT INSURANCE CO.	29-Oct-20	1,103.26	IRWD Check	Negotiable
412905	CONSOLIDATED ELECTRICAL DISTRIBUTORS, INC	29-Oct-20	2,545.59	IRWD Check	Negotiable
412906	CONSTELLATION NEWENERGY, INC.	29-Oct-20	15,131.67	IRWD Check	Negotiable
412907	CORTES, KIMBERLY	29-Oct-20	26.47	IRWD Check	Negotiable
412908	COUNTY OF ORANGE	29-Oct-20	80,189.04	IRWD Check	Negotiable
412909	COX COMMUNICATIONS, INC.	29-Oct-20	3,357.74	IRWD Check	Negotiable
412910	CS-AMSCO	29-Oct-20	12,570.99	IRWD Check	Negotiable
412911	D & G SIGNS	29-Oct-20	9,646.37	IRWD Check	Negotiable
412912	D & H WATER SYSTEMS INC.	29-Oct-20	1,294.74	IRWD Check	Negotiable
412913	DALU, BRIANNA	29-Oct-20	97.50	IRWD Check	Negotiable
412914	DE JESUS, ALEXIS	29-Oct-20	20.41	IRWD Check	Negotiable
412915	DELOS SANTOS, JEDRIC	29-Oct-20	29.67	IRWD Check	Negotiable
412916	DENALI WATER SOLUTIONS LLC	29-Oct-20	16,969.71	IRWD Check	Negotiable
412917	DIRECTV INC	29-Oct-20	285.53	IRWD Check	Negotiable
412918	DUN, INC	29-Oct-20	4,352.25	IRWD Check	Negotiable
412919	EDEN, RAHUL	29-Oct-20	37.67	IRWD Check	Negotiable
412920	EHS INTERNATIONAL,INC	29-Oct-20	1,950.00	IRWD Check	Negotiable
412921	ENVIRONMENTAL EXPRESS INC	29-Oct-20	856.87	IRWD Check	Negotiable
412922	ENVIRONMENTAL SCIENCE ASSOCIATES	29-Oct-20	990.00	IRWD Check	Negotiable
412923	EUROFINS CALSCIENCE, LLC	29-Oct-20	2,787.75	IRWD Check	Negotiable
412924	FEDEX	29-Oct-20	235.33	IRWD Check	Negotiable
412925	FERGUSON ENTERPRISES, LLC	29-Oct-20	2,618.33	IRWD Check	Negotiable
412926	FIDELITY SECURITY LIFE INSURANCE COMPANY	29-Oct-20	879.92	IRWD Check	Negotiable
412927	FIDELITY SECURITY LIFE INSURANCE COMPANY	29-Oct-20	74.88	IRWD Check	Negotiable
412928	FIDELITY SECURITY LIFE INSURANCE COMPANY	29-Oct-20	7,042.35	IRWD Check	Negotiable
412929	FISHER SCIENTIFIC COMPANY LLC	29-Oct-20	7,550.46	IRWD Check	Negotiable
412930	FLUKE ELECTRONICS CORPORATION	29-Oct-20	1,666.31	IRWD Check	Negotiable
412931	FRONTIER CALIFORNIA INC.	29-Oct-20	106.41	IRWD Check	Negotiable
412932	GANAHL LUMBER CO.	29-Oct-20	18,121.35	IRWD Check	Negotiable
412933	GARCIA, RODERICK	29-Oct-20	36.83	IRWD Check	Negotiable
412934	GARZA INDUSTRIES, INC	29-Oct-20	1,448.16	IRWD Check	Negotiable
412935	GEI CONSULTANTS INC	29-Oct-20	1,680.00	IRWD Check	Negotiable
412936	GHONEIM, KAMAL	29-Oct-20	31.86	IRWD Check	Negotiable
412937	GM SAGER CONSTRUCTION CO,INC.	29-Oct-20	34,400.00	IRWD Check	Negotiable
412938	GRAINGER	29-Oct-20	6,226.83	IRWD Check	Negotiable
412939	GREENBERG, SAPHIRA	29-Oct-20	50.39	IRWD Check	Negotiable
412940	HAAKER EQUIPMENT COMPANY	29-Oct-20	326.94	IRWD Check	Negotiable
412941	HACH COMPANY	29-Oct-20	9,466.78	IRWD Check	Negotiable
412942	HAHN, RYAN	29-Oct-20	32.58	IRWD Check	Negotiable
412943	HARRINGTON INDUSTRIAL PLASTICS LLC	29-Oct-20	12,471.72	IRWD Check	Negotiable
412944	HARTFORD LIFE AND ACCIDENT INSURANCE COMPANY	29-Oct-20	72.30	IRWD Check	Negotiable
412945	HARTFORD LIFE AND ACCIDENT INSURANCE COMPANY	29-Oct-20	72.30	IRWD Check	Negotiable
412946	HARTFORD LIFE AND ACCIDENT INSURANCE COMPANY	29-Oct-20	72.30	IRWD Check	Negotiable
412947	HARTFORD LIFE AND ACCIDENT INSURANCE COMPANY	29-Oct-20	108.45	IRWD Check	Negotiable
412948	HARTFORD LIFE AND ACCIDENT INSURANCE COMPANY	29-Oct-20	72.30	IRWD Check	Negotiable
412949	HDR ENGINEERING INC	29-Oct-20	78,352.50	IRWD Check	Negotiable
412950	HELPMATES STAFFING SERVICES	29-Oct-20	14,078.00	IRWD Check	Negotiable
412951	HERNANDEZ, MARIO	29-Oct-20	47.22	IRWD Check	Negotiable
412952	HI-LINE INC	29-Oct-20	586.03	IRWD Check	Negotiable
412953	HOME DEPOT USA INC	29-Oct-20	188.08	IRWD Check	Negotiable
412954	HOPPENRAPH, JANICE	29-Oct-20	53.80	IRWD Check	Negotiable
412955	HSIEH, PETER	29-Oct-20	23.17	IRWD Check	Negotiable
412956	HSU, ANDRE	29-Oct-20	210.23	IRWD Check	Negotiable
412957	HUMANA INSURANCE COMPANY	29-Oct-20	56.60	IRWD Check	Negotiable
412958	IDEXX DISTRIBUTION, INC	29-Oct-20	4,638.54	IRWD Check	Negotiable
412959	IMPERIAL SPRINKLER SUPPLY, INC.	29-Oct-20	109.05	IRWD Check	Negotiable
412960	INDUSTRIAL METAL SUPPLY CO	29-Oct-20	256.66	IRWD Check	Negotiable
412961	IRVINE PACIFIC	29-Oct-20	285.20	IRWD Check	Negotiable
412962	IRVINE PIPE & SUPPLY INC	29-Oct-20	4,092.27	IRWD Check	Negotiable

**IRVINE RANCH WATER DISTRICT
AP DISBURSEMENTS AND VOIDS FOR OCTOBER 2020**

CHECK OR ELECTRONIC #	SUPPLIERS	PAYMENT DATE	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
412963	JACKSON, EDWARD	29-Oct-20	45.05	IRWD Check	Negotiable
412964	JOHN MICHAEL COVAS	29-Oct-20	210.20	IRWD Check	Negotiable
412965	JUST ENERGY SOLUTIONS INC.	29-Oct-20	3,258.47	IRWD Check	Negotiable
412966	K HOVNIANIAN HOMES	29-Oct-20	46.37	IRWD Check	Negotiable
412967	KAESER COMPRESSORS, INC.	29-Oct-20	6,328.91	IRWD Check	Negotiable
412968	KENT DAHLBERG	29-Oct-20	18,695.85	IRWD Check	Negotiable
412969	KEY INFORMATION SYSTEMS, INC.	29-Oct-20	2,050.00	IRWD Check	Negotiable
412970	KIM, WESLEY	29-Oct-20	197.33	IRWD Check	Negotiable
412971	KING, CASEY	29-Oct-20	128.72	IRWD Check	Negotiable
412972	KOU, DI	29-Oct-20	173.23	IRWD Check	Negotiable
412973	KUTAK ROCK LLP	29-Oct-20	17,748.50	IRWD Check	Negotiable
412974	LAMBERTH, MITCHELL	29-Oct-20	34.28	IRWD Check	Negotiable
412975	LENNAR HOMES	29-Oct-20	512.95	IRWD Check	Negotiable
412976	LI, YINGYAN	29-Oct-20	48.25	IRWD Check	Negotiable
412977	LU'S LIGHTHOUSE, INC.	29-Oct-20	994.48	IRWD Check	Negotiable
412978	LU, HONGWEI	29-Oct-20	19.33	IRWD Check	Negotiable
412979	LY, TINA	29-Oct-20	23.97	IRWD Check	Negotiable
412980	MARTENS, MICHAEL	29-Oct-20	50.55	IRWD Check	Negotiable
412981	MASSOUDI, KATHY	29-Oct-20	215.70	IRWD Check	Negotiable
412982	MC MASTER CARR SUPPLY CO	29-Oct-20	1,185.27	IRWD Check	Negotiable
412983	MCMILLIAN, MARAH	29-Oct-20	64.13	IRWD Check	Negotiable
412984	MERRIMAC PETROLEUM, INC.	29-Oct-20	18,403.41	IRWD Check	Negotiable
412985	MOHAMMADI, FERY	29-Oct-20	125.01	IRWD Check	Negotiable
412986	MORAN, JESSE	29-Oct-20	41.39	IRWD Check	Negotiable
412987	MRO ELECTRIC & SUPPLY CO.	29-Oct-20	4,997.00	IRWD Check	Negotiable
412988	MUTUAL PROPANE	29-Oct-20	124.73	IRWD Check	Negotiable
412989	NCH CORPORATION	29-Oct-20	2,178.23	IRWD Check	Negotiable
412990	NEHORA, STEPHANIE	29-Oct-20	17.06	IRWD Check	Negotiable
412991	NEPTUNE TECHNOLOGY GROUP, INC.	29-Oct-20	38,531.40	IRWD Check	Negotiable
412992	NEW PIG CORPORATION	29-Oct-20	7,996.49	IRWD Check	Negotiable
412993	NGUYEN, SAMANTHA	29-Oct-20	97.37	IRWD Check	Negotiable
412994	NIEMANN, STEPHANIE	29-Oct-20	32.70	IRWD Check	Negotiable
412995	NISSANOFF, EDWIN	29-Oct-20	144.98	IRWD Check	Negotiable
412996	NORTHWOOD PARK APTS	29-Oct-20	64.83	IRWD Check	Negotiable
412997	NV5, INC.	29-Oct-20	19,040.00	IRWD Check	Negotiable
412998	OFFICE DEPOT INC	29-Oct-20	303.69	IRWD Check	Negotiable
412999	OLIN CORPORATION	29-Oct-20	26,796.10	IRWD Check	Negotiable
413000	ONEAL, TERRY	29-Oct-20	32.80	IRWD Check	Negotiable
413001	ONESOURCE DISTRIBUTORS LLC	29-Oct-20	940.44	IRWD Check	Negotiable
413002	ORANGE COUNTY AUTO PARTS CO	29-Oct-20	2,228.62	IRWD Check	Negotiable
413003	ORLANDOS, ROBERT	29-Oct-20	54.38	IRWD Check	Negotiable
413004	PACIFIC PARTS & CONTROLS INC	29-Oct-20	514.79	IRWD Check	Negotiable
413005	PALO, ANA ELA	29-Oct-20	43.92	IRWD Check	Negotiable
413006	PARKHOUSE TIRE INC	29-Oct-20	947.39	IRWD Check	Negotiable
413007	PAULUS ENGINEERING INC	29-Oct-20	179,818.06	IRWD Check	Negotiable
413008	PEREZ, MARIO	29-Oct-20	47.99	IRWD Check	Negotiable
413009	PETRUSSE-NORRIS PAINTING, INC.	29-Oct-20	8,202.60	IRWD Check	Negotiable
413010	PORTRAIT CONSTRUCTION INC	29-Oct-20	1,268.98	IRWD Check	Negotiable
413011	POWER CONNECTIONS CAREER SERVICES, INC.	29-Oct-20	9,765.00	IRWD Check	Negotiable
413012	PRAXAIR DISTRIBUTION INC	29-Oct-20	1,122.38	IRWD Check	Negotiable
413013	PRE-PAID LEGAL SERVICES, INC.	29-Oct-20	1,081.42	IRWD Check	Negotiable
413014	PRIDEMARK CONTRACTORS	29-Oct-20	1,900.00	IRWD Check	Negotiable
413015	PRO MOBILE AUTO DETAILING	29-Oct-20	300.00	IRWD Check	Negotiable
413016	PROCARE WORK INJURY CENTER	29-Oct-20	1,432.78	IRWD Check	Negotiable
413017	PTI SAND & GRAVEL INC	29-Oct-20	3,478.78	IRWD Check	Negotiable
413018	PYRO-COMM SYSTEMS INC	29-Oct-20	1,639.26	IRWD Check	Negotiable
413019	QIN, QI	29-Oct-20	129.43	IRWD Check	Negotiable
413020	RAFEZY, FARBOD	29-Oct-20	17.52	IRWD Check	Negotiable
413021	RAM AIR ENGINEERING INC	29-Oct-20	36,575.86	IRWD Check	Negotiable
413022	RCE CONSULTANTS, INC.	29-Oct-20	1,593.25	IRWD Check	Negotiable
413023	RED WING SHOE STORE	29-Oct-20	171.53	IRWD Check	Negotiable
413024	REFRIGERATION SUPPLIES DISTRIBUTOR	29-Oct-20	19.53	IRWD Check	Negotiable
413025	RELIANCE STANDARD LIFE INSURANCE COMPANY	29-Oct-20	30,861.99	IRWD Check	Negotiable
413026	RENTOKIL NORTH AMERICA, INC	29-Oct-20	5,019.00	IRWD Check	Negotiable
413027	RESTEK CORPORATION	29-Oct-20	425.21	IRWD Check	Negotiable
413028	RIBEIRO, THELMA	29-Oct-20	32.81	IRWD Check	Negotiable
413029	SAN CARLO APARTMENTS	29-Oct-20	36.96	IRWD Check	Negotiable
413030	SAN REMO APTS	29-Oct-20	36.46	IRWD Check	Negotiable

**IRVINE RANCH WATER DISTRICT
AP DISBURSEMENTS AND VOIDS FOR OCTOBER 2020**

CHECK OR ELECTRONIC #	SUPPLIERS	PAYMENT DATE	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
413031	SAN RITA RIDGE HOA	29-Oct-20	9,800.86	IRWD Check	Negotiable
413032	SCHINDLER ELEVATOR CORPORATION	29-Oct-20	229.11	IRWD Check	Negotiable
413033	SHARMA, AKUL	29-Oct-20	60.84	IRWD Check	Negotiable
413034	SHELLY, SINDU	29-Oct-20	35.32	IRWD Check	Negotiable
413035	SILSBY, JAMES	29-Oct-20	61.81	IRWD Check	Negotiable
413036	SMITH, DEBRA	29-Oct-20	31.77	IRWD Check	Negotiable
413037	SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT	29-Oct-20	1,672.26	IRWD Check	Negotiable
413038	SOUTHERN CALIFORNIA EDISON COMPANY	29-Oct-20	167,808.86	IRWD Check	Negotiable
413039	SOUTHERN CALIFORNIA SECURITY CENTERS, INC.	29-Oct-20	115.83	IRWD Check	Negotiable
413040	SOUTHERN COUNTIES LUBRICANTS LLC	29-Oct-20	4,574.67	IRWD Check	Negotiable
413041	STACY SUN AND PHUOC TRAN	29-Oct-20	857.54	IRWD Check	Negotiable
413042	STATE INDUSTRIAL PRODUCTS	29-Oct-20	481.53	IRWD Check	Negotiable
413043	STENSKE, LYNN	29-Oct-20	26.66	IRWD Check	Negotiable
413044	SUKLE ADVERTISING INC.	29-Oct-20	60,450.67	IRWD Check	Negotiable
413045	TAN, WINA	29-Oct-20	23.88	IRWD Check	Negotiable
413046	TETRA TECH, INC	29-Oct-20	29,871.00	IRWD Check	Negotiable
413047	THOMPSON INDUSTRIAL SUPPLY	29-Oct-20	7,673.49	IRWD Check	Negotiable
413048	THOMPSON, RALPH	29-Oct-20	29.37	IRWD Check	Negotiable
413049	TIC-RESORT PROPERTIES	29-Oct-20	2,982.33	IRWD Check	Negotiable
413050	TIC-RETAIL PROPERTIES	29-Oct-20	13,494.99	IRWD Check	Negotiable
413051	TIC-SPECTRUM OFFICE	29-Oct-20	1,997.41	IRWD Check	Negotiable
413052	TRIPAC MARKETING INC	29-Oct-20	1,592.38	IRWD Check	Negotiable
413053	TROPICAL PLAZA NURSERY INC	29-Oct-20	1,980.87	IRWD Check	Negotiable
413054	TRUCPARCO	29-Oct-20	51.52	IRWD Check	Negotiable
413055	TRUSSELL TECHNOLOGIES, INC.	29-Oct-20	1,205.00	IRWD Check	Negotiable
413056	UNITED HEALTHCARE INSURANCE COMPANY	29-Oct-20	299.75	IRWD Check	Negotiable
413057	UNITED PARCEL SERVICE INC	29-Oct-20	256.10	IRWD Check	Negotiable
413058	US BANK NAT'L ASSOCIATION NORTH DAKOTA	29-Oct-20	40,619.81	IRWD Check	Negotiable
413059	USA WASTE OF CALIFORNIA, INC.	29-Oct-20	450.00	IRWD Check	Negotiable
413060	UTILITY SYSTEMS SCIENCE & SOFTWARE INC.	29-Oct-20	2,030.00	IRWD Check	Negotiable
413061	VELASQUEZ, JOANN	29-Oct-20	96.51	IRWD Check	Negotiable
413062	VERIZON WIRELESS SERVICES LLC	29-Oct-20	13,193.53	IRWD Check	Negotiable
413063	WALTERS WHOLESALE ELECTRIC	29-Oct-20	317.25	IRWD Check	Negotiable
413064	WALTMAN, DOUGLAS	29-Oct-20	27.12	IRWD Check	Negotiable
413065	WANG, LIN	29-Oct-20	15.17	IRWD Check	Negotiable
413066	WARE MALCOMB	29-Oct-20	3,248.33	IRWD Check	Negotiable
413067	WATER TREATMENT CHEMICALS INC	29-Oct-20	12,163.84	IRWD Check	Negotiable
413068	WATERBORNE, INC	29-Oct-20	525.00	IRWD Check	Negotiable
413069	WATERLINE TECHNOLOGIES INC	29-Oct-20	3,740.00	IRWD Check	Negotiable
413070	WATKINS, MARGARET	29-Oct-20	72.61	IRWD Check	Negotiable
413071	WAXIE'S ENTERPRISES, INC	29-Oct-20	920.96	IRWD Check	Negotiable
413072	WECK LABORATORIES INC	29-Oct-20	1,570.00	IRWD Check	Negotiable
413073	WEI, LILY	29-Oct-20	51.47	IRWD Check	Negotiable
413074	WEST COAST SAFETY SUPPLY INC	29-Oct-20	620.37	IRWD Check	Negotiable
413075	WIKLEM, BRIAN	29-Oct-20	34.60	IRWD Check	Negotiable
413076	WILLIAM LYON HOMES, INC.	29-Oct-20	102.82	IRWD Check	Negotiable
413077	WILLIAMS, JOHN	29-Oct-20	34.20	IRWD Check	Negotiable
413078	WORKFORCE SAFETY LLC	29-Oct-20	6,000.00	IRWD Check	Negotiable
413079	YANG, FENGBO	29-Oct-20	19.36	IRWD Check	Negotiable
413080	YANG, RUNING	29-Oct-20	15.90	IRWD Check	Negotiable
413081	YOON KIM AND WOOK CHUNG	29-Oct-20	28.91	IRWD Check	Negotiable
413082	YORKE ENGINEERING, LLC	29-Oct-20	1,297.50	IRWD Check	Negotiable
413083	YOUNG, JOANN	29-Oct-20	65.87	IRWD Check	Negotiable
413084	ZESSMAN TAPIERO, NAAMA	29-Oct-20	52.28	IRWD Check	Negotiable
413085	ZHANG, MOLING	29-Oct-20	37.85	IRWD Check	Negotiable
413086	ZHANG, QIANG	29-Oct-20	31.77	IRWD Check	Negotiable
SUB-TOTAL CHECK DISBURSEMENTS			12,601,894.66		
14002	CHARD SNYDER & ASSOCIATES, INC.	5-Oct-20	9,862.36	IRWD Wire	Negotiable
14003	CHARD SNYDER & ASSOCIATES, INC.	5-Oct-20	1,952.87	IRWD Wire	Negotiable
14004	YORK INSURANCE SERVICES GROUP INC - CA	6-Oct-20	9,958.56	IRWD Wire	Negotiable
14005	U.S. BANK NATIONAL ASSOCIATION	6-Oct-20	71,136.86	IRWD Wire	Negotiable
14006	BANK OF NEW YORK MELLON TRUST COMPANY NA	6-Oct-20	3,002,498.65	IRWD Wire	Negotiable
14007	U.S. BANK NATIONAL ASSOCIATION	6-Oct-20	2,503,035.51	IRWD Wire	Negotiable
14008	BANK OF AMERICA	6-Oct-20	2,502,780.09	IRWD Wire	Negotiable
14009	BANK OF AMERICA	7-Oct-20	43,523.00	IRWD Wire	Negotiable
14010	BANK OF AMERICA	8-Oct-20	0.01	IRWD Wire	Negotiable

**IRVINE RANCH WATER DISTRICT
AP DISBURSEMENTS AND VOIDS FOR OCTOBER 2020**

CHECK OR ELECTRONIC #	SUPPLIERS	PAYMENT DATE	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
14011	CALPERS	8-Oct-20	546,037.75	IRWD Wire	Negotiable
14012	CALPERS	8-Oct-20	2,952.19	IRWD Wire	Negotiable
14013	CHARD SNYDER & ASSOCIATES, INC.	8-Oct-20	1,509.60	IRWD Wire	Negotiable
14014	INTERNAL REVENUE SERVICE	8-Oct-20	223,073.64	IRWD Wire	Negotiable
14015	FRANCHISE TAX BOARD	8-Oct-20	68,023.08	IRWD Wire	Negotiable
14016	EMPLOYMENT DEVELOPMENT DEPARTMENT	8-Oct-20	13,380.58	IRWD Wire	Negotiable
14017	CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES	8-Oct-20	2,156.63	IRWD Wire	Negotiable
14018	GREAT-WEST LIFE & ANNUITY INSURANCE COMPANY	8-Oct-20	164,591.07	IRWD Wire	Negotiable
14019	U.S. BANK NATIONAL ASSOCIATION	8-Oct-20	1,591.67	IRWD Wire	Negotiable
14020	SUMITOMO MITSUI BANKING CORPORATION	8-Oct-20	3,184.42	IRWD Wire	Negotiable
14021	CALPERS	8-Oct-20	249,156.06	IRWD Wire	Negotiable
14022	YORK INSURANCE SERVICES GROUP INC - CA	13-Oct-20	1,910.94	IRWD Wire	Negotiable
14023	CHARD SNYDER & ASSOCIATES, INC.	13-Oct-20	7,106.58	IRWD Wire	Negotiable
14024	CHARD SNYDER & ASSOCIATES, INC.	13-Oct-20	17,359.13	IRWD Wire	Negotiable
14025	WELLS FARGO BANK, N.A.	14-Oct-20	6,202.76	IRWD Wire	Negotiable
14026	FILANC-BALFOUR BEATTY JV	19-Oct-20	82,678.05	IRWD Wire	Negotiable
14027	CHARD SNYDER & ASSOCIATES, INC.	19-Oct-20	1,976.77	IRWD Wire	Negotiable
14028	CHARD SNYDER & ASSOCIATES, INC.	19-Oct-20	2,085.69	IRWD Wire	Negotiable
14029	CALPERS	19-Oct-20	406.96	IRWD Wire	Negotiable
14030	CALPERS	19-Oct-20	892.12	IRWD Wire	Negotiable
14031	YORK INSURANCE SERVICES GROUP INC - CA	20-Oct-20	3,871.24	IRWD Wire	Negotiable
14032	MUNICIPAL WATER DISTRICT OF ORANGE COUNTY	20-Oct-20	1,393,521.70	IRWD Wire	Negotiable
14033	SUMITOMO MITSUI BANKING CORPORATION	20-Oct-20	37,760.91	IRWD Wire	Negotiable
14034	JANGA, VENKATA	21-Oct-20	20.42	IRWD Wire	Negotiable
14035	CZAYKOWSKA, KAROLINA	21-Oct-20	26.44	IRWD Wire	Negotiable
14036	GUO, ZEJIN	21-Oct-20	42.98	IRWD Wire	Negotiable
14037	INTERNAL REVENUE SERVICE	22-Oct-20	230,259.91	IRWD Wire	Negotiable
14038	FRANCHISE TAX BOARD	22-Oct-20	70,718.76	IRWD Wire	Negotiable
14039	EMPLOYMENT DEVELOPMENT DEPARTMENT	22-Oct-20	13,165.06	IRWD Wire	Negotiable
14040	CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES	22-Oct-20	2,156.63	IRWD Wire	Negotiable
14041	GREAT-WEST LIFE & ANNUITY INSURANCE COMPANY	22-Oct-20	162,434.61	IRWD Wire	Negotiable
14042	CHARD SNYDER & ASSOCIATES, INC.	26-Oct-20	4,157.02	IRWD Wire	Negotiable
14043	CHARD SNYDER & ASSOCIATES, INC.	26-Oct-20	3,867.82	IRWD Wire	Negotiable
14044	YORK INSURANCE SERVICES GROUP INC - CA	27-Oct-20	6,410.05	IRWD Wire	Negotiable
14045	CALPERS	28-Oct-20	251,328.73	IRWD Wire	Negotiable
14046	U.S. BANK NATIONAL ASSOCIATION	29-Oct-20	5,794,250.00	IRWD Wire	Negotiable
14047	BANK OF NEW YORK MELLON TRUST COMPANY NA	29-Oct-20	49,129.10	IRWD Wire	Negotiable
14048	BANK OF NEW YORK MELLON TRUST COMPANY NA	29-Oct-20	347.22	IRWD Wire	Negotiable
SUB-TOTAL ELECTRONIC DISBURSEMENTS			17,564,492.20		
SUB-TOTAL AP CHECK AND ELECTRONIC DISBURSEMENTS			30,166,386.86		
412223	UNITED AMERICAN PROPERTIES INC	1-Oct-20	66.38	IRWD Check	Voided
412476	WILSON, RICHARD	8-Oct-20	55.15	IRWD Check	Voided
412629	PROCARE WORK INJURY CENTER	15-Oct-20	1,235.00	IRWD Check	Voided
412650	STATION ELECTRIC	15-Oct-20	1,654.43	IRWD Check	Voided
SUB-TOTAL CHECK AND ELECTRONIC ISSUED AND VOIDED IN OCT 2020			3,010.96		
TOTAL AP DISBURSEMENTS AND VOIDS FOR OCT 2020			30,169,397.82		

Exhibit "E"

MONTHLY SUMMARY OF PAYROLL ACH PAYMENTS

**October
2020**

	AMOUNT	VENDOR	PURPOSE
10/9/2020	1,059,712.46	BANK OF AMERICA	ACH Payments for Payroll
10/23/2020	1,094,475.83	BANK OF AMERICA	ACH Payments for Payroll
	<u>\$2,154,188.29</u>		

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Exhibit "F"

IRWD Gov Code 53065.5 Disclosure Report

Payment or Reimbursements for Individual charges of \$100 or more per transaction for services or product received.

01-OCT-20 to 31-OCT-20

NAME	CHECK NO.	CHECK DATE	AMOUNT	ITEM DESCRIPTION	EXPENSE JUSTIFICATION
Bertsch, Jeff	412677	22-Oct-20	152.76	Other(Misc)	Farewell lunch for Gina Hufana - Five people attended
Bill, Cody	412241	8-Oct-20	283.00	Certification Renewal	CWEA Collections Systems Maintenance Grade I
Flores, Jorge	412486	15-Oct-20	283.00	Certification Renewal	CWEA Collections Systems Maintenance Grade I
Guzman, Juan	412078	1-Oct-20	120.00	Certification Renewal	SWRCB Water Distribution Operator Grade I
Moeder, Jacob	412079	1-Oct-20	332.00	Membership Renewal	WEF membership
Nelson, Mark	412487	15-Oct-20	105.00	Certification Renewal	SWRCB Water Treatment Operator Grade IV
Nelson, Mark	412487	15-Oct-20	164.53	Certification Renewal	SWRCB CEU Course renewal
Perez, Cesar	412246	8-Oct-20	192.00	Membership Renewal	CWEA membership
Reynoso, Pio	412247	8-Oct-20	101.00	Certification Renewal	CWEA Mechanical Technologist Grade III
Saldana Rodriguez, Cristina	412488	15-Oct-20	125.00	Other(Misc)	Safety Shoe Allowance
Total Amount:			\$ 1,858.29		

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November 23, 2020

Prepared by: C. Spangenberg / M. Cortez

Submitted by: K. Burton

Approved by: Paul A. Cook



ACTION CALENDAR

REHABILITATION OF DYER ROAD WELLFIELD WELLS 1, 11, AND 13 CONSTRUCTION AWARD

SUMMARY:

Dyer Road Wellfield (DRWF) Wells 1, 11 and 13 have experienced biological and inorganic fouling as well as reduction in production and specific capacity and need rehabilitation. Staff recommends the Board authorize the General Manager to execute a construction contract with Best Drilling and Pump, Inc. in the amount of \$1,698,100 for the rehabilitation of DRWF Wells 1, 11 and 13.

BACKGROUND:

Staff recently updated the well rehabilitation priority list and DRWF Wells 1, 11 and 13 are the next set of wells requiring rehabilitation in order to improve their hydraulic performance and to remove foulants and scale from the wells. The location of the wells, which are all in Santa Ana, is shown in Exhibit "A".

DRWF Well 1 was constructed in 1979 with mild steel casing and louvers. Staff was unable to complete a video of the well because the sounding tube, which provides access and was connected to the casing, has been plugged for many years. Given the age of the well, the casing/louver properties, and because the well has not been rehabilitated in nearly 20 years requires, rehabilitation is required. The budget for DRWF Well 1 includes an option to install a stainless-steel liner in the event the casing is found to have lost its physical integrity. In addition, a new discharge header will be fabricated that includes a port for installation of a transducer that will allow staff to monitor water levels and accurately determine the well's performance.

DRWF Well 11 was constructed in 1986 with mild steel casing material and wire-wrapped, stainless steel Johnson screens. While the specific capacity and production levels have not dropped dramatically, a recent video of the well indicated heavy encrustation of iron related and slime bacteria at various depths within the screened intervals within the well. The well was last rehabilitated over 10 years ago.

DRWF Well 13 was constructed in 1984 with copper bearing steel as the casing material and wire wrapped, stainless steel Johnson screens. The specific capacity of Well 13 has fluctuated dramatically throughout the past several years due to irregular and reduced pumping periods. Part of the rehabilitation efforts will be to determine the extent and location of this contaminant located within the well screens. A recent video of the well indicates that the well has moderate scaling and fouling in the screened intervals of the well.

Construction Award:

Richard C. Slade & Associates completed the design for the rehabilitation of DRWF Wells 1, 11 and 13 in October 2020, and the project was advertised for construction to a select bidders list of six contractors. The bid opening was held on November 10, 2020 with one bid received. Best Drilling and Pump, Inc. is the apparent low bidder with a bid amount of \$1,698,100, which was lower than the engineer's estimate of \$1,791,300. In the previous bid for well rehabilitation services, Best Drilling and Pump, Inc. was also the lone bidder, and is near completion of rehabilitating DRWF Wells 5, 14, and 16.

Although IRWD received only one bid, the majority of the line item bid unit prices and costs are consistent with bids from previous rehabilitation projects and the engineer's estimate. The bid results are shown in Exhibit "B".

FISCAL IMPACTS:

Rehabilitation of DRWF Wells 1, 11 and 13, Projects 07092, 07088, and 10098, are included in the FY 2020-21 Capital Budget and sufficient funds exist to complete the construction phase of the projects.

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 (NOE) was filed with the Orange County Clerk Recorder on August 31, 2020.

COMMITTEE STATUS:

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

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE A CONSTRUCTION CONTRACT WITH BEST DRILLING AND PUMP, INC. IN THE AMOUNT OF \$1,698,100 FOR REHABILITATION OF DYER ROAD WELLFIELD WELLS 1, 11 AND 13, PROJECTS 07092, 07088 AND 10098.

LIST OF EXHIBITS:

Exhibit "A" – Location Map

Exhibit "B" – Bid Results

EXHIBIT "A"

Well 13



Segerstrom Ave.

Fairview Road

Rait Street

Well 1



Well 11



Dyer Road Well Field Well Nos 1, 11, and 13 Location Map

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Bid Results**Bidder Details**

Vendor Name Best Drilling and Pump, Inc.
Address 1640 Pellisier Rd.
 Colton, CA 92324
 United States

Respondee Chris Brown
Respondee Title Project Manager
Phone 909-649-2329 Ext.
Email cbrown@bestdrillingandpump.com

Vendor Type CADIR
License # 826672
CADIR 1000001067

Bid Detail

Bid Format Electronic
Submitted November 10, 2020 1:47:55 PM (Pacific)

Delivery Method
Bid Responsive

Bid Status Submitted
Confirmation # 233803
Ranking 0

Respondee Comment**Buyer Comment****Attachments**

File Title	File Name	File Type
IRWD Bid docs Best Drilling 11-10-2020	IRWD wells 1 11 and 13 BDPI 11-10-2020.pdf	Bid Form

Line Items

Type	Item Code	UOM	Qty	Unit Price	Line Total	Comment
BASE BID ITEMS - SCHEDULE A (WELL NO. 1)						
1	Mobilization/Demobilization of pump rig, equipment and accessories. Prepare contract documents and other preliminary work and prepare site as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02480	LS	1	\$70,000.00	\$70,000.00	
2	Disconnect motor from electrical system, remove discharge header, pipe, motor column pipe, vertical turbine pump, couplings, electrical cable and all other appurtenances and sound well. Deliver pump and motor to DISTRICT MWRP Operations Center as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02482	LS	1	\$10,500.00	\$10,500.00	
3	Clear the water column and perform an initial color video survey of the well as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02496.	LS	1	\$1,200.00	\$1,200.00	
4	Brush well casing with a nylon wire brush. Conduct initial biocleaning of the casing walls by injecting hydrogen peroxide into the well during brushing and bail sediment fill following brushing, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02483.	HRS	24	\$375.00	\$9,000.00	

Bid Results

Type	Item Code	UOM	Qty	Unit Price	Line Total	Comment
5	Perform Casing Inspection Thickness Measurement (CITM) survey of full length of well casing, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02486.	LS	1	\$7,500.00	\$7,500.00	
6	Conduct well redevelopment using "air-jetting" methods, via the AirBurst® or BoreBlast® methods as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02491.	LS	1	\$19,500.00	\$19,500.00	
7	Perform chemical treatment of well water using HercChemTech chemical treatment plan, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02492.	LS	1	\$90,000.00	\$90,000.00	
8	Perform mechanical redevelopment (airlifting and swabbing) of the well, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02493.	HRS	60	\$450.00	\$27,000.00	
9	Conduct treatment and discharge of mechanical and/or pumping redevelopment fluids (as applicable) via neutralization and blending and disposal of solids/sludges per specifications, including treatment, sampling, analysis, and reporting for NPDES compliance, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02494.	LS	1	\$20,000.00	\$20,000.00	
10	Clear water column and provide up to three downwell interim, clear-viewing, color video surveys of well casing, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02496.	EA	3	\$1,200.00	\$3,600.00	
11	Mobilize, install, maintain, remove, and demobilize a diesel or gasoline engine, temporary test pump, equipment, and other appurtenances/accessories as necessary, and in accordance with the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02497.	LS	1	\$16,500.00	\$16,500.00	
12	Perform pumping redevelopment of the well including monitoring of water levels, pumping rates, and sand content, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02498.	HRS	80	\$450.00	\$36,000.00	
13	Perform a 12-hour (maximum) step drawdown test and a minimum 24-hour (maximum 48-hour) constant rate pumping test, including monitoring of water levels, pumping rates, and sand content, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02499.	HRS	60	\$450.00	\$27,000.00	
14	Perform a flowmeter (spinner) survey under dynamic (pumping) conditions throughout the perforated sections of the well, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02500.	LS	1	\$3,750.00	\$3,750.00	
15	Conduct depth-specific groundwater sampling at three specific depth intervals. Collection, sampling, and analysis are to be performed by the DISTRICT, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02501.	EA	3	\$400.00	\$1,200.00	
16	Clear water column and provide a final downwell color video survey of the well casing, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02503.	LS	1	\$1,200.00	\$1,200.00	

Bid Results

Type	Item Code	UOM	Qty	Unit Price	Line Total	Comment
17	Conduct a static spinner survey of the well under non-pumping conditions. as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02504.	LS	1	\$3,750.00	\$3,750.00	
18	Furnish new column pipe, couplings, line shaft, adaptors, and all other items necessary to complete pump installation, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 11290.	LS	1	\$60,500.00	\$60,500.00	
19	Furnish & install a new fabricated discharge head with a threaded nipple (1-inch diameter), sounding port, and 1-inch Schedule 80 pipe to DISTRICT-specified depth that mates with the existing motor/pump, column pipe, sole plate, and discharge pipe flange as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 11290.	LS	1	\$13,500.00	\$13,500.00	
20	Pickup vertical turbine pump and motor from DISTRICT and re-install pump/motor and all appurtenances to original depth or to an alternative depth, as directed, and as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 11290.	LS	1	\$12,500.00	\$12,500.00	
21	Allowance for additional costs for parts and/or materials during re-installation of permanent pump, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 11290.	LS	1	\$2,500.00	\$2,500.00	
22	Re-establish wiring and connection of permanent pump and motor into DISTRICT electrical system, in the presence of a DISTRICT electrician and conduct testing of the permanent pump for a period of three (3) consecutive days, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 11290.	LS	1	\$5,000.00	\$5,000.00	
23	Provide for vibration monitoring and testing of the permanent pump (initial), as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 11290.	LS	1	\$3,500.00	\$3,500.00	
24	Conduct well disinfection and clean-up site), as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02505.	LS	1	\$3,600.00	\$3,600.00	
25	Standby time with Active rig and crew as directed by DISTRICT, as specified in the Technical Specifications Section 02506.	HRS	16	\$50.00	\$800.00	
26	Standby time with Inactive rig and crew as directed by DISTRICT, as specified in the Technical Specifications Section 02506.	HRS	16	\$50.00	\$800.00	
27	Restore site and proximity to pre-existing conditions, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02507.	LS	1	\$5,000.00	\$5,000.00	
28	Conduct a (optional) caliper survey to the total depth of the well, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02487.	LS	1	\$1,600.00	\$1,600.00	
29	Perform a (optional) plumbness & alignment survey to the total depth of the well, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02488.	LS	1	\$2,700.00	\$2,700.00	

Bid Results

Type	Item Code	UOM	Qty	Unit Price	Line Total	Comment
30	Install a (optional) full casing liner and gravel pack envelope inside the existing well casing, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02490.					
		LS	1	\$300,000.00	\$300,000.00	
Subtotal					\$759,700.00	
BASE BID ITEMS - SCHEDULE B (WELL NO. 11)						
31	Mobilization/Demobilization of pump rig, equipment and accessories. Prepare contract documents and other preliminary work and prepare site as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02480.					
		LS	1	\$65,000.00	\$65,000.00	
32	Disconnect motor from electrical system, remove discharge header, pipe, motor column pipe, vertical turbine pump, couplings, electrical cable and all other appurtenances and sound well. Deliver pump, motor, and discharge header to DISTRICT MWRP Operations Center as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02482.					
		LS	1	\$10,500.00	\$10,500.00	
33	Clear the water column and perform an initial color video survey of the well as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02496.					
		LS	1	\$1,200.00	\$1,200.00	
34	Brush well casing with a nylon wire brush. Conduct initial biocleaning of the casing walls by injecting hydrogen peroxide into the well during brushing and bail sediment fill following brushing, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02483.					
		HRS	24	\$375.00	\$9,000.00	
35	Install cement plug in bottom of well up to a depth of 860 ft bgs with a glass bottom of dump bailer, or similar device, to entomb pump strainer, as specified in Brush well casing with a nylon wire brush. Conduct initial biocleaning of the casing walls by injecting hydrogen peroxide into the well during brushing and bail sediment following brushing as specified in the General Requirements Section 01840, the Special Provisions Section 00200.					
		LS	1	\$10,000.00	\$10,000.00	
36	Perform Casing Inspection Thickness Measurement (CITM) survey of the low carbon steel blank sections of well casing, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02486.					
		LS	1	\$7,500.00	\$7,500.00	
37	Conduct well redevelopment using "air-jetting" methods, via the AirBurst® or BoreBlast® methods as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02491.					
		LS	1	\$19,500.00	\$19,500.00	
38	Perform chemical treatment of well water using HercChemTech chemical treatment plan, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02492.					
		LS	1	\$106,000.00	\$106,000.00	
39	Perform mechanical redevelopment (airlifting and swabbing) of the well, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02493.					
		HRS	60	\$450.00	\$27,000.00	
40	Conduct treatment and discharge of mechanical and/or pumping redevelopment fluids (as applicable) via neutralization and blending and disposal of solids/sludges per specifications, including treatment, sampling, analysis, and reporting for NPDES compliance, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02494.					
		LS	1	\$30,000.00	\$30,000.00	

Bid Results

Type	Item Code	UOM	Qty	Unit Price	Line Total	Comment
41	Clear water column and provide up to three downwell interim, clear-viewing, color video surveys of well casing, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02496.	EA	3	\$1,200.00	\$3,600.00	
42	Mobilize, install, maintain, remove, and demobilize a diesel or gasoline engine, temporary test pump, equipment, and other appurtenances/accessories as necessary, and in accordance with the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02497.	LS	1	\$16,500.00	\$16,500.00	
43	Perform pumping redevelopment of the well including monitoring of water levels, pumping rates, and sand content, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02498.	HRS	80	\$450.00	\$36,000.00	
44	Perform a 12-hour (maximum) step drawdown test and a minimum 8-hour (maximum 16-hour) constant rate pumping test, including monitoring of water levels, pumping rates, and sand content, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02499.	HRS	28	\$450.00	\$12,600.00	
45	Perform a flowmeter (spinner) survey under dynamic (pumping) conditions throughout the perforated sections of the well, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02500.	LS	1	\$3,750.00	\$3,750.00	
46	Clear water column and provide a final downwell color video survey of the well casing, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02503.	LS	1	\$1,200.00	\$1,200.00	
47	Conduct a static spinner survey of the well under non-pumping conditions, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02504.	LS	1	\$3,750.00	\$3,750.00	
48	Furnish new column pipe, couplings, line shaft, adaptors, pump bowls and all other items necessary to complete pump installation, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 11290.	LS	1	\$60,500.00	\$60,500.00	
49	Pickup vertical turbine pump, motor and discharge header from DISTRICT and re-install pump/motor and all appurtenances to original depth or to an alternative depth, as directed, and as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 11290.	LS	1	\$12,500.00	\$12,500.00	
50	Allowance for additional costs for parts and/or materials during re-installation of permanent pump, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 11290.	LS	1	\$2,500.00	\$2,500.00	
51	Re-establish wiring and connection of permanent pump and motor into DISTRICT electrical system, in the presence of a DISTRICT electrician and conduct testing of the permanent pump for a period of three (3) consecutive days, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 11290.	LS	1	\$5,000.00	\$5,000.00	
52	Provide for vibration monitoring and testing of the permanent pump (initial), as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 11290.	LS	1	\$3,500.00	\$3,500.00	

Bid Results

Type	Item Code	UOM	Qty	Unit Price	Line Total	Comment
53	Conduct well disinfection and clean-up site), as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02505.	LS	1	\$3,600.00	\$3,600.00	
54	Standby time with Active rig and crew as directed by DISTRICT, as specified in the Technical Specifications Section 02506.	HRS	16	\$50.00	\$800.00	
55	Standby time with Inactive rig and crew as directed by DISTRICT, as specified in the Technical Specifications Section 02506.	HRS	16	\$50.00	\$800.00	
56	Restore site and proximity to pre-existing conditions, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02507.	LS	1	\$5,000.00	\$5,000.00	
Subtotal					\$457,300.00	
BASE BID ITEMS - SCHEDULE C (WELL NO. 13)						
57	Mobilization/Demobilization of pump rig, equipment and accessories. Prepare contract documents and other preliminary work and prepare site as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02480.	LS	1	\$45,000.00	\$45,000.00	
58	Disconnect motor from electrical system, remove discharge header, pipe, motor column pipe, vertical turbine pump, couplings, electrical cable and all other appurtenances and sound well. Deliver pump, motor, and discharge header to DISTRICT MWRP Operations Center as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02482.	LS	1	\$10,500.00	\$10,500.00	
59	Clear the water column and perform an initial color video survey of the well as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02496.	LS	1	\$1,200.00	\$1,200.00	
60	Brush well casing with a nylon wire brush. Conduct initial biocleaning of the casing walls by injecting hydrogen peroxide into the well during brushing and bail sediment fill following brushing, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02483.	HRS	24	\$375.00	\$9,000.00	
61	Perform Casing Inspection Thickness Measurement (CITM) survey of the low carbon steel blank sections of well casing, . as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02486.	LS	1	\$7,500.00	\$7,500.00	
62	Conduct well redevelopment using "air-jetting" methods, via the AirBurst® or BoreBlast® methods, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02491.	LS	1	\$19,500.00	\$19,500.00	
63	Perform chemical treatment of well water using HercChemTech chemical treatment plan, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02492.	EA	1	\$106,000.00	\$106,000.00	
64	Perform mechanical redevelopment (airlifting and swabbing) of the well, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02493.	HRS	60	\$450.00	\$27,000.00	

Bid Results

Type	Item Code	UOM	Qty	Unit Price	Line Total	Comment
65	Conduct treatment and discharge of mechanical and/or pumping redevelopment fluids (as applicable) via neutralization and blending and disposal of solids/sludges per specifications, including treatment, sampling, analysis, and reporting for NPDES compliance, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02494.	LS	1	\$20,000.00	\$20,000.00	
66	Clear water column and provide up to three downwell interim, clear-viewing, color video surveys of well casing, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02496.	EA	3	\$1,200.00	\$3,600.00	
67	Mobilize, install, maintain, remove, and demobilize a diesel or gasoline engine, temporary test pump, equipment, and other appurtenances/accessories as necessary, and in accordance with the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02497.	LS	1	\$16,500.00	\$16,500.00	
68	Perform pumping redevelopment of the well including monitoring of water levels, pumping rates, and sand content, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02498.	HRS	80	\$450.00	\$36,000.00	
69	Perform a 12-hour (maximum) step drawdown test and a minimum 24-hour (maximum 48-hour) constant rate pumping test, including monitoring of water levels, pumping rates, and sand content, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02499.	HRS	60	\$450.00	\$27,000.00	
70	Perform a flowmeter (spinner) survey under dynamic (pumping) conditions throughout the perforated sections of the well, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02500.	LS	1	\$3,750.00	\$3,750.00	
71	Conduct depth-specific groundwater sampling at six specific depth intervals. Collection, sampling, and analysis are to be performed by the DISTRICT, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02501.	EA	6	\$400.00	\$2,400.00	
72	Clear water column and provide a final downwell color video survey of the well casing, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02503.	LS	1	\$1,200.00	\$1,200.00	
73	Conduct a static spinner survey of the well under non-pumping conditions, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02504.	LS	1	\$3,750.00	\$3,750.00	
74	Furnish new column pipe, couplings, line shaft, adaptors, and all other items necessary to complete pump installation, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 11290.	LS	1	\$60,500.00	\$60,500.00	
75	Pickup vertical turbine pump, motor and discharge header from DISTRICT and re-install pump/motor and all appurtenances to original depth or to an alternative depth, as directed, and as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 11290.	LS	1	\$12,500.00	\$12,500.00	
76	Allowance for additional costs for parts and/or materials during re-installation of permanent pump, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 11290.	LS	1	\$2,500.00	\$2,500.00	

Bid Results

Type	Item Code	UOM	Qty	Unit Price	Line Total	Comment
77	Re-establish wiring and connection of permanent pump and motor into DISTRICT electrical system, in the presence of a DISTRICT electrician and conduct testing of the permanent pump for a period of three (3) consecutive days, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 11290.	LS	1	\$5,000.00	\$5,000.00	
78	Provide for vibration monitoring and testing of the permanent pump (initial), , as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 11290.	LS	1	\$3,500.00	\$3,500.00	
79	Conduct well disinfection and clean-up site), as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02505.	LS	1	\$3,600.00	\$3,600.00	
80	Standby time with Active rig and crew as directed by DISTRICT, as specified in the Technical Specifications Section 02506.	HRS	16	\$50.00	\$800.00	
81	Standby time with Inactive rig and crew as directed by DISTRICT, as specified in the Technical Specifications Section 02506.	HRS	16	\$50.00	\$800.00	
82	Restore site and proximity to pre-existing conditions, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02507.	LS	1	\$5,000.00	\$5,000.00	
83	(Optional) Install a packer at a depth of 740 ft bgs in the well, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02502.	LS	1	\$20,000.00	\$20,000.00	
84	(Optional) Perform a 12-hour (maximum) step drawdown test and a minimum 24-hour (maximum 48-hour) constant rate pumping test, including monitoring of water levels, pumping rates, and sand content, as specified in the General Requirements Section 01840, the Special Provisions Section 00200 & the Technical Specifications Section 02502.	HRS	60	\$450.00	\$27,000.00	
					Subtotal	\$481,100.00
ADDITIVE AND DEDUCTIVE BID ITEMS						
85	ADDITION (+) OR DEDUCTION (-)	LS	1	0	0	
					Subtotal	0
					Total	\$1,698,100.00

Subcontractors

Name & Address	Description	License Num	CADIR	Amount	Type
General Pump Company, Inc. 159 N Acacia St. San Dimas, CA 91730 United States	Air Burst	496765	1000002769	\$36,000.00	CADIR

November 23, 2020

Prepared by: J. Moeder / R. Mori

Submitted by: K. Burton

Approved by: Paul A. Cook



ACTION CALENDAR

DAM SAFETY PROGRAM CONSULTANT SELECTION

SUMMARY:

IRWD's current Dam Safety Program (DSP) includes routine monitoring, inspection, and reporting activities for Rattlesnake, San Joaquin, Sand Canyon, Santiago Creek, and Syphon dams. IRWD contracted with HDR to review and enhance the District's current DSP and to integrate the process of Risk-informed Decision Making (RIDM) into the overall program. The DSP will proceed in two phases. Phase 1 focused on data-gathering and establishment of the initial DSP framework. Phase 2 will focus on risk analyses, risk evaluation, and completion of the final DSP framework. HDR completed the first phase; staff recommends proceeding with Phase 2. Staff recommends the Board authorize the General Manager to execute a Professional Services Agreement in the amount of \$389,200 with HDR for the second phase of the DSP.

BACKGROUND:

IRWD owns and operates five jurisdictional dams that were constructed between 1933 and 1966. Traditionally, dam safety assessments, which are integral components of any DSP, utilize a standards-based approach (SBA) that follows established rules and guidelines for design events and loads, structural capacities, and defensive design measures. Historically, the SBA to dam safety has proven to be good practice, but that approach omits consideration of other dam safety elements such as human factors and operational issues that could potentially expose dam owners to increased levels of risk.

Another approach to dam safety that has primarily been used at the federal level is RIDM, which is a more rigorous, systematic, and thorough process to dam safety that focuses on identifying and reducing risks. In the late 1990s, the Bureau of Reclamation was the first agency to incorporate RIDM into its dam safety program. Since that time, RIDM is now used by several dam regulators and dam owners throughout the United States. Earlier this year, the Division of Safety of Dams (DSOD) announced to California dam owners that it will be integrating RIDM into its regulatory oversight of dams under its jurisdiction.

Consultant Selection Process:

In June 2020, IRWD contracted with HDR to review and enhance the District's current DSP and to integrate the RIDM process into the overall program. HDR is an industry leader in dam safety, and in particular, a leader in RIDM processes and approaches. Staff is executing the project in two phases with the first phase focused on data gathering and establishment of the initial DSP framework, and the second phase focused on risk analyses, risk evaluation, and completion of the final DSP framework. HDR has completed the first phase, and staff is prepared to proceed with the second phase. The scope of work for the second phase is provided as Exhibit "A". The PowerPoint presentation is included as Exhibit "B".

FISCAL IMPACTS:

Projects 10452 and 10456 for Capital Planning Support are included in the FY 2020-2021 Capital Budget. Project 10452 will fund 20% of the project through Potable Water Regional Split, and Project 10456 will fund 80% of the project through Recycled Water Regional Split. The current approved budgets are sufficient to fund the project.

ENVIRONMENTAL COMPLIANCE:

This project is not subject to the California Environmental Quality Act (CEQA) as authorized under the California Code of Regulations, Title 14, Chapter 3, Section 15061 (b) (3), in that CEQA applies only to projects that may result in a direct physical change in the environment or reasonably foreseeable indirect physical change in the environment.

COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on November 17, 2020.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE A PROFESSIONAL SERVICES AGREEMENT IN THE AMOUNT OF \$389,200 WITH HDR FOR THE SECOND PHASE OF THE DAM SAFETY PROGRAM, PROJECTS 10452 AND 10456.

LIST OF EXHIBITS:

Exhibit "A" – HDR Scope of Work

Exhibit "B" – Dam Safety Program Consultant Selection Presentation



November 5, 2020

Mr. Jacob Moeder
Project Manager
Irvine Ranch Water District
15600 Sand Canyon Avenue
Irvine, California 92618

Subject: Updated Scope of Work for Phase 2 of RIDM Dam Safety Program

Dear Mr. Moeder,

Introduction

As discussed, we are providing this updated proposal for Phase 2 of the RIDM Dam Safety Program. The updates are recommended in response to the work completed and lessons learned from Phase 1 regarding the amount of available information, range of potential failure modes, and information gaps that we have identified.

Scope of Services

Phase 2 of the RIDM Dam Safety Program development will be a continuation of activities initiated under Phase 1 and updated to reflect the information reviewed, findings, and expected needs for completing the program development. The phases of the work identified in our original proposal are still appropriate and would generally accomplish the following objectives:

- Phase 1: Complete activities (data review, site visits, etc.) required to set up the portfolio risk assessment. This includes the development of an initial draft document summarizing the enhanced dam safety framework.
- Phase 2: Complete the portfolio risk assessment, present results, update the program framework document and complete activities related to prioritization and implementation of the program plan.

Task 1 Project Management activities span both Phases. The scope for Task 1 has been updated to reflect only Phase 2 activity requirements. In addition, we have added a Task 2A item to help develop hydrologic information for each dam to include load probabilities for flood events necessary for the SQRA activities under Task 7.

TASK 1 | PROJECT MANAGEMENT

Project management activities will continue during Phase 2. Activities include monitoring and updates of a project plan, staff coordination, schedule and budget monitoring, and coordination of internal quality assurance reviews. This task includes the following:

- Project Management Plan
- Monthly Progress Reports
- QA/QC Activities
- Meetings/Conference Calls

For purposes of estimating the level of effort and direct costs associate with project management, we have assumed that the duration of the Phase 2 work will be up to 4 months. A total of up to 4 additional progress reports and up to four monthly coordination calls with the District are included under this task.

PHASE 2

TASK 2A | PERFORM SQRA LEVEL EVALUATION OF HYDROLOGIC LOADING FOR EACH DAM

The SQRA will require estimates of return periods for various flood loading events including an estimate of the flood return period that results in incipient overtopping of each dam. Under this task, the available hydrologic data for each dam will be leveraged to minimize the work required to provide the required input to the SQRA workshop.

The objective of this task is to develop inflow volume-frequency curves for 2 of the 5 reservoirs to describe hydrologic loading for the dam over-topping event. The results from the 2 reservoirs will be compared to the other 3 reservoirs to determine if results can be used to estimate the hydrologic loading for all 5 reservoirs. Depending on the results, it may be determined that the full volume-frequency approach be applied to the other 3 reservoirs, as well. This assessment will leverage existing information and studies to the extent practicable. The following section describe the steps to develop the reservoir inflow information and the reservoir storage information.

2A.1 Gather and review existing studies and watershed information.

It is anticipated the following information will be collected and reviewed as available:

- a. Hydrologic studies, including PMF Studies for Santiago Creek (GEI, 2020), Sand Canyon (Stetson, 2019) and Syphon Reservoir (GEI, 2012);
- b. National Oceanic and Atmospheric Administration (NOAA) Atlas 14 annual maximum precipitation depth-duration-frequency estimates;
- c. Reservoir depth-storage rating curves;

2A.2 Develop design precipitation events for a wide range of frequencies.

NOAA Atlas 14 provides precipitation frequency estimates for selected durations and frequencies based on analysis of the historical precipitation record. To develop design precipitation events, we will:

- a. Start with the NOAA Atlas 14 annual maximum precipitation depth estimates for the 5-min to 7-day durations, ranging from the “2-yr” event to the “1,000-yr” event. These are provided in a gridded format varying spatially across the watershed.
- b. Apply HMR 59 depth-area reduction factors (ARFs) to convert the precipitation estimates to areal average precipitation for each watershed.
- c. Extrapolate the precipitation values for up to a “25,000-year” event.

2A.3 Use the NOAA Atlas 14 precipitation-frequency curves to estimate runoff volume.

Using a simplified conservative approach, runoff volumes will be estimated from the contributing watershed of each dam.

- a. Obtain the depth-volume rating curve for each dam.

- b. Obtain the drainage area for each watershed.
- c. Assuming no soil loss within the watershed and no outflow from the reservoir, estimate inflow volume-frequency curve (volume = precipitation x drainage area).

2A.4 Estimate frequency for over-topping event.

Based on the inflow volume-frequency curves and the depth-volume rating curves, the frequency for the over-topping event will be estimated for each of the five dams.

2A.5 Develop Draft and Final TM summarizing the Hydrologic Loading information for SQRA

TASK 6 | PRESENTATION/WORKSHOP FOR REVIEW OF PROPOSED DAM SAFETY PROGRAM FRAMEWORK

To facilitate and initial review of the draft dam safety program framework and to support the planned portfolio dam safety and risk assessment under the subsequent task, HDR will perform the following:

- Preparation of presentation and workshop materials
- Conduct a 4 hour framework workshop with the District
- Prepare minutes summarizing the workshop outcomes and action items

TASK 7 | PORTFOLIO DAM SAFETY AND RISK ASSESSMENT

A key tool for the development of an effective, risk informed dam safety management framework is a portfolio dam safety and risk assessment completed using screening to semi-quantitative risk analysis (SQRA) methods. This assessment, using the identified potential failure modes (Task 3) and other available site and design related information (Tasks 2 and 2A), provides an important first look at potential failure risks at each dam within an overall context that helps identify key priorities for further evaluation and possible corrective actions. Under this task, we will perform individual SQRA assessments for each dam (excluding Syphon which has already been completed) and then combine those results into a portfolio assessment of the five district dams. The following is a list of the specific subtasks/actions to be performed to complete this assessment.

- Update the workshop plan drafted during Phase 1 based on input from the District
- Work with the District to identify the full team of risk assessment participants and roles. Note that HDR's current estimate include providing a facilitator (Osmun), note taker (TBD), information manager (Kelly Flint and/or Andrew Little) and 2 risk estimators (Ferguson, Krivanec). Based on information obtained during Phase 1, it is recommended that a third risk estimating cadre member be added for hydrology and hydraulic structures risk estimating. This would either be Mr. William Fiedler or Mr. Ed Zapel. This team will be capable of estimating risks for all categories of PFM's considered at each dam. It is recommended that the District provide several observers and one risk estimator for the workshop.
- Complete the collection and evaluation of available information on each dam (excluding Syphon) and the data reports for each dam initiated during Phase 1. These reports will be provided for review by the risk assessment team members, and for use during the SQRA workshop.
- Using information on each dam included data packages, perform an initial screening of identified PFMs to identify the key risk driving failure modes for evaluation during the workshop. It is anticipated that 3 to 5 risk driving PFMs will be identified for each dam.
- Prepare updated PFM descriptions for the risk driving failure modes.

- Prepare briefing presentation materials and data sets containing information needed by risk team members to estimated risk. Data sets may include such items as summary spreadsheets on boring, instrumentation and laboratory testing information that is searchable or sortable prior to, or during the workshop. Data sets may also include information assembled for filter/drain evaluations, assessment of drain and undrained shear strength or other engineering properties that are needed for seepage and stability analyses. Most recent seepage, stability and seismic response analyses will be identified and summarized for the workshop. Likewise hydraulic and structural analyses and evaluation for critical structures and identified failure modes will be assembled for ready access, review and discussion during the workshop.
- Conduct an initial training session by conference call to prepare all risk assessment participants
- Conduct a risk assessment workshop estimated to take up to 36 hours of time per workshop participant. The workshop will be attended by 6 key personnel from HDR including Ferguson, Osmun, Krivanec, Fiedler/Zapel, Williams and Flint/Little. Technical support will be provided by Risher, Mauney, and Baker.
- Prepare individual dam SQRA summary reports.
- Complete portfolio assessment and initial recommendations
- Present assessment results to District (via conference call)
- Prepare a draft Dam Safety Portfolio Assessment Report
- Finalize Dam Safety Portfolio Assessment Report based on comments received from all assessment team members and other appropriate District and HDR independent reviewers

DISCUSSION:

Example risk matrix that could be incorporated into the Districts Dam Safety Program Framework is shown below on Figure 3. This specific matrix was obtained from the FEMA Federal Guidelines for Dam Safety Risk Management (FEMA, 2015).

The portfolio risk assessment begins with an SQRA for each individual dam. During the workshop a day is dedicated to each dam where each PFM is presented, discussed, updated if appropriate and a decision is made to perform a risk estimate. The failure progression of each PFM are well documented in the workshop and a summary of the PFMs and semi-quantitative risk estimates for each dam are prepared and presented on the risk matrix as shown below on Figure 4.

The PFM estimates can then be assessed to identify PFMs where no action is needed, or potential actions the District could take. Potential actions consider not only the level of risk, but the level of confidence in the risk estimate. Potential actions that might be taken to reduce risk on an interim basis, reduce uncertainty or increase confidence in the risk estimate, or reduce risks are identified.

A typical framework for evaluation of the initial risk estimates is summarized below:

- For PFMs that have low risk, with high confidence in the risk estimate, there would be no further action; or possibly additional actions with a lower priority.
- For PFMs that have low to moderate risk, with low confidence in the risk estimate, there may be follow up actions such as new monitoring (e.g. piezometers) or engineering studies to reduce uncertainty, better define risk, and increase confidence in the risk level (see Engineering Studies bullet below).
- For PFMs that have high risk with high confidence in the risk level, immediate interim risk reduction measures might be justified. However, it is unlikely that risks levels would be judged to

have high confidence with the proposed SQRA level of effort. Long term risk reduction measures might involve structural modifications or replacement. Additional engineering studies to better define the risk are likely not justified, and engineering efforts should focus on risk reduction.

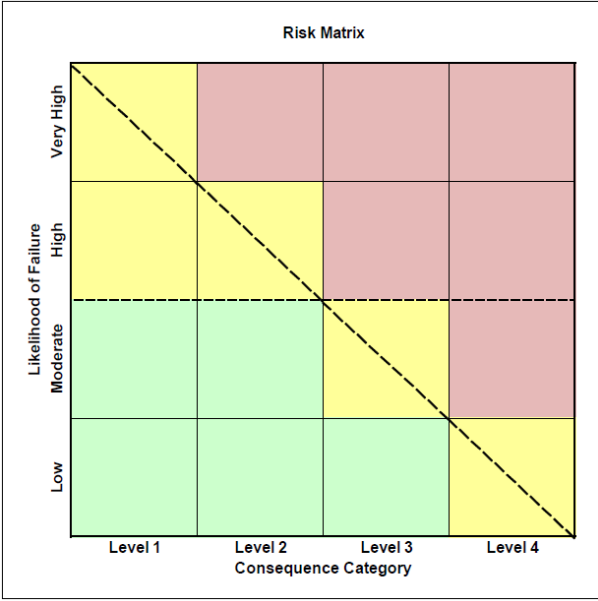


Figure 3: Example Risk Screening Matrix to be Adapted for IRWD Purposes and then for Portfolio Assessment under Task 7.

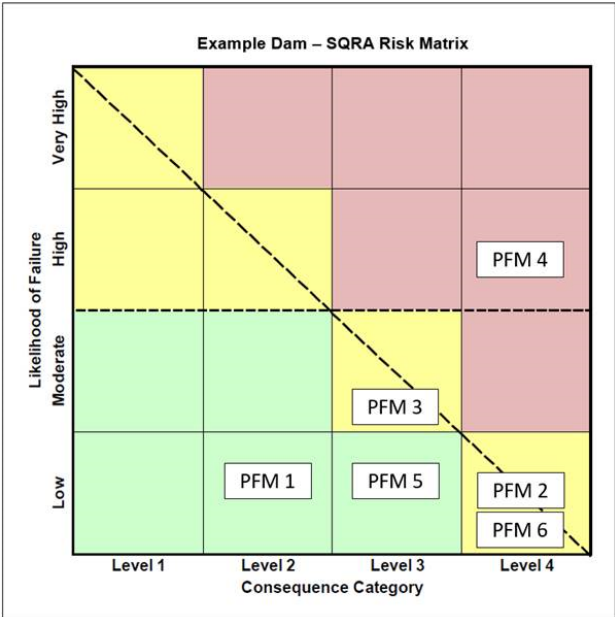


Figure 4: Example Outcome of SQRA for Individual dam showing the building block for the Portfolio Assessment and Basis for Developing Implementation Plan

- For PFMs that have high risk with low confidence in the risk level (this can occur because lack of sufficient information can lead people to be over conservative when estimating risk level), interim risk reduction measures might be considered (each situation is different) but structural modifications to reduce risk would not likely be justified. Follow up actions would focus on actions such as new monitoring (e.g. seepage flow measurement), investigations or engineering studies to better define the risk, reduce uncertainty and increase confidence in the risk level (see studies bullet below).

Engineering Studies: Engineering studies to better define risk, reduce uncertainty and increase confidence might be phased, starting with a simplified approach and increasing in complexity only as needed. Field investigations (e.g. inspections, concrete coring and testing; geotechnical drilling, etc.), as necessary, will be conducted to collect data to support engineering studies. Factors brought out during the SQRA will help inform what type of study and the scope of the studies that are needed. After studies are completed, subsequent risk analyses might indicate risk levels for PFMs could remain the same (with reduced uncertainty and/or greater confidence) or could change. If risk levels decrease, no further action is needed (or action becomes low priority). If risk levels increase, follow up actions might include interim risk reduction measures and/or long term structural modifications to reduce risk.

TASK 8 | FINALIZE DAM SAFETY PROGRAM FRAMEWORK AND DEVELOP IMPLEMENTATION PLAN

Based on the draft program framework prepared under Tasks 5 and 6, and the results of the portfolio dam safety and risk assessment completed under Task 7, HDR will finalize the overall Program Framework Technical Memorandum and will then assist the District in the development of an implementation plan that includes specific actions, timelines, budget guidelines and other information needed/requested by the District as part of the plan.

- Prepare Final Dam Safety Program Framework Technical Memorandum
- Prepare Draft Implementation Plan
- Prepare Final Implementation Plan based on comments from IRWD

Other work efforts anticipated under this task include:

- Support implementing the new Dam Safety Framework including assistance with any policy or cultural changes.
- Support developing and executing additional hazard characterization, engineering evaluations, and field investigation programs;
- Helping set, communicate, and implement priorities to correct the risks identified in Task 7;
- Updating the Portfolio Dam Safety and Risk Assessment as actions are taken;
- Other support as may be identified or requested by the District.

Mr. Jacob Moeder
November 5, 2020

Summary of Phase 2 Deliverables:

The following is a summary of the deliverables that will be produced under the scope of work outlined above:

Phase 2:

- Task 2A: Summary TM on floods and recurrence intervals
- Task 6: Framework workshop materials
- Task 7: Briefing Documents, and Individual SQRA Reports for each dam
Portfolio Assessment Report (draft and final)
- Task 8: Final Dam Safety Framework Document
Draft and Final Implementation Plans

Proposed Phase 2 Budget

The estimated fees to complete the tasks outlined above are summarized below. A spreadsheet showing the hours, unit rates, and expenses forming the basis of the estimated costs for each task is provided as Attachment A.

Phase 2		
Task 1	Project Management	\$ 17,300
Task 2A	SQRA Level Evaluation of Hydrologic Loading	\$ 51,900
Task 6	Framework/Recommendations Workshop	\$ 34,800
Task 7	Portfolio Dam Safety and Risk Assessment	\$ 246,500
Task 8	Final Framework/Implementation Plan	\$ 38,700
Total Phase 2		\$ 389,200

A detailed breakdown of the hours and expenses associated with each task is provided in Attachment A.

Closure

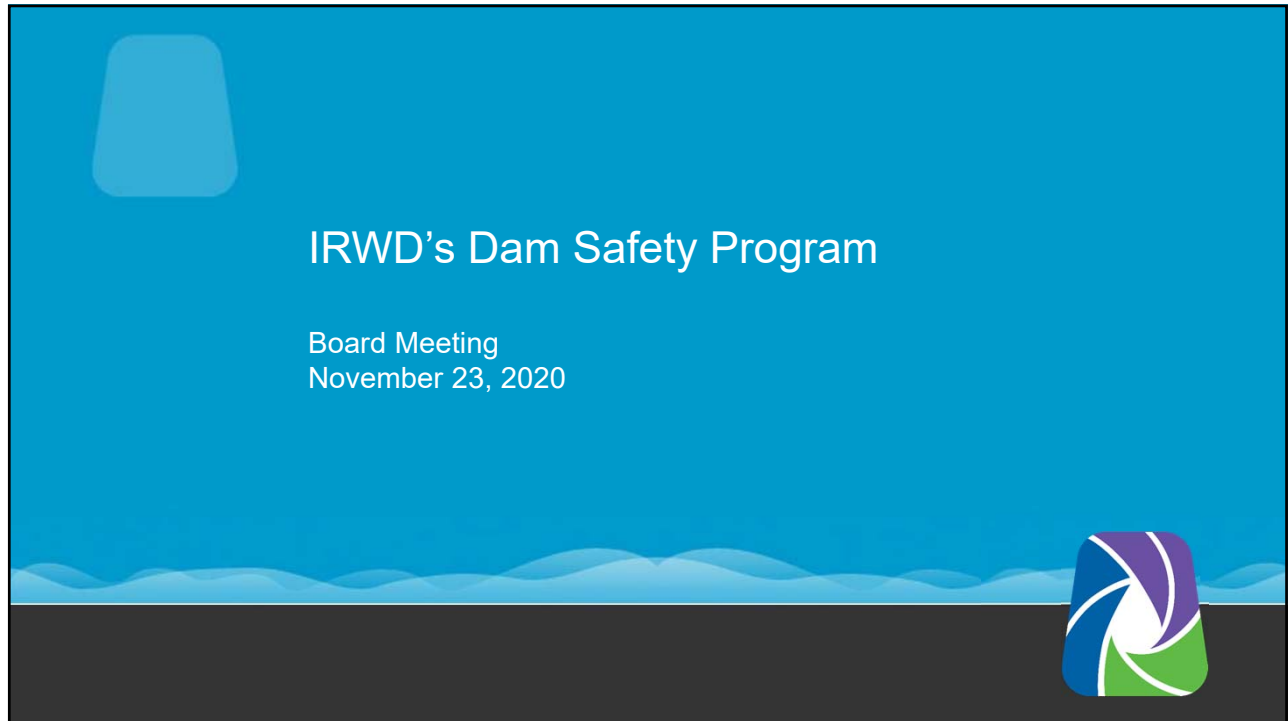
HDR genuinely appreciates the Districts vision and commitment to developing a model dam safety program. We look forward to continuing our assistance during Phase 2. Please let us know if you have any questions or desire further information. We stand prepared to discuss and update the scope of work and level of effort necessary to meet the need of the District going forward.

Attachment A

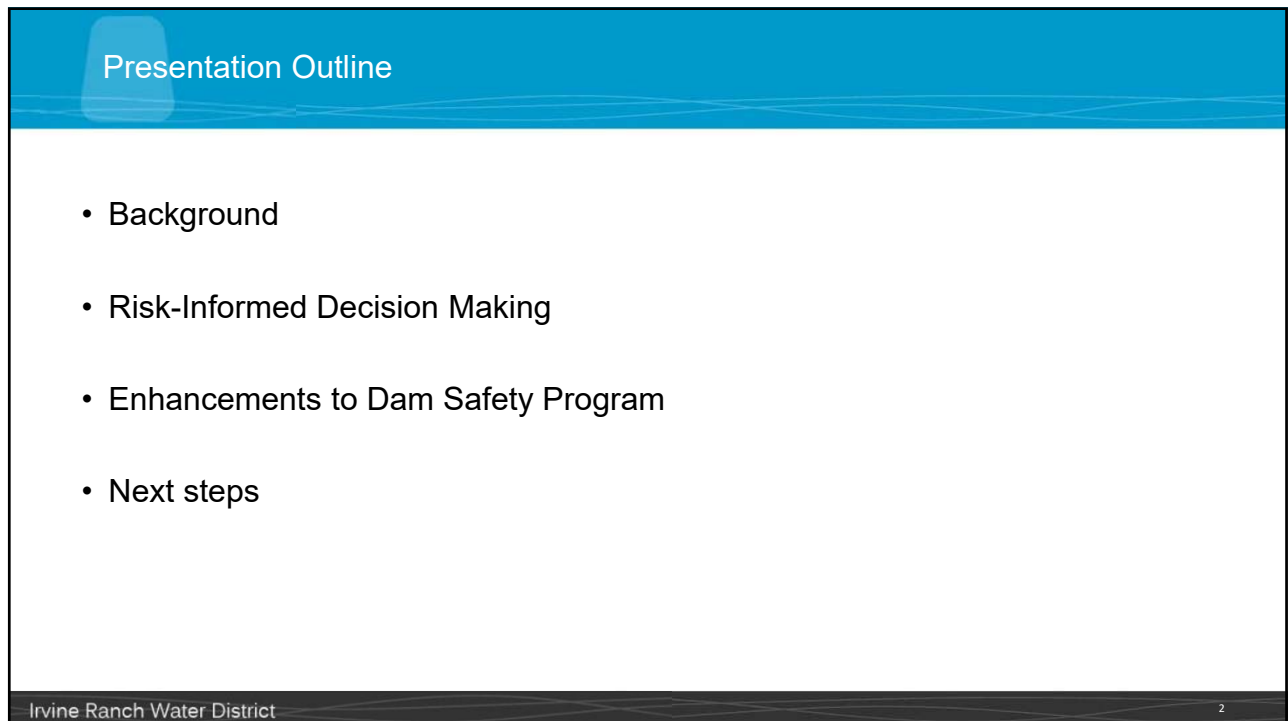
Irvine Ranch Water District
Phase 2 of RIDM Dam Safety Program
Estimated Level of Effort and Fee



NO.	TASK DESCRIPTION	LEVEL OF EFFORT, HOURS															FEE DOLLARS						
		Client Billing Rates	Quality Reviewer	Project Manager	Sr Program Engineer	Sr. Technical Advisor	Sr. Technical Advisor	Sr. Technical Advisor	Sr. Technical Advisor	Sr. Technical Consultant	Sr. Technical Geologist	Project Eng., Geol.	CAD / BIM Manager	CAD / BIM Technician	Accountant	Project Coordinator	TOTAL LABOR	LABOR	Raw Direct Costs	Travel Per Diem	DIRECT COSTS	TOTAL	TOTAL
		\$343	\$313	\$343	\$304	\$304	\$304	\$201	\$278	\$268	\$190	\$206	\$155	\$206	\$125	\$250		1.00%					
1	Project Management																						
1.1	Project Management Plan		1	8	1	1										11	3,495	35		35	3,530		
1.2	Monthly Progress Report			12	4											21	6,159	62		62	6,221		
1.3	QA/QC Activities		3													3	1,029	10		10	1,039		
1.4	Meetings/Conference Calls			8	8	4										20	6,464	65		65	6,529		
	Subtotal 1 Project Management		4	28	13	5	0	0	0	0	0	0	0	0	5	55	17,147	172	0	172	17,319	17,300	
2.A	SQRA Level Evaluation of Hydrologic Loading																						
	Hydrologic Loading Evaluation (2 dams)							34					200		6	8	248	51,403	514		514	51,917	
	Subtotal 2 SQRA Level Hydrologic Loadings		0	0	0	0	0	34	0	0	0	0	200	0	6	8	248	51,403	514	0	514	51,917	51,900
6	Presentation / Workshop for Review of Proposed Dam Safety Program Framework																						
6.1	Workshop Materials			8	8	4		4	4			6				34	10,502	105		105	10,607		
6.2	Workshop			6	8	6		16	3							39	12,219	122	3,000	3,122	15,341		
6.3	Workshop Summary		2	8	6	4		2	4							30	8,788	88		88	8,876		
	Subtotal 6 Presentation / Workshop for Review of Proposed Dam Safety Program Framework		2	22	22	14	22	11	0	0	6	0	0	0	4	103	31,510	315	3,000	3,315	34,825	34,800	
7	Portfolio Dam Safety and Risk Assessment																						
7.1	Workshop Workplan and Risk Assessment Participants				2	6										8	2,509	25		25	2,534		
7.2	Data Review Completion and Initial PFM Screening for Each Dam		18	14	6		6					32				76	20,348	203		203	20,551		
7.3	Updated description for risk driving PFMs		8	2	4		2					6				22	6,189	62		62	6,251		
7.4	Data Sets/Briefing Document for Risk Assessment Team Members		12	8	4		4			8		6	60	2	12	116	26,154	262		262	26,416		
7.5	Initial Training Session		2	2	6		2									14	4,145	41		41	4,186		
7.6	Risk Assessment Workshop		36	36	44		8	20		6		88				238	63,927	639	3,600	4,239	68,166		
7.7	Draft and Final SQRA Reports for Each Dam		28	8	24		8	8		8		156	2	24		24	290	62,922	629		629	63,551	
7.8	Portfolio Assessment and Initial Recommendations		4	8	16		4					24				56	14,770	148		148	14,918		
7.9	Results Presentation			8	12	5		4				8	2	8		49	12,104	121		121	12,225		
7.10	Draft Portfolio Assessment Report		3	6	12		32		6			32				91	24,833	248		248	25,081		
7.11	Finalize Portfolio Assessment Report			1	3	4										8	2,557	26		26	2,583		
	Subtotal 7 Portfolio Dam Safety and Risk Assessment		3	123	107	151	20	48	24	0	6	406	6	44	0	30	968	240,458	2,404	3,600	6,004	246,462	246,500
8	Final Framework/Implementation Plan																						
8.1	Final Framework Document			2	12	6		20	4			4				18	78	19,569	196		196	19,765	
8.2	Implementation Plan - Draft		2	2	8	4		6	4							8	34	9,311	93		93	9,404	
8.3	IP - Final		2	2	4	2		2	2							4	18	5,008	50		50	5,058	
8.4	Allowance for other Services			4	4			2								14	4,448	44		44	4,492		
	Subtotal 8 Final Framework/Implementation Plan		4	10	28	16	28	12	0	4	0	12	0	0	0	30	144	38,335	383	0	383	38,718	38,700
	TOTAL, hours		13	183	170	186	70	105	24	4	12	618	6	50	5	72	1,518						
	TOTAL, dollars																378,854	3,788	6,600	10,388	389,242	389,200	



1



2



Background

- IRWD owns and operates five dams
 - DSOD Hazard Potential Classification – Extremely High



Santiago Creek



Rattlesnake



Syphon



San Joaquin



Sand Canyon

Enhance IRWD's Dam Safety Program utilizing IRWD's guiding principles for dam safety.

3

IRWD's Guiding Principles for Dam Safety

- Prioritize public safety and earn the public's trust by developing and implementing a state-of-the-art dam safety program
- Enhance the clarity and transparency of IRWD's dam safety program with IRWD's customers and the community
- Establish "Risk Informed Decision Making" strategies for dam and reservoir management consistent with industry best practices that maximize safety and water supply reliability
- Ensure that the District's dams maintain the highest condition rating issued by DSOD
- Ensure ongoing dam safety through dam and reservoir facility monitoring, inspection, maintenance



4



Enhancing IRWD's Dam Safety Program

- HDR retained to develop initial draft framework for enhancing IRWD's dam safety program
- HDR is a leading consultant in the dam industry with vast Risk-Informed Decision Making (RIDM) experience



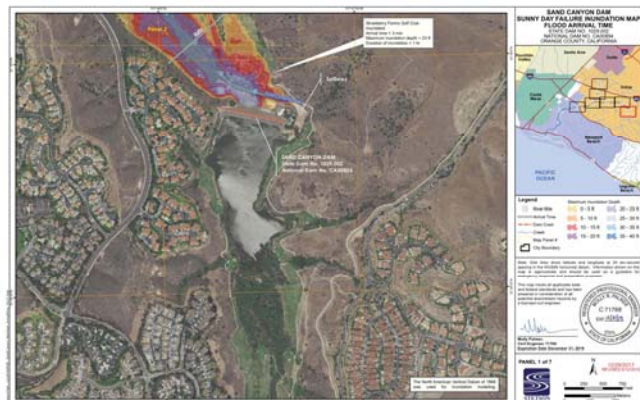
Approach to Enhancing Program:

- *Phase 1:* Collect and review relevant dam information, consider dam performance, and develop draft framework for enhanced dam safety program
- *Phase 2:* Perform risk analysis, develop implementation plan, and finalize framework for dam safety program

5

Background – Current Dam Safety Measures

- Emergency Action Plans
- Surveillance and Monitoring
 - Survey Monuments
 - Piezometers
 - Subdrains
 - Visual inspections
- OP 10 – Dam/Reservoir Emergency



6



General Approaches to Dam Safety Assessment

- Standards Based Approach (SBA):
 - Long-standing traditional approach
- Risk-Informed Decision Making (RIDM):
 - Process of making safety decisions by evaluating if existing risks are tolerable and present risk reduction measures are adequate
- Opportunity to enhance IRWD's existing dam safety program by including RIDM

7

Risk Informed Decision Making

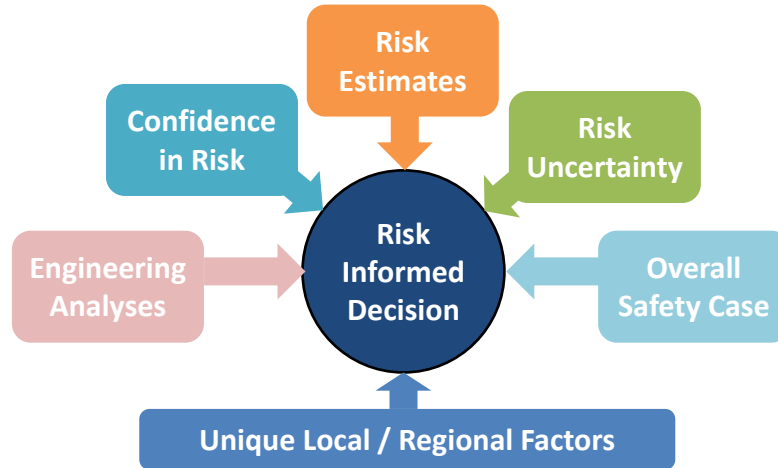
- FEMA issued 1st Federal Guidelines for Dam Safety in 1979
- Bureau of Reclamation is the first agency to implement RIDM in 1997
- Department of Water Resources (DWR) – Division of Safety of Dams (DSOD) will start integrating RIDM into its dam safety program



8



What is RIDM?



9

DSOD Implementation of RIDM

- In May 2020, DSOD announced transition to RIDM
 - Based upon “best practices” at the federal level
 - DSOD plans on performing a comprehensive re-evaluation and identification of deficiencies for each dam
 - DSOD has 650 high and extremely high hazard dams within the state
 - Develop initial screening indicators to prioritize the re-evaluation
- Opportunity to shape DSOD’s Dam Safety Program and ensure IRWD’s program aligns with DSOD



10



Enhancing IRWD's Dam Safety Program – Phase 1

- Reviewed and summarized existing data and documents for each dam
- Developed list of potential failure modes (PFMs)
- Identified potential earthquake and flood hazards
- Identified downstream consequences
- Developed overall framework for the program



Comprehensive Dam Safety Evaluation

RATTLESNAKE CANYON DAM
DAM NO. 1029-3
Extremely High Hazard
Orange County, CA
Irvine Ranch Water District

DRAFT
8/11/2020

11

IRWD's Dam Safety Program - Framework

- Dam inventory, dam record keeping, inspections, dam surveillance/monitoring, dam safety/risk analyses, risk/safety evaluation, and dam design/construction
- Periodic Updates to Risk Assessment
 - Every 5-10 years
- Develop written policies and procedures
- Develop and maintain 5-year strategic plans, annual reports and work plans



12



Next Steps

- Discuss IRWD's RIDM-based Dam Safety Program with DSOD
- Proceed with Phase 2 work
 - Perform risk analysis
 - Develop implementation plan
 - Complete Dam Safety Program framework



13


Recommendation

- Staff recommends that the Board authorize the General Manager to execute a Professional Services Agreement in the amount of \$389,200 with HDR for the second phase of the Dam Safety Program





14





Questions/Discussion



15

15



November 23, 2020
Prepared by: K. Welch / F. Sanchez
Submitted by: P. Weghorst
Approved by: Paul A. Cook



ACTION CALENDAR

REVISED WATER BANKING, TRANSFERS AND WHEELING POLICY POSITION PAPER

SUMMARY:

Irvine Ranch Water District policy position papers are reviewed periodically to determine if the positions are still valid, need revisions or if additional papers need to be written on different issues of importance to the District. Staff has revised the existing Water Banking, Transfers and Wheeling Policy Position Paper that was last updated and approved on September 25, 2017. The current revisions take into consideration significant changes that have occurred since that time. Staff recommends the Board approve the revised Water Banking, Transfers and Wheeling Policy Position Paper.

BACKGROUND:

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

IRWD's Water Banking, Transfers and Wheeling position paper was last revised and adopted by the Board on September 25, 2017. Since that time:

- IRWD has completed construction of wells that allow IRWD to ensure the ability to recover water for itself and its partners during peak demand periods;
- IRWD has made progress on the development of the Kern Fan Groundwater Storage Project; and
- Other Extraordinary Supply projects are being developed in the Metropolitan Water District of Southern California service area.

These changes, as well as other events that are increasing competition for water resources and increasing the cost of water, require updating of the Water Banking, Transfers and Wheeling Policy Position Paper. The other events that are increasing the competition for supplies include:

- Implementation of the Sustainable Groundwater Management Act;
- Amendments to the State Water Project Contract allowing compensation for transfers of water; and
- The Isabella Lake Dam Safety Modification Project.

Staff has updated the policy paper taking into consideration these changes. The updated Water Banking, Transfers and Wheeling Policy Position Paper is provided as Exhibit “A”. The position paper with changes identified from the September 25, 2017 version of the document is provided as Exhibit “B”.

FISCAL IMPACTS:

None.

ENVIRONMENTAL COMPLIANCE:

None.

COMMITTEE STATUS:

This item was reviewed by the Supply Reliability Programs Committee on November 19, 2020.

RECOMMENDATION:

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

LIST OF EXHIBITS:

Exhibit “A” – Updated Policy Paper: Water Banking, Transfers and Wheeling

Exhibit “B” – Updated Policy Paper: Water Banking, Transfers and Wheeling with Changes
Shown from the September 25, 2017 Version

Exhibit “A”

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

Revised: November 23, 2020

Issue Summary:

The Irvine Ranch Water District is further diversifying its water supply portfolio by developing water banking facilities in the Kern Fan area located in the southern San Joaquin Valley in Kern County. Water supplies continue to be stressed in California due to implementation of the Sustainable Groundwater Management Act (SGMA), increased competition for water supplies, potential shortages from the Colorado River, supply limitations from and environmental constraints in the Sacramento-San Joaquin Delta (Delta), potential climate change and reoccurring droughts. Under such conditions, water banking recharge, storage and recovery programs will continue to provide a cost effective and reliable supplemental source of water that can be relied upon during majors droughts and periods of supply interruptions. The development of and participation in water banking programs and other types of emergency supply projects by retail water agencies should be encouraged throughout the State. This policy position paper provides Policy Principles for the implementation of the IRWD water banking program as well as other banking programs in the Metropolitan Water District of Southern California (MWD) service area.

IRWD Supply Diversity Requirements:

IRWD’s primary mission is to provide a safe and reliable water supply to its customers. IRWD’s water supply reliability is directly related to supply diversity. Along with the implementation of numerous water use efficiency programs, IRWD has developed and continues to develop a diverse mix of local and non-local supplies including high quality groundwater, impaired groundwater, and recycled water – all of which reduce IRWD’s dependence on imported water.

In March 2020, IRWD completed a Water Supply Reliability Evaluation that affirmed the need for IRWD’s water banking programs to meet District demands during future droughts and major supply interruptions. Current demand projections indicate that IRWD has a long-term need to store supplemental water that could be called upon during drought conditions or major supply interruptions. In the event of a major and prolonged supply interruption, such as an earthquake that significantly damages the levees in the Delta, this stored water would be available to fulfill IRWD’s estimated needs for imported water over three years. IRWD’s water banking programs make IRWD more resilient during major shortages. IRWD’s water banking program is a cost effective and environmentally sound method to store and recover supplemental water to meet such long-term supply reliability requirements.

Key Elements of IRWD’s Water Banking Program:

Since 2005, IRWD has made significant progress in the development of its water banking program and in securing associated supplemental supplies. IRWD has purchased land, constructed facilities, and is now operating the Strand and Stockdale Integrated Banking Projects through a long-term partnership with Rosedale-Rio Bravo Water Storage District. IRWD retains equity ownership of these water banking projects. IRWD has also partnered with Rosedale and

Santa Clarita Valley Water Agency to complete the construction of wells that ensure IRWD's ability to recover water for itself and its partners during peak demand periods.

Securing Water Supplies:

So far, IRWD has secured water supplies for its water banking projects through unbalanced exchange partnerships with other agencies. These partnerships allow agencies with surplus water to store water in IRWD's water banking projects in return for transferring 50 percent or more of the water to IRWD. Such exchanges are called unbalanced exchanges because only half or less of the water that is delivered into storage is returned to the originating agency.

Addressing Increased Competition:

SGMA was signed into law by Governor Jerry Brown in September 2014 for the purpose of developing and implementing sustainable groundwater management plans throughout California. By January 31, 2022, all high- and medium-priority groundwater basins must have in place a Groundwater Sustainability Plan and all basins in overdraft must achieve groundwater sustainability by year 2042. The implementation of these plans is increasing competition for water supplies and putting upward pressure on the cost of water as agencies work to optimize the use of surface supplies and expand water storage capabilities.

Other factors that will increase cost of water in the Kern Fan area include implementation of amendments to the State Water Project (SWP) Contract allowing compensation for transfers of water and the completion of the Isabella Lake Dam Safety Modification project, both of which will allow water right holders to better manage their supplies with a greater financial return. The use of transfers with associated financial compensation will become more flexible and easier to implement. Unbalanced exchanges will frequently include financial compensation components.

Increased competition for water supplies will require IRWD to adopt strategies to continue securing water for its Water Banking Projects while minimizing its cost of water. Strategies to be adopted by the IRWD Board of Directors could include leveraging IRWD's existing banked supplies to secure greater amounts of water and focusing on increasing the District's reliance on smaller schedulable sources of supply.

Wheeling and Exchange Agreements:

In 2011, IRWD, Metropolitan Water District of Southern California (MWD) and Municipal Water District of Orange County (MWDOC) executed a long-term Coordinated Operating, Exchange and Delivery Agreement (Coordinated Agreement) that facilitates the delivery of SWP supplies from IRWD's water banking projects to IRWD's service area. The agreement allows IRWD to secure SWP supplies with the concurrence of MWD, with MWD maintaining control of the introduction of these supplies into its service area. In 2014, IRWD, MWD and MWDOC developed and executed a template Wheeling Agreement that facilitated the delivery of non-SWP water into IRWD's service area. Water delivered to IRWD's service area, through the use of either of these agreements, is considered "Extraordinary Supply" by MWD during water supply allocation periods. It is IRWD's position, that the Coordinated Agreement and the

template Wheeling Agreement will be used by IRWD in the future to facilitate the delivery of water that is recovered from IRWD's water banking projects to IRWD's service area.

Supporting Extraordinary Supply Projects:

Other agencies in southern California are pursuing the development of Extraordinary Supply Projects that will require water purchase, wheeling and exchange capabilities. It is IRWD's position that MWD Member Agencies should support and not impede the ability of agencies to develop and implement agreements for purchasing water, implementing exchanges and wheeling of water associated with Extraordinary Supply Projects. Sponsors of all Extraordinary Supply Projects should work together to avoid impediments being imposed on projects.

Sharing Reliability Benefits:

The acquisition of supplemental supplies for IRWD's water banking projects is likely to require the use of unbalanced exchange concepts whereby IRWD stores water on behalf of another party in return for 50 percent or more of the water being transferred to IRWD. The storage and recovery of water for IRWD's exchange partners will take up capacity in IRWD's water banking projects that might otherwise be available for IRWD's use.

Recently, other agencies have expressed an interest in securing shared reliability from IRWD's water banking programs. It is IRWD's intent, after taking into consideration IRWD's reliability needs as well as hydrologic conditions, regional water supply conditions and storage levels, that IRWD will be able to enter into shared reliability program agreements that will allow other retail water agencies to receive reliability benefits from IRWD's water banking program. In exchange for receiving these benefits, the agencies would reimburse IRWD for its costs along with a proportional share of IRWD's capital investment in its water banking facilities.

Need for Expansion:

The implementation of future unbalanced exchanges and sharing of reliability benefits from IRWD's water banking projects will result in the need to expand IRWD's water banking capacities. In addition, potential climate change impacts could further increase the need to expand IRWD's water banking projects. Such expansions will ensure that IRWD can meet its water supply reliability requirements while meeting the requirements of its partners. IRWD and Rosedale are working to expand their respective water banking projects with the development of the Kern Fan Groundwater Storage Project (Kern Fan Project). IRWD and Rosedale will each have equity ownership in half of the project. IRWD and Rosedale have been conditionally approved to receive \$67.5 million in Proposition 1 Water Storage Investment Program funding for the Kern Fan Project. The agencies are currently pursuing up to \$63 million in Water Infrastructure Improvements for the Nation Act funding for the project.

Offsetting Capital Investments:

When IRWD has enough water in storage to meet its Extraordinary Supply Needs as well as the needs of those agencies to which IRWD has committed to shared water supply reliability, then

IRWD could consider selling a portion of its banked supplies in dry years to offset its capital investment in the water banking projects. The use of this strategy would need to take into careful consideration of existing regional storage levels, current water supply conditions, IRWD's demands for imported water and expectations for future water supplies.

Objectives for Acquiring Supplemental Water Supplies:

IRWD's objectives for acquiring both short and long-term supplemental water supplies through water transfers, exchanges and other market transactions, that would be available to IRWD's water banking projects and other water supply reliability programs, excluding supplies needed to fulfill local operations (including irrigation), are as follows:

1. IRWD seeks to acquire low-cost and diverse supplemental sources of water such as high flow Kern River water, State Water Project supplies, water associated with pre-1914 rights, CVP supplies and water from other available sources depending on annual availability and conveyance capacity availability.
2. Generally, IRWD seeks to acquire up to 67% of its supplemental supplies during wet hydrologic periods subject to the conditions established by the water supplier and availability. IRWD does not intend to compete for supplemental supplies during dry years.
3. Over the long term, IRWD plans to acquire up to 33% of its supplemental supplies through smaller sustained, controllable and schedulable supply sources. Such supplies are expected to be acquired through the purchases of farm land that have water supply entitled to it and by securing rights to new water supplies and the ability to convey the water without significant losses. IRWD intends to preserve existing agricultural uses on purchased lands when possible, and will schedule excess water for direct or exchange delivery to its water banking and other water supply reliability programs through rotational fallowing or onsite conservation using methods that are implemented in coordination with the local community with the intent to minimize significant third-party impacts to local economies.

Policy Principles:

Based on the information provided above, the following IRWD policy principles have been developed. These principles provide guidance on issues related to water banking, transfers, exchanges, wheeling of water and Extraordinary Supply projects.

1. The State's water supplies are being impacted by reoccurring droughts, problems in the Delta, a growing population, competition for supplies, increasing costs of water, increasing regulatory pressure, potential climate change impacts, and an imbalance between available water supplies and available storage. As a result, IRWD needs supplemental supplies and storage facilities to bank the supplemental water supplies for use during dry periods.

2. Based on economic and environmental criteria, water banking programs involving storage in groundwater aquifers are preferred, having demonstrated that they are less expensive and preferable to surface storage.
3. A primary mission of IRWD is to provide a highly reliable supply of water. Reliability is enhanced by having multiple redundant sources of supply. To address this need, IRWD will develop diverse supplemental water supply sources and water banking capacities that will be sufficient to meet changes in IRWD's reliability needs in the future.
4. IRWD seeks to secure low-cost and diverse supplemental sources of wet year and smaller schedulable water supplies including high flow Kern River, State Water Project supplies, water with pre-1914 rights, CVP supplies and water from other available sources depending on annual availability and conveyance and/or exchange capacity that will allow IRWD to achieve its water supply reliability goals through the implementation its water banking program.
5. Because of the District's obligation to its customers, long-term equity ownership of water banking capacity as well as lands and projects that have water supplies entitled to them is strongly preferred over contract or lease arrangements. Equity partnerships that provide benefits to both the District and to local entities are preferred.
6. The District's water banking partners will benefit from the sharing of recharge, storage and recovery capacity through unbalanced exchanges and shared reliability benefit programs. In addition, due to potential climate change, the future intervals between wet years could become longer with increases in the rate of runoff. These issues may make it necessary for IRWD in the future to consider increasing recharge, storage and recovery capacities in its water banking program.
7. Expansion of water banking capacities may be considered through equity purchases of capacities available in existing water banking programs or development of partnerships for capacity expansion.
8. IRWD will support wheeling policies and rates adopted by MWD, MWD Member Agencies and other agencies to the extent they reflect cost of service approach. Any wheeling or exchange of water through MWD's conveyance facilities should be consistent with MWD's Administrative Code, must not financially impact MWD or its Member Agencies and should protect MWD's rights including its SWP contract.
9. MWD Member Agencies should support and not impede the ability of agencies to implement Extraordinary Supply projects and to wheel or exchange water through MWD's conveyance facilities.
10. IRWD will work with sponsors of other Extraordinary Supply projects and support exchanges of water that prevent or avoid impediments that threaten the feasibility or increase the costs of the projects.

11. IRWD will put all available supplemental water supplies to beneficial use using methods that are implemented in coordination with the communities that are local to the source waters and where necessary attempt to minimize significant third-party impacts while preserving the agricultural benefits of the contributing lands through temporary fallowing arrangements and / or water conservation efforts.
12. IRWD will seek partnerships that result in mutually beneficial exchange and transfer opportunities including the ability to enhance direct and in-lieu recharge or recovery operations associated with IRWD’s water banking program.
13. IRWD will support and actively work with the State and the Federal governments and available legislative processes to streamline procedures for the implementation of short and long-term water transfers and exchanges as well as the formation of local, regional and statewide water marketing systems.
14. IRWD will support the development of water marketing systems in the State of California that are consistent with and do not expand existing lawful authorities, provide local and regional oversight of markets, encourage regional and statewide cooperation, protect existing land, water and capacity rights, attempt to protect communities from unreasonable third party and / or environmental impacts, do not interfere with contract rights and that result in streamlined abilities to effectuate water transfers, exchanges and wheeling of supplies among voluntary market participants.
15. To address increasing competition and costs for water, IRWD will consider leveraging its existing banked supplies to secure greater amounts of water while maximizing the exportability of water. IRWD will also consider increasing the District’s reliance on small and schedulable sources of supplies.
16. IRWD will support sharing water supply reliability benefits from its water banking program after considering its own water supply reliability needs as well as hydrologic and regional water supply conditions including storage levels. .
17. When IRWD has enough water in storage to meet its Extraordinary Supply Needs as well as the needs of the agencies to which IRWD has committed shared water supply reliability, then IRWD will consider selling a portion of its banked supplies in dry years to offset its capital investment in the water banking projects. Such sales would consider existing regional storage levels, current water supply conditions, IRWD’s demands for imported water and expectations for future water supplies.

Exhibit “B”

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

Revised: ~~September 25, 2017~~ November 23, 2020

Issue Summary:

The Irvine Ranch Water District is further diversifying its water supply portfolio by developing water banking facilities [in the Kern Fan area](#) located in the southern San Joaquin Valley in Kern County. Water supplies continue to be stressed in California due to [implementation of the Sustainable Groundwater Management Act \(SGMA\)](#), [increased competition for water supplies](#), potential shortages from the Colorado River, supply limitations from [and environmental constraints in](#) the Sacramento-San Joaquin Delta (Delta), potential climate change and reoccurring droughts. Under such conditions, water banking recharge, storage and recovery programs will continue to provide a cost effective and reliable supplemental source of water that can be relied upon during majors droughts and periods of supply interruptions. The development of and participation in water banking programs [and other types of emergency supply projects](#) by retail water agencies should be encouraged throughout the State. This policy position paper provides Policy Principles for the implementation of the IRWD water banking program [as well as other banking programs in the Metropolitan Water District of Southern California \(MWD\) service area](#).

IRWD Supply Diversity Requirements:

IRWD’s primary mission is to provide a safe and reliable water supply to its customers. IRWD’s water supply reliability is directly related to supply diversity. Along with the implementation of numerous water use efficiency programs, IRWD has developed and continues to develop a diverse mix of local and non-local supplies including high quality groundwater, impaired groundwater, and recycled water – all of which ~~reducing~~ reduce IRWD’s dependence on imported water.

[In March 2020](#), IRWD ~~has~~ completed a Water Supply Reliability Evaluation that affirmed the [need for](#) IRWD’s water banking programs to meet District demands during future droughts and major supply interruptions. Current demand projections indicate that IRWD has a long-term need to store supplemental water that could be called upon during drought conditions or major supply interruptions. In the event of a major [and prolonged](#) supply interruption, such as an earthquake that significantly damages the levees in the Delta, this stored water would be available to fulfill IRWD’s estimated needs for imported water over [extended periods of timethree years](#). [IRWD’s water banking programs make IRWD more resilient during major shortages](#). IRWD’s water banking program is a cost effective and environmentally sound method to store and recover supplemental water to meet such long-term supply reliability requirements.

Key Elements of IRWD’s Water Banking Program:

Since 2005, IRWD has made significant progress in the development of its water banking program and in securing associated supplemental supplies. IRWD has purchased land, constructed facilities, and is now operating the Strand and Stockdale Integrated Banking Projects

through a long-term partnership with Rosedale-Rio Bravo Water Storage District. IRWD retains equity ownership of these water banking projects. IRWD ~~has~~ also ~~partnering~~ ~~partnered~~ with Rosedale and ~~Castaie Lake Water Agency~~ Santa Clarita Valley Water Agency to complete in the construction of wells that ~~will allow~~ ensure IRWD's ~~to ensure the~~ ability to recover water for itself and its partners during peak demand periods.

Securing Water Supplies:

So far, IRWD has secured water supplies for its water banking projects through unbalanced exchange partnerships with other agencies. These partnerships allow agencies with surplus water to store water in IRWD's water banking projects in return for transferring 50 percent or more of the water to IRWD. Such exchanges are called unbalanced exchanges because only half or less of the water that is delivered into storage is returned to the originating agency.

Addressing Increased Competition:

SGMA was signed into law by Governor Jerry Brown in September 2014 for the purpose of developing and implementing sustainable groundwater management plans throughout California. By January 31, 2022, all high- and medium-priority groundwater basins must have in place a Groundwater Sustainability Plan and all basins in overdraft must achieve groundwater sustainability by year 2042. The implementation of these plans is increasing competition for water supplies and putting upward pressure on the cost of water as agencies work to optimize the use of surface supplies and expand water storage capabilities.

Other factors that will increase cost of water in the Kern Fan area include implementation of amendments to the State Water Project (SWP) Contract allowing compensation for transfers of water and the completion of the Isabella Lake Dam Safety Modification project, both of which will allow water right holders to better manage their supplies with a greater financial return. The use of transfers with associated financial compensation will become more flexible and easier to implement. Unbalanced exchanges will frequently include financial compensation components.

Increased competition for water supplies will require IRWD to adopt strategies to continue securing water for its Water Banking Projects while minimizing its cost of water. Strategies to be adopted by the IRWD Board of Directors could include leveraging IRWD's existing banked supplies to secure greater amounts of water and focusing on increasing the District's reliance on smaller schedulable sources of supply.

Wheeling and Exchange Agreements:

In 2011, IRWD, Metropolitan Water District of Southern California (MWD) and Municipal Water District of Orange County (MWDOC) executed a long-term Coordinated Operating, Exchange and Delivery Agreement (Coordinated Agreement) that facilitates the delivery of State Water Project (SWP) supplies from IRWD's water banking projects to IRWD's service area. The agreement allows IRWD to secure SWP supplies with the concurrence of MWD, with MWD maintaining control of the introduction of these supplies into its service area. In 2014, IRWD, MWD and MWDOC developed and executed a template Wheeling Agreement that

facilitated the delivery of non-SWP water into IRWD’s service area. Water delivered to IRWD’s service area, through the use of either of these agreements, is considered “Extraordinary Supply” by MWD during water supply allocation periods. It is IRWD’s position, that the Coordinated Agreement and the template Wheeling Agreement will be used by IRWD in the future to facilitate the delivery of water that is recovered from IRWD’s water banking projects to IRWD’s service area.

Supporting Extraordinary Supply Projects:

Other agencies in southern California are pursuing the development of Extraordinary Supply Projects that will require water purchase, wheeling and exchange capabilities. It is IRWD’s position that MWD Member Agencies should support and not impede the ability of agencies to develop and implement agreements for purchasing water, implementing exchanges and wheeling of water associated with Extraordinary Supply Projects. Sponsors of all Extraordinary Supply Projects should work together to avoid impediments being imposed on projects.

Sharing Reliability Benefits:

The acquisition of supplemental supplies for IRWD’s water banking projects is likely to require the use of unbalanced exchange concepts whereby IRWD stores water on behalf of another party in return for 50 percent or more of the water being transferred to IRWD. The storage and recovery of water for IRWD’s exchange partners will take up capacity in IRWD’s water banking projects that might otherwise be available for IRWD’s use.

Recently, other agencies have expressed an interest in securing shared reliability from IRWD’s water banking programs. It is IRWD’s intent, after taking into consideration IRWD’s reliability needs as well as hydrologic conditions, and regional water supply conditions and storage levels, that IRWD will be able to enter into shared reliability program agreements that will allow other retail water agencies to receive reliability benefits from IRWD’s water banking program. In exchange for receiving these benefits, the agencies would reimburse IRWD for its costs along with a proportional share of IRWD’s capital investment in its water banking facilities.

Need for Expansion:

The implementation of future unbalanced exchanges and sharing of reliability benefits from IRWD’s water banking projects will result in the need to expand IRWD’s water banking capacities. In addition, potential climate change impacts could further increase the need to expand IRWD’s water banking projects. Such expansions will ensure that IRWD can meet its water supply reliability requirements while meeting the requirements of its partners. IRWD and Rosedale are currently planning working to expand their respective water banking projects and are working together to secure grant funds from the California Water Commission through the Water Storage Investment Program, that would be used to with the development of the proposed Kern Fan Groundwater Storage Project (Kern Fan Project). IRWD and Rosedale will each have equity ownership in half of the project. IRWD and Rosedale have been conditionally approved to receive \$67.5 million in Proposition 1 Water Storage Investment Program funding for the

Kern Fan Project. The agencies are currently pursuing up to \$63 million in Water Infrastructure Improvements for the Nation Act funding for the project.

Offsetting Capital Investments:

When IRWD has enough water in storage to meet its Extraordinary Supply Needs as well as the needs of those agencies to which IRWD has committed to shared water supply reliability, then IRWD could consider selling a portion of its banked supplies in dry years to offset its capital investment in the water banking projects. The use of this strategy would need to take into careful consideration of existing regional storage levels, current water supply conditions, IRWD's demands for imported water and expectations for future water supplies.

Objectives for Acquiring Supplemental Water Supplies:

IRWD's objectives for acquiring both short and long-term supplemental water supplies through water transfers, exchanges and other market transactions, that would be available to IRWD's water banking projects and other water supply reliability programs, excluding supplies needed to fulfill local operations (including irrigation), are as follows:

1. IRWD seeks to acquire low-cost and diverse supplemental sources of water such as high flow Kern River water, State Water Project supplies, water associated with pre-1914 rights, CVP supplies and water from other available sources depending on annual availability and conveyance capacity availability.
2. Generally, IRWD seeks to acquire up to 67% of its supplemental supplies during wet hydrologic periods subject to the conditions established by the water supplier and availability. IRWD does not intend to compete for supplemental supplies during dry years.
3. Over the long term, IRWD plans to acquire up to 33% of its supplemental supplies through smaller sustained, controllable and schedulable supply sources. Such supplies are expected to be acquired through the purchases of farm land that have water supply entitled to it and by securing rights to new water supplies and the ability to convey the water without significant losses. IRWD intends to preserve existing agricultural uses on purchased lands when possible, and will schedule excess water for direct or exchange delivery to its water banking and other water supply reliability programs through rotational fallowing or onsite conservation using methods that are implemented in coordination with the local community with the intent to minimize significant third-party impacts to local economies.

Policy Principles:

Based on the information provided above, the following IRWD policy principles have been developed. These principles provide guidance on issues related to water banking, transfers, exchanges, wheeling of water and Extraordinary Supply projects.

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

9. MWD Member Agencies should support and not impede the ability of agencies to implement Extraordinary Supply projects and to wheel or exchange water through MWD's conveyance facilities.

8.10. IRWD will work with sponsors of other Extraordinary Supply projects and support exchanges of water that prevent or avoid impediments that threaten the feasibility or increase the costs of the projects.

9.11. IRWD will put all available supplemental water supplies to beneficial use using methods that are implemented in coordination with the communities that are local to the source waters and where necessary attempt to minimize significant third-party impacts while preserving the agricultural benefits of the contributing lands through temporary fallowing arrangements and / or water conservation efforts.

10.12. IRWD will seek partnerships that result in mutually beneficial exchange and transfer opportunities including the ability to enhance direct and in-lieu recharge or recovery operations associated with IRWD's water banking program.

11.13. IRWD will support and actively work with the State and the Federal governments and available legislative processes to streamline procedures for the implementation of short and long-term water transfers and exchanges as well as the formation of local, regional and statewide water marketing systems.

14. IRWD will support the development of water marketing systems in the State of California that are consistent with and do not expand existing lawful authorities, provide local and regional oversight of markets, encourage regional and statewide cooperation, protect existing land, water and capacity rights, attempt to protect communities from unreasonable third party and / or environmental impacts, do not interfere with contract rights and that result in streamlined abilities to effectuate water transfers, exchanges and wheeling of supplies among voluntary market participants.

12.15. To address increasing competition and costs for water, IRWD will consider leveraging its existing banked supplies to secure greater amounts of water while maximizing the exportability of water. IRWD will also consider increasing the District's reliance on small and schedulable sources of supplies.

16. IRWD will support sharing water supply reliability benefits from its water banking program after considering its own water supply reliability needs as well as hydrologic and regional water supply conditions including storage levels. In providing such benefits, IRWD will ensure that it is kept financially whole and that IRWD recovers a proportional share of its capital investments in a way that avoids negative impacts to its customers.

13.17. When IRWD has enough water in storage to meet its Extraordinary Supply Needs as well as the needs of the agencies to which IRWD has committed shared water supply reliability, then IRWD will consider selling a portion of its banked supplies in dry years to offset its capital investment in the water banking projects. Such sales would consider

existing regional storage levels, current water supply conditions, IRWD's demands for imported water and expectations for future water supplies.

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