

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

December 13, 2021

CALL TO ORDER 5:00 p.m.

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

This meeting will be held in-person at the District’s headquarters located at 15600 Sand Canyon Avenue, Irvine, California. The meeting will also be broadcasted via Webex for those wanting to observe the meeting virtually.

To observe this meeting virtually, please join online using the link and information below:

Via web:

<https://irwd.webex.com/irwd/j.php?MTID=m47587ab4105643fd8abb3aed9e23984c>

Number (Access Code): 146 824 2571

Meeting Password: PieDp6e94Zv

PLEASE NOTE: Webex observers of 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. Observers joining the meeting while the Board is in closed session will receive a notice that the meeting has been locked. They will be able to observe the meeting once the closed session has concluded.

PUBLIC COMMENT NOTICE

Public comments are limited to three minutes per speaker on each subject. If you wish to address the Board of Directors on any item, you may attend the meeting in person and submit a “speaker slip” to the Secretary. Forms are provided outside of IRWD’s Board Room. If attending via Webex, please submit your comment via the “chat” feature and your remarks will be read into the record at the meeting. You may also submit a public comment in advance of the meeting by emailing comments@irwd.com before 12:00 p.m. on Monday, December 13, 2021.

COMMUNICATIONS TO THE BOARD

1. Written:
2. Oral:
3. ITEMS RECEIVED TOO LATE TO BE AGENDIZED

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

PUBLIC HEARING

4. 2021 REDISTRICTING CRITERIA AND THE COMPOSITION OF REDISTRICTED DIVISIONS

Recommendation: Receive and file staff's presentation and discuss the criteria to be used by the District in the drawing of proposed director division boundaries.

CONSENT CALENDAR, ITEMS 5-14 (Next Resolution No. 2021-25)

5. BOARD MEETING MINUTES

Recommendation: That the minutes of the November 22, 2021, 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 Douglas Reinhart, Peer Swan, and John Withers, as described.

7. NOVEMBER 2021 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 November 2021 summary of Payroll ACH payments in the total amount of \$2,412,671, and approve the November 2021 accounts payable disbursement summary of Warrants 422575 through 423099, Workers' Compensation distributions, wire transfers, payroll withholding distributions and voided checks in the total amount of \$13,267,002.

8. IRWD INVESTMENT POLICY FOR 2022

Recommendation: That the Board adopt a resolution approving an investment policy and authorizing the Treasurer and Assistant Treasurers to invest and reinvest funds of the District of each of its Improvement Districts and to sell and exchange securities.

9. AMENDMENT AND RESTATEMENT OF THE 401(A) PURCHASE PENSION PLAN

Recommendation: That the Board approve to amend the District's 401(a) Money Purchase Plan to include the required language related to the additional contribution type of mandatory excess accrual contributions.

Reso. 2021-

CONSENT CALENDAR, ITEMS 5-14 (CONTINUED) (Next Resolution No. 2021-25)

10. REVISED PERSONNEL POLICY UPDATE

Recommendation: That the Board adopt a resolution superseding Resolution No. 2021-2 and establish Revised Personnel Policies and Procedures.

Reso. 2021-

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

Recommendation: That the Board adopt a resolution rescinding Resolution No. 2021-21 and adopting a revised Schedule of Positions and Salary Rate Ranges.

Reso. 2021-

12. MICHELSON WATER RECYCLING PLANT BIOSOLIDS AND ENERGY RECOVERY FACILITIES FINAL ACCEPTANCE

Recommendation: That the Board authorize a budget increase in the amount of \$900,000, from \$265,542,100 to \$266,442,100, accept construction of the Biosolids and Energy Recovery Facilities, 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 for Project 04286.

13. ADDENDUM NO. 2 TO INITIAL STUDY / MITIGATED NEGATIVE DECLARATION FOR DOMESTIC WATER RESERVOIRS PROJECT

Recommendation: That the Board approve the proposed Addendum No. 2 to the Final Initial Study/Mitigated Negative Declaration for the reservoir management system, chlorine analyzers and reservoir mixers/samplers at domestic water reservoirs project, including the determinations set forth in Addendum No. 2; approve the modifications to the project; and authorize staff to file a Notice of Determination.

14. 2022 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, 2022, to December 31, 2022, and a not-to-exceed value of \$1,050,000.

ACTION CALENDAR

15. PFAS TREATMENT UPDATE AND SHALLOW GROUNDWATER UNIT
PFAS TREATMENT SYSTEM CONSULTANT SELECTION

Recommendation: That the Board authorize the General Manager to execute a Professional Services Agreement with Tetra Tech in the amount of \$348,000 for engineering design services for the SGU PFAS Treatment System, Project 11834.

16. FY 2020-21 COMPREHENSIVE ANNUAL FINANCIAL REPORT

Recommendation: That the Board approve the comprehensive audit report for the fiscal year ended June 30, 2021.

17. ANNUAL BOARD OF DIRECTORS' FEES

Recommendation: That the Board either accept, decline or defer the five (5%) percent compensation increase for calendar year 2022.

18. ELECTION OF OFFICERS FOR 2022

Recommendation: That an election be conducted for the President and Vice President of the Board of Director of the Irvine Ranch Water District for 2022.

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.

19. General Manager's Report

20. Receive oral update(s) from District liaison(s) regarding communities within IRWD's service area and provide information on relevant community events.

21. Directors' Comments

22. 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.


OTHER BUSINESS (CONTINUED)

23. Open Session

24. 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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December 13, 2021
Prepared and
submitted by: C. Compton
Approved by: Paul A. Cook 

PUBLIC HEARING

2021 REDISTRICTING CRITERIA
AND THE COMPOSITION OF REDISTRICTED DIVISIONS

SUMMARY:

Every 10 years, local governments with by-division elections must redistrict and redraw their division boundaries using the new census data to reflect how local populations have changed, and to ensure that the divisions are, as far as practicable, equal in population. In California, Elections Code Sections 22000-22002 govern how special districts, such as IRWD, redistrict after each federal decennial census. The IRWD Board of Directors is responsible for approving new division boundaries which, once approved, will become effective for the next election of the IRWD Board of Directors in November 2022.

The public hearing is being held before the drawing of a draft map or maps of proposed division boundaries. The purposes of the hearing are: 1) to invite and solicit public comment on the criteria for and the composition of the redistricted divisions, and 2) for the Board of Directors to discuss the criteria to be used by the District in the drawing of proposed Director division boundaries.

RECOMMENDED HEARING PROCEDURE:

President: Declare the Board meeting of December 13, 2021, to be the time and place for a hearing on the redistricting of the Irvine Ranch Water District Board of Directors Division Boundaries, and to receive public comments on the on the criteria for and the composition of the redistricted divisions. Ask the Board Secretary to announce how the hearing was noticed.

Secretary: The public hearing was noticed by publication in the *Orange County Register* on November 28, 2021, and December 5, 2021; by publication in Spanish in the *Excelsior Unidos* on November 26, 2021, and December 3, 2021; by publication in Korean in the *Korea Times* on November 26, 2021, and December 3, 2021; by publication in Traditional Chinese in the *World Journal* on November 28, 2021, and December 5, 2021; by publication in Farsi in *Hafteh Bazaar* on November 26, 2021, and December 3, 2021; by electronic posting in English, Farsi, Korean, Traditional Chinese, and Spanish on the IRWD website, which can be translated into approximately 20 languages; and by physical posting at IRWD's headquarters. The Board Secretary presents affidavits of posting and proof of publication to the Board related to the hearing.

President: Ask the Board for a motion to receive and file the Affidavit of Posting and Proof of Publication

- President: Request staff to describe the nature of the proceedings and present to the Board.
- President: Inquire of the Secretary whether there have been any written communications.
- Secretary: Respond.
- President: Inquire whether there is any person present who wishes to provide comments.
- President: Inquire whether there are any comments or questions from members of the Board of Directors. After comments or questions, state that the hearing will be closed.
- Board: RECOMMENDED MOTION: RECEIVE AND FILE STAFF'S PRESENTATION.

BACKGROUND:

Prior to 2020, IRWD used an at-large method to elect the members of its Board of Directors. The at-large method allowed for voters from the entire service area to elect each of the five members of the Board of Directors. After undertaking a yearlong public process to evaluate moving from an at-large election process to division-based elections, the IRWD Board of Directors voted to transition the election of the IRWD Board of Directors to division-based elections.

A by-division method divides a service area into separate divisions and allows the voters from each division to elect a member of the Board of Directors for that division. In a by-division method of election, the elected individual serves as the division's representative on the Board and must reside in that division. The November 2020 election was the first election in which the IRWD Board of Directors were elected through division-based elections.

Current IRWD Division Map:

On May 13, 2019, the IRWD Board of Directors adopted the current [IRWD Division Boundary Map](#). The Board Members from Divisions 1 and 4 were elected in 2020 and the Board Members from Divisions 2, 3 and 5 will be elected in 2022.

To help the community better understand the divisions and the division in which each village is located, a reference map that has an overlay of the villages located in each division the [Village Reference Map](#) was made available for the public. The District also made an [Interactive Division Map](#) available to the public.

Statutorily Mandated Process for Evaluating a By-Division Method of Election:

Every 10 years, local governments with by-division elections must redistrict and redraw their division boundaries using the new census data to reflect how local populations have changed, and to ensure that the divisions are, as far as practicable, equal in population.

Elections Code Sections 22000-22002 govern how special districts like IRWD redistrict after each federal decennial census. That process requires, at a minimum, that a special district hold at least two public hearings to discuss division maps, prior to adopting a final redistricted map. The IRWD Board of Directors is responsible for approving new division boundaries which, once approved, will become effective for the next election of the IRWD Board of Directors in November 2022.

Legally Required Factors Considered When Evaluating Division Boundaries:

While a number of federal and state laws govern the drawing of division boundaries, the U.S. Constitution establishes the fundamental principle which governs the drawing of division boundaries. Above all else, the Constitution requires that divisions be equal, or nearly equal, in total population. Federal courts have ruled that this means that the population difference between the most and least populous divisions may not exceed ten percent. California Elections Code section 22000 further states that divisions should be drawn to be, “as far as practicable, equal in population” using the population numbers from the last federal decennial census.

Provided that the equality in population, based on the last decennial census, requirement is met, the Elections Code also allows for consideration of: (1) topography, (2) geography, (3) cohesiveness, contiguity, integrity, and compactness of territory, and (4) communities of interests of the division” when determining where division boundaries are placed.

Staff will present proposed criteria for the Board’s consideration and for use by the District when redrawing proposed director division boundaries. Staff will also provide a summary of the census data on the population characteristics of the IRWD’s service area, and a discuss the criteria proposed to be used as the District redraws the division boundaries. Additionally, staff will present information on how the public can submit additional comments on the composition of possible divisions and submit conceptual maps for consideration as the potential division area maps are drawn.

Attached as Exhibit “A” is a copy of the summary of Existing Demographic Conditions for Irvine Ranch Water District. The draft PowerPoint presentation slides staff will present are provided as Exhibit “B”.

FISCAL IMPACTS:

The District is incurring costs of a demographer and special legal counsel in order to redistricting division boundaries.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

This item was not reviewed by a Committee.

RECOMMENDATION:

RECEIVE AND FILE STAFF'S PRESENTATION.

LIST OF EXHIBITS:

Exhibit "A" – Existing Demographic Conditions for Irvine Ranch Water District

Exhibit "B" – Draft PowerPoint Presentation

Existing Conditions for Irvine Ranch Water District

Table 1. Population by Race/Ethnicity for IRWD

	Number	Percent
2020 Total Population	447,168	100.00%
Hispanic or Latino of any Race	62,069	13.90%
Non-Hispanic White	175,740	39.30%
Non-Hispanic Black or African-American	8,665	1.90%
Non-Hispanic American Indian and Alaska Native	502	0.10%
Non-Hispanic Asian	172,280	38.50%
Non-Hispanic Native Hawaiian and Pacific Islander	516	0.10%
Non-Hispanic Some Other Race	2,478	0.60%
Non-Hispanic Two or More Races	24,918	5.60%
2020 Population 18 Years and Older	353,052	100.00%
Hispanic or Latino of any Race	47,113	13.30%
Non-Hispanic White	147,004	41.60%
Non-Hispanic Black or African-American	7,048	2.00%
Non-Hispanic American Indian and Alaska Native	364	0.10%
Non-Hispanic Asian	133,716	37.90%
Non-Hispanic Native Hawaiian and Pacific Islander	410	0.10%
Non-Hispanic Some Other Race	1,806	0.50%
Non-Hispanic Two or More Races	15,591	4.40%
2019 Citizen Voting Age Population (CVAP)	261,914	100.00%
Hispanic or Latino of any Race	32,085	12.30%
Non-Hispanic White	139,512	53.40%
Non-Hispanic Black or African-American	4,783	1.80%
Non-Hispanic American Indian and Alaska Native	464	0.20%
Non-Hispanic Asian	75,943	29.10%
Non-Hispanic Native Hawaiian and Pacific Islander	309	0.10%
Non-Hispanic Two or More Races	7,975	3.10%

Sources: 2020 Decennial Census P.L. 94-171 Redistricting Data;
U.S. Census Bureau American Community Survey 5-year estimates, 2015-2019

The target director division population is calculated by dividing the total population by the number of board members.

Table 2. Target Population for Division Scenarios

Total 2020 Population	Number of Board Members	Target Population for Each Division	Division Majority (50% + 1)	Majority of CVAP (50% +1)
447,168	5	89,434	44,718	26,192

**Irvine Ranch Water District
Summary for Existing Director Divisions**

Table 3. 2020 Census Total Population by Race/Ethnicity

2019 Division	Total Population	Hispanic or Latino of any Race	Non-Hispanic White	Non-Hispanic Black or African-American	Non-Hispanic American Indian or Alaska Native	Non-Hispanic Asian	Non-Hispanic Native Hawaiian or Other Pacific Islander	Non-Hispanic Some Other Race	Non-Hispanic Two or More Races
1	109,202	15,706	43,045	1,496	161	42,298	139	514	5,843
	100.0%	14.4%	39.4%	1.4%	0.1%	38.7%	0.1%	0.5%	5.4%
2	67,103	8,642	23,428	1,294	59	29,561	75	312	3,732
	100.0%	12.9%	34.9%	1.9%	0.1%	44.1%	0.1%	0.5%	5.6%
3	104,558	12,409	38,892	1,809	119	44,874	125	667	5,663
	100.0%	11.9%	37.2%	1.7%	0.1%	42.9%	0.1%	0.6%	5.4%
4	79,927	10,601	30,775	1,672	72	31,706	114	519	4,468
	100.0%	13.3%	38.5%	2.1%	0.1%	39.7%	0.1%	0.6%	5.6%
5	86,378	14,711	39,600	2,394	91	23,841	63	466	5,212
	100.0%	17.0%	45.8%	2.8%	0.1%	27.6%	0.1%	0.5%	6.0%
IRWD TOTAL	447,168	62,069	175,740	8,665	502	172,280	516	2,478	24,918
	100.0%	13.9%	39.3%	1.9%	0.1%	38.5%	0.1%	0.6%	5.6%

Table 4. Difference from 2021 Target Director Division Population of 89,434

Division	Number	Percent	Percentage Spread (Largest - Smallest)
1	19,768	22.10%	47.07%
2	-22,331	-24.97%	
3	15,124	16.91%	
4	-9,507	-10.63%	
5	-3,056	-3.42%	

**Irvine Ranch Water District
Summary for Existing Director Divisions**

Table 5. 2020 Census Population 18 Years and Over by Race/Ethnicity

2019 Division	Total Population 18 and Over	Hispanic or Latino of any Race	Non- Hispanic White	Non- Hispanic Black or African- American	Non-Hispanic American Indian or Alaska Native	Non- Hispanic Asian	Non-Hispanic Native Hawaiian or Other Pacific Islander	Non- Hispanic Some Other Race	Non- Hispanic Two or More Races
1	82,296	11,077	35,246	1,186	128	31,006	116	347	3,190
	100.0%	13.5%	42.8%	1.4%	0.2%	37.7%	0.1%	0.4%	3.9%
2	51,807	6,265	19,406	953	36	22,713	56	223	2,155
	100.0%	12.1%	37.5%	1.8%	0.1%	43.8%	0.1%	0.4%	4.2%
3	80,822	9,046	32,304	1,407	74	33,955	99	473	3,464
	100.0%	11.2%	40.0%	1.7%	0.1%	42.0%	0.1%	0.6%	4.3%
4	63,221	7,755	25,668	1,297	44	25,178	83	385	2,811
	100.0%	12.3%	40.6%	2.1%	0.1%	39.8%	0.1%	0.6%	4.4%
5	74,906	12,970	34,380	2,205	82	20,864	56	378	3,971
	100.0%	17.3%	45.9%	2.9%	0.1%	27.9%	0.1%	0.5%	5.3%
IRWD TOTAL	353,052	47,113	147,004	7,048	364	133,716	410	1,806	15,591
	100.0%	13.3%	41.6%	2.0%	0.1%	37.9%	0.1%	0.5%	4.4%

Source: U.S. Census Bureau 2020 Decennial Census P.L. 94-171 Redistricting Data

**Irvine Ranch Water District
Summary for Existing Director Divisions**

Table 6. Citizen Voting Age Population (CVAP) by Race/Ethnicity, 2015-2019 5-Year Estimates

2019 Division	Total Estimated CVAP	Hispanic or Latino of any Race	Non-Hispanic White	Non-Hispanic Black or African-American	Non-Hispanic American Indian or Alaska Native	Non-Hispanic Asian	Non-Hispanic Native Hawaiian or Other Pacific Islander	Non-Hispanic Two or More Races
1	58,602	7,171	33,848	1,144	183	14,564	32	1,489
	100.0%	12.3%	57.9%	2.0%	0.3%	24.9%	0.1%	2.5%
2	42,674	4,713	18,950	619	0	16,875	75	1,318
	100.0%	11.1%	44.5%	1.5%	0.0%	39.7%	0.2%	3.1%
3	56,954	6,288	29,266	970	85	18,147	2	1,858
	100.0%	11.1%	51.7%	1.7%	0.2%	32.1%	0.0%	3.3%
4	47,470	5,657	25,129	886	74	13,797	172	1,699
	100.0%	11.9%	53.0%	1.9%	0.2%	29.1%	0.4%	3.6%
5	56,214	8,256	32,319	1,164	122	12,560	28	1,611
	100.0%	14.7%	57.7%	2.1%	0.2%	22.4%	0.0%	2.9%
IRWD TOTAL	261,914	32,085	139,512	4,783	464	75,943	309	7,975
	100.0%	12.3%	53.4%	1.8%	0.2%	29.1%	0.1%	3.1%

Source: Statewide Database 2015-2019 Citizen Voting Age Population on 2020 Census Blocks, Revised 9/27/2021
<https://statewidedatabase.org/redistricting2021/counties.html>

Notes: Percentages are calculated from sum of individual categories, not Total Estimated CVAP.

Because this is a special tabulation of data and not part of the standard data products shown on the Census Bureau's data.census.gov website, these estimates are rounded. Therefore, individual categories may not exactly add to the total.

For example, the sum of each of the race groups for non-Hispanics may not be the same as the estimate given for non-Hispanics. These estimates will not match counts from the 2020 Census.

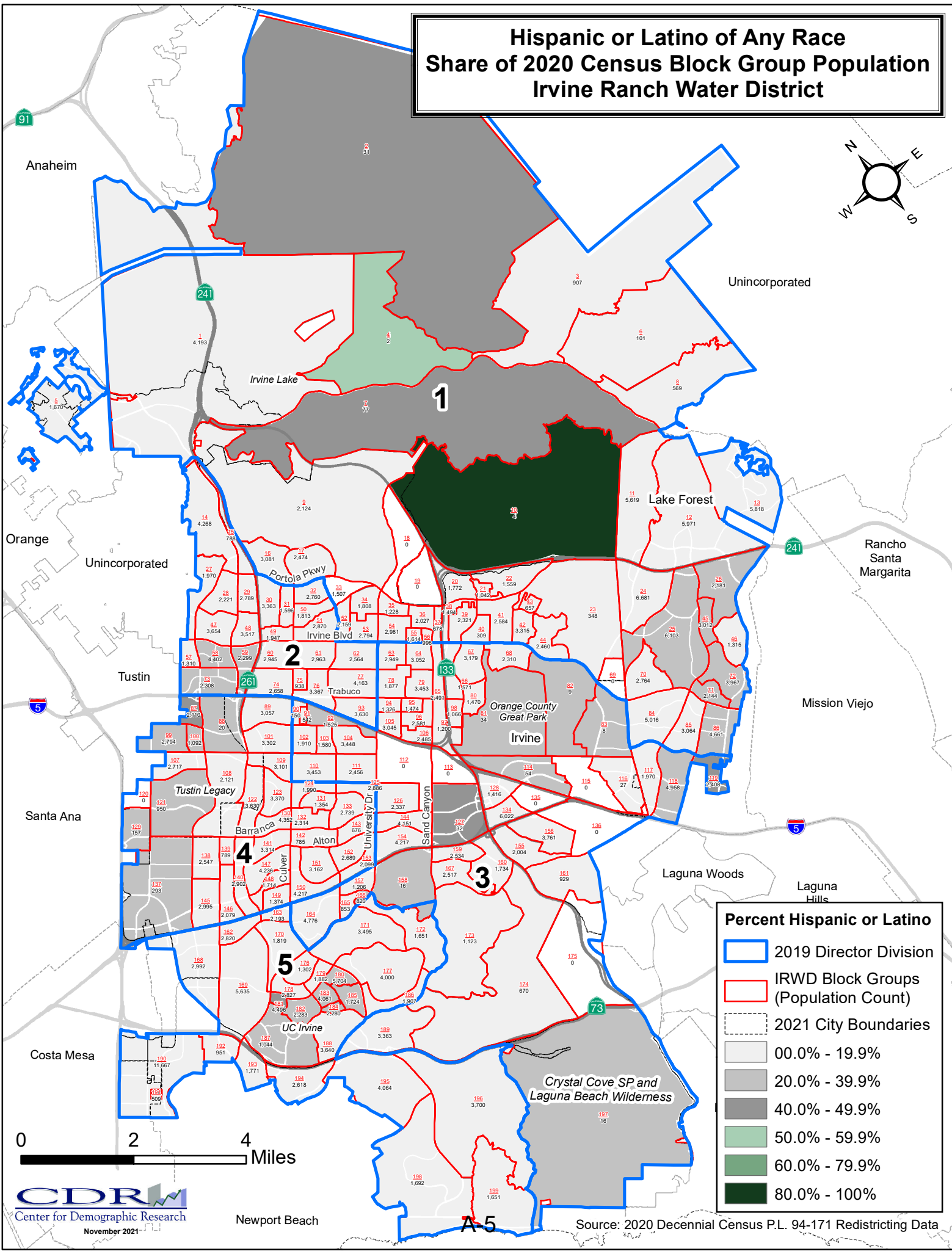
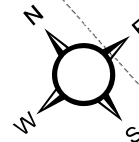
The original data source for the Citizen Voting Age Population (CVAP) is the American Community Survey (ACS). The ACS is an ongoing survey by the U.S. Census Bureau sent to approximately 250,000 households each month.

The ACS estimates used to develop these data were collected from January 1, 2015 to December 31, 2019 utilizing the 2010 Census block groups, which were disaggregated to the 2020 Census blocks by the Statewide Database.

For more information about the CVAP products, visit <https://www.census.gov/programs-surveys/decennial-census/about/voting-rights/cvap.html> and

https://www2.census.gov/programs-surveys/decennial/rdo/technical-documentation/special-tabulation/CVAP_2015-2019_ACS_documentation.pdf

Hispanic or Latino of Any Race Share of 2020 Census Block Group Population Irvine Ranch Water District

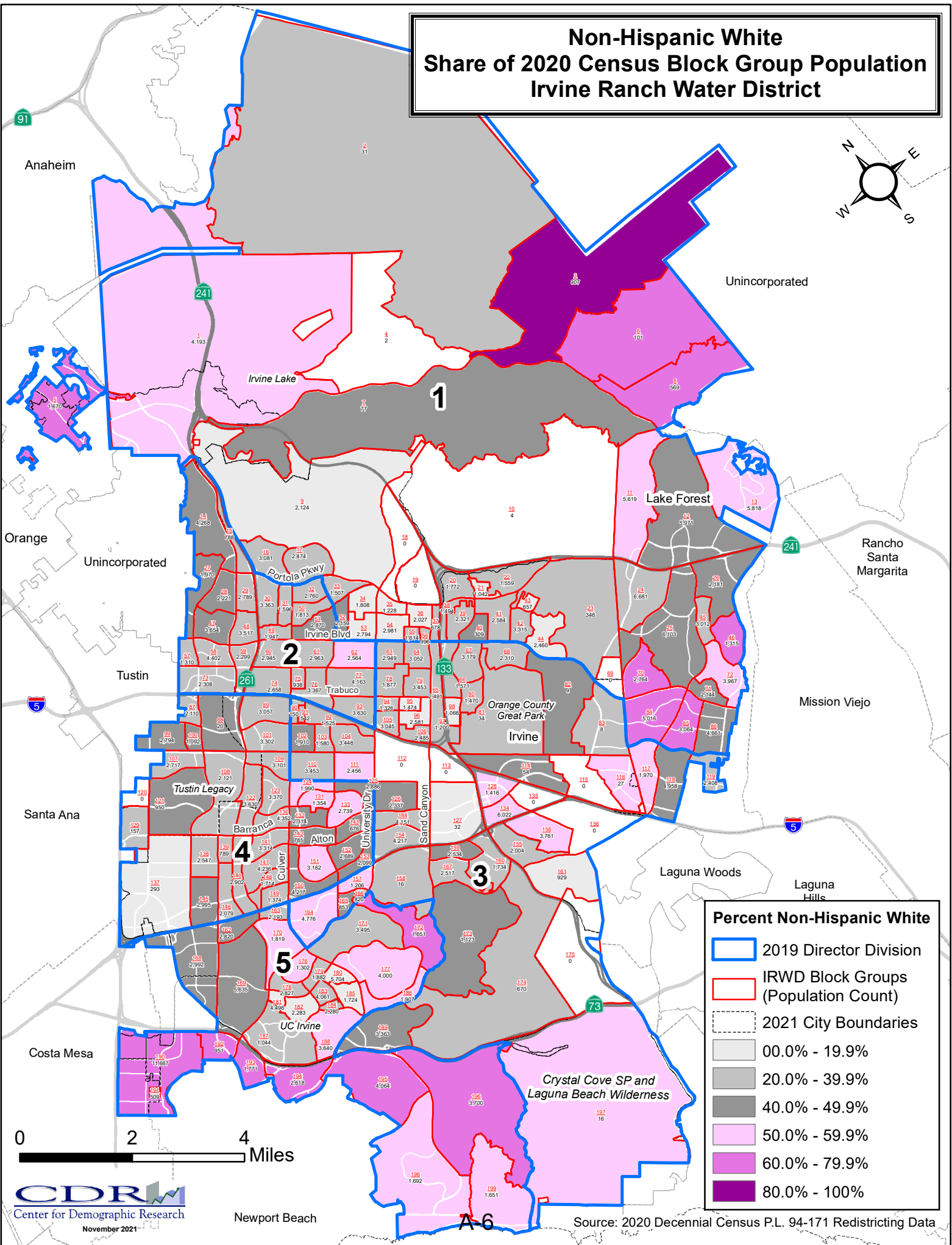
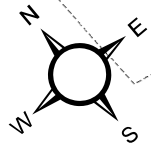


Percent Hispanic or Latino

- 2019 Director Division
- IRWD Block Groups (Population Count)
- 2021 City Boundaries
- 00.0% - 19.9%
- 20.0% - 39.9%
- 40.0% - 49.9%
- 50.0% - 59.9%
- 60.0% - 79.9%
- 80.0% - 100%

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Miles

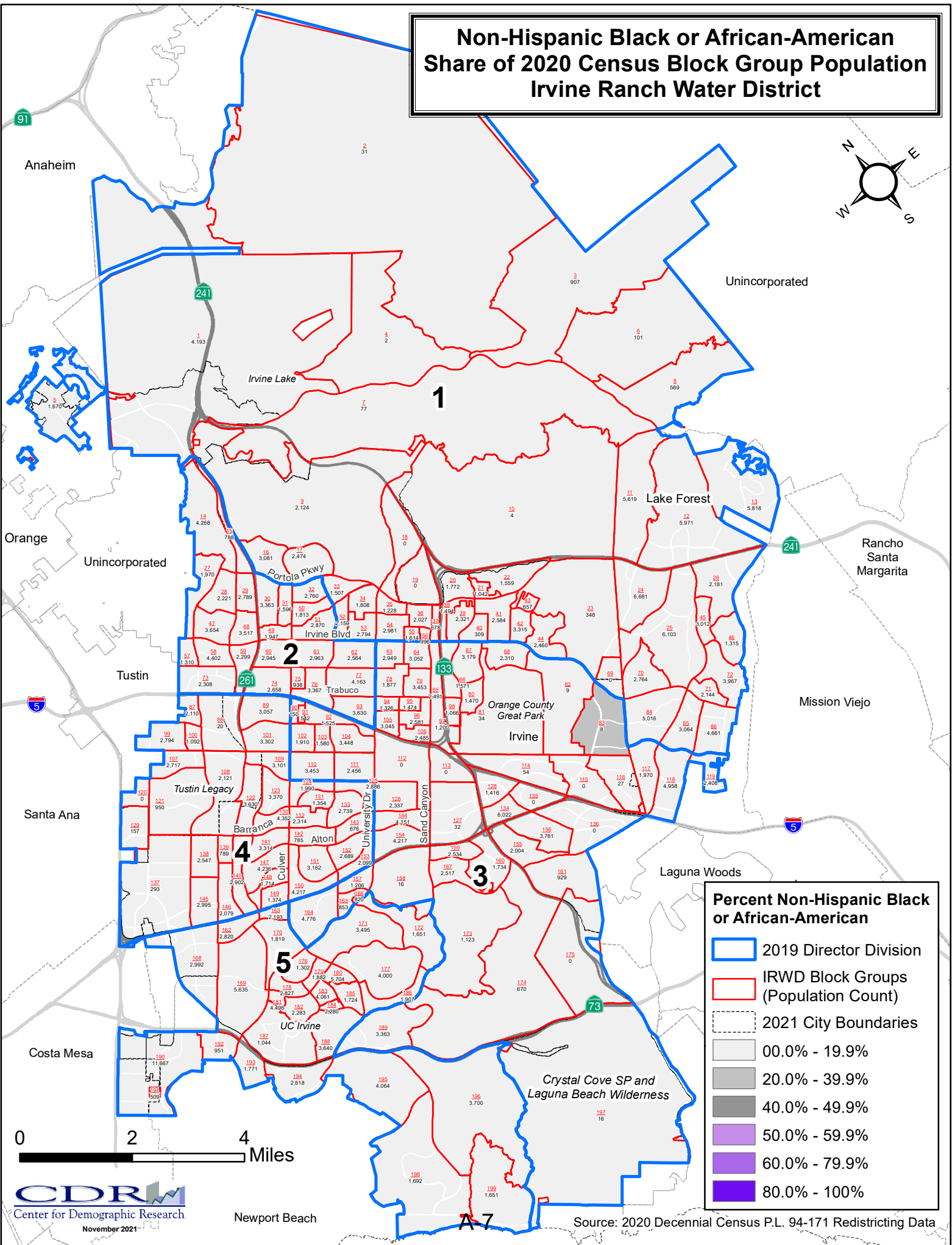
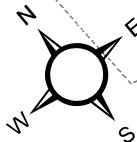
Non-Hispanic White Share of 2020 Census Block Group Population Irvine Ranch Water District



Percent Non-Hispanic White

- 2019 Director Division
- IRWD Block Groups (Population Count)
- 2021 City Boundaries
- 00.0% - 19.9%
- 20.0% - 39.9%
- 40.0% - 49.9%
- 50.0% - 59.9%
- 60.0% - 79.9%
- 80.0% - 100%

Non-Hispanic Black or African-American Share of 2020 Census Block Group Population Irvine Ranch Water District

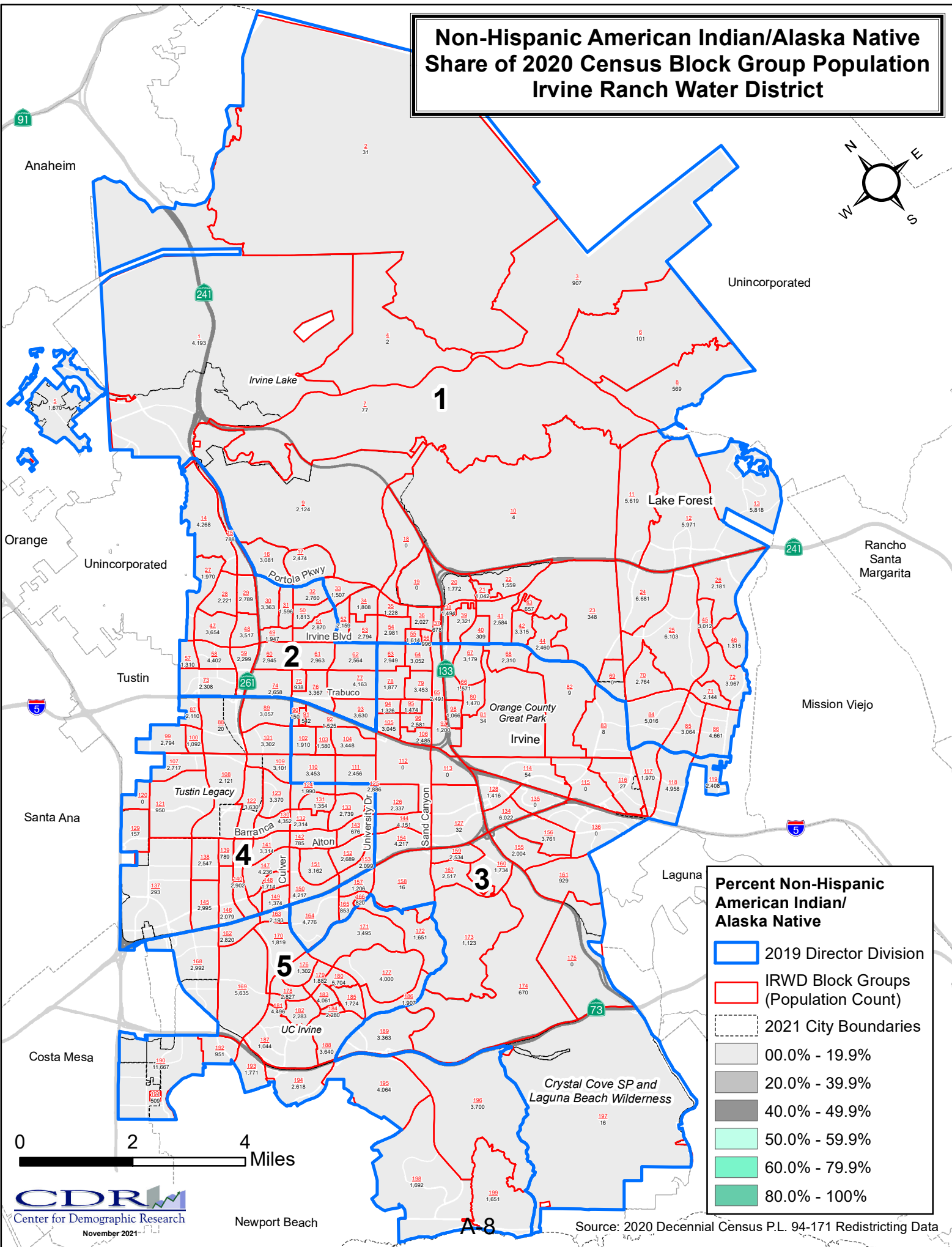
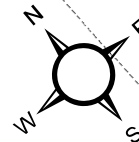


Percent Non-Hispanic Black or African-American

- 2019 Director Division
- IRWD Block Groups (Population Count)
- 2021 City Boundaries
- 00.0% - 19.9%
- 20.0% - 39.9%
- 40.0% - 49.9%
- 50.0% - 59.9%
- 60.0% - 79.9%
- 80.0% - 100%

0 2 4 Miles

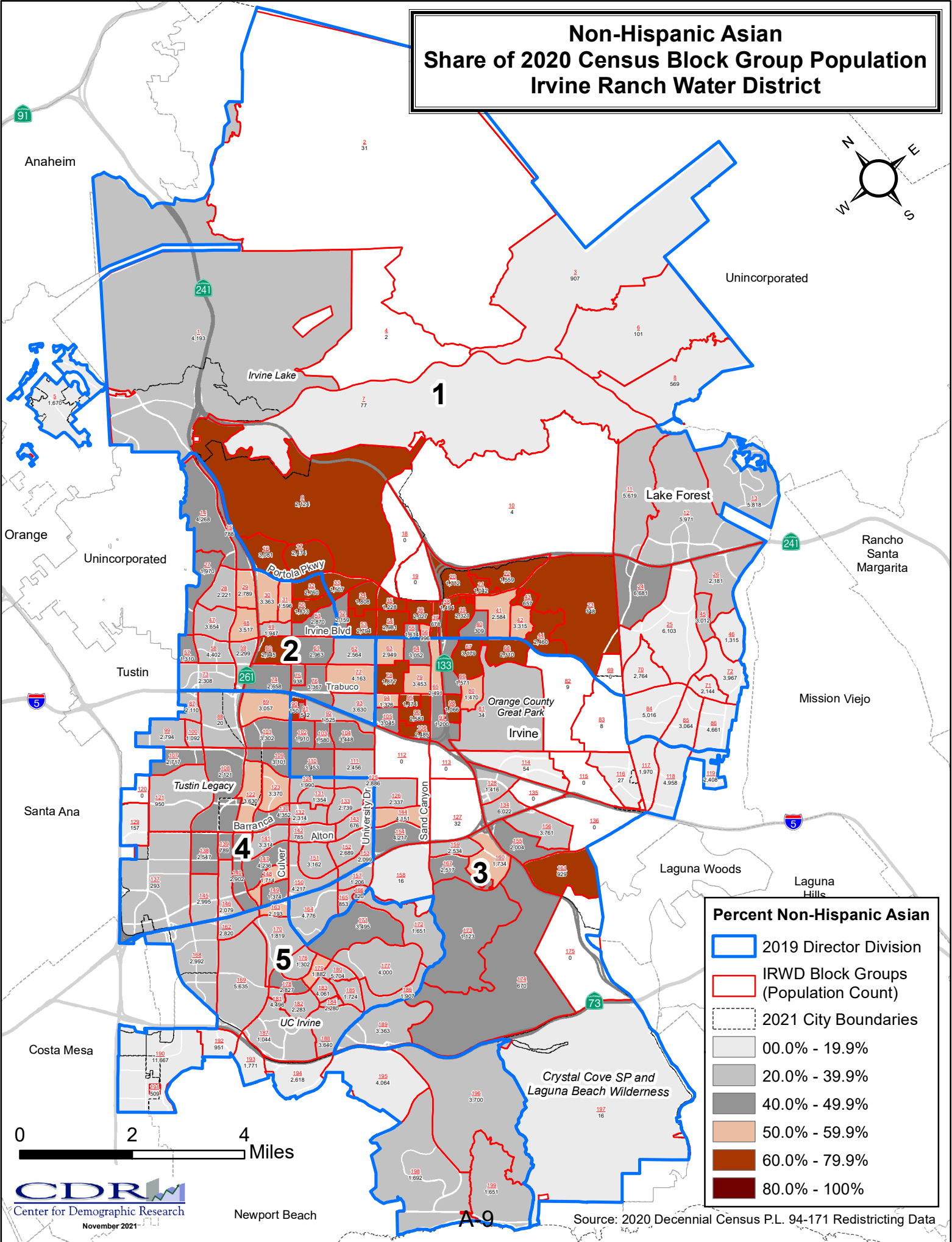
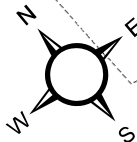
Non-Hispanic American Indian/Alaska Native Share of 2020 Census Block Group Population Irvine Ranch Water District



Percent Non-Hispanic American Indian/Alaska Native

- 2019 Director Division
- IRWD Block Groups (Population Count)
- 2021 City Boundaries
- 00.0% - 19.9%
- 20.0% - 39.9%
- 40.0% - 49.9%
- 50.0% - 59.9%
- 60.0% - 79.9%
- 80.0% - 100%

Non-Hispanic Asian Share of 2020 Census Block Group Population Irvine Ranch Water District

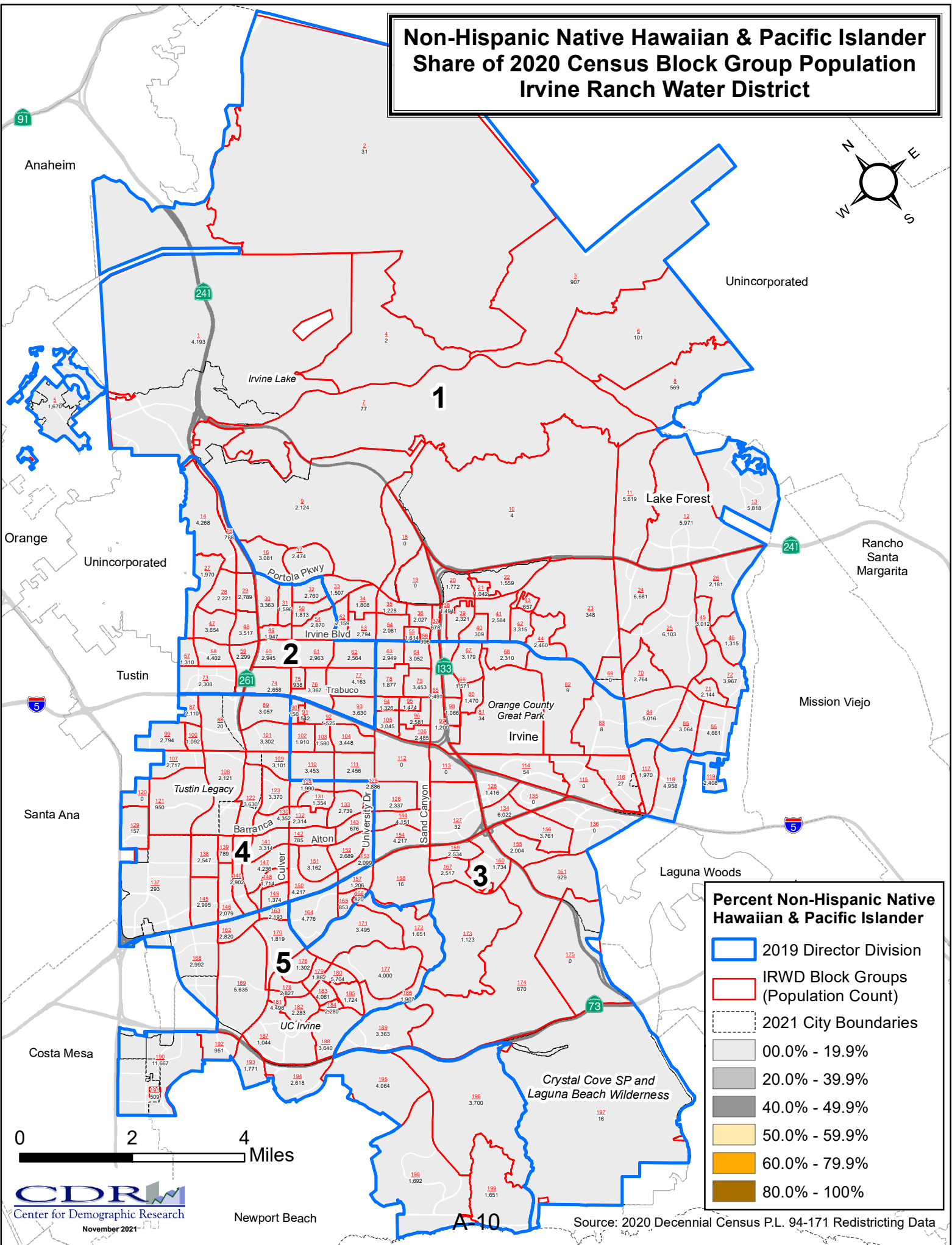
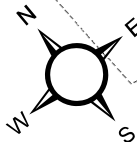


Percent Non-Hispanic Asian

- 2019 Director Division
- IRWD Block Groups (Population Count)
- 2021 City Boundaries
- 00.0% - 19.9%
- 20.0% - 39.9%
- 40.0% - 49.9%
- 50.0% - 59.9%
- 60.0% - 79.9%
- 80.0% - 100%

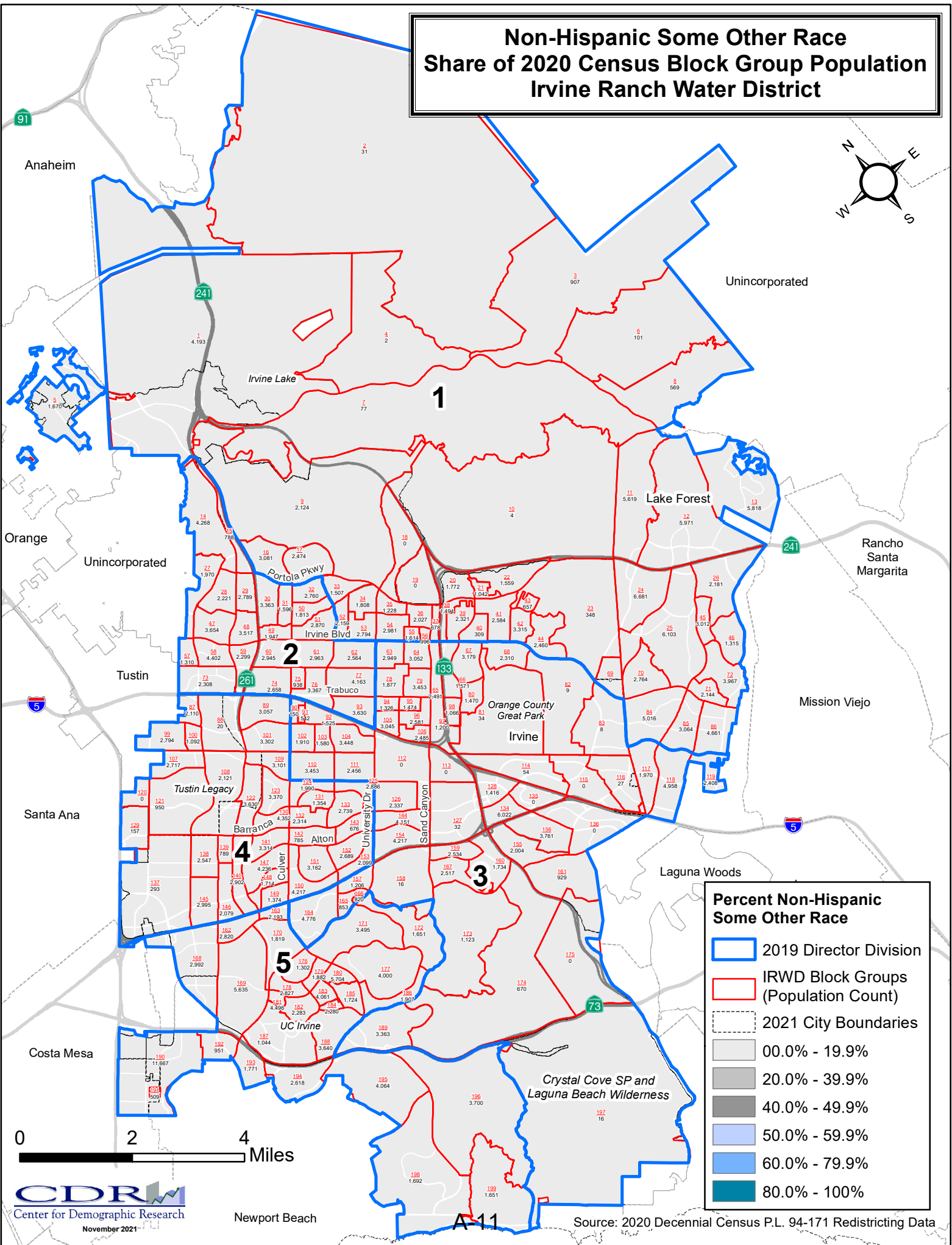
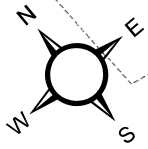
0 2 4 Miles

Non-Hispanic Native Hawaiian & Pacific Islander Share of 2020 Census Block Group Population Irvine Ranch Water District



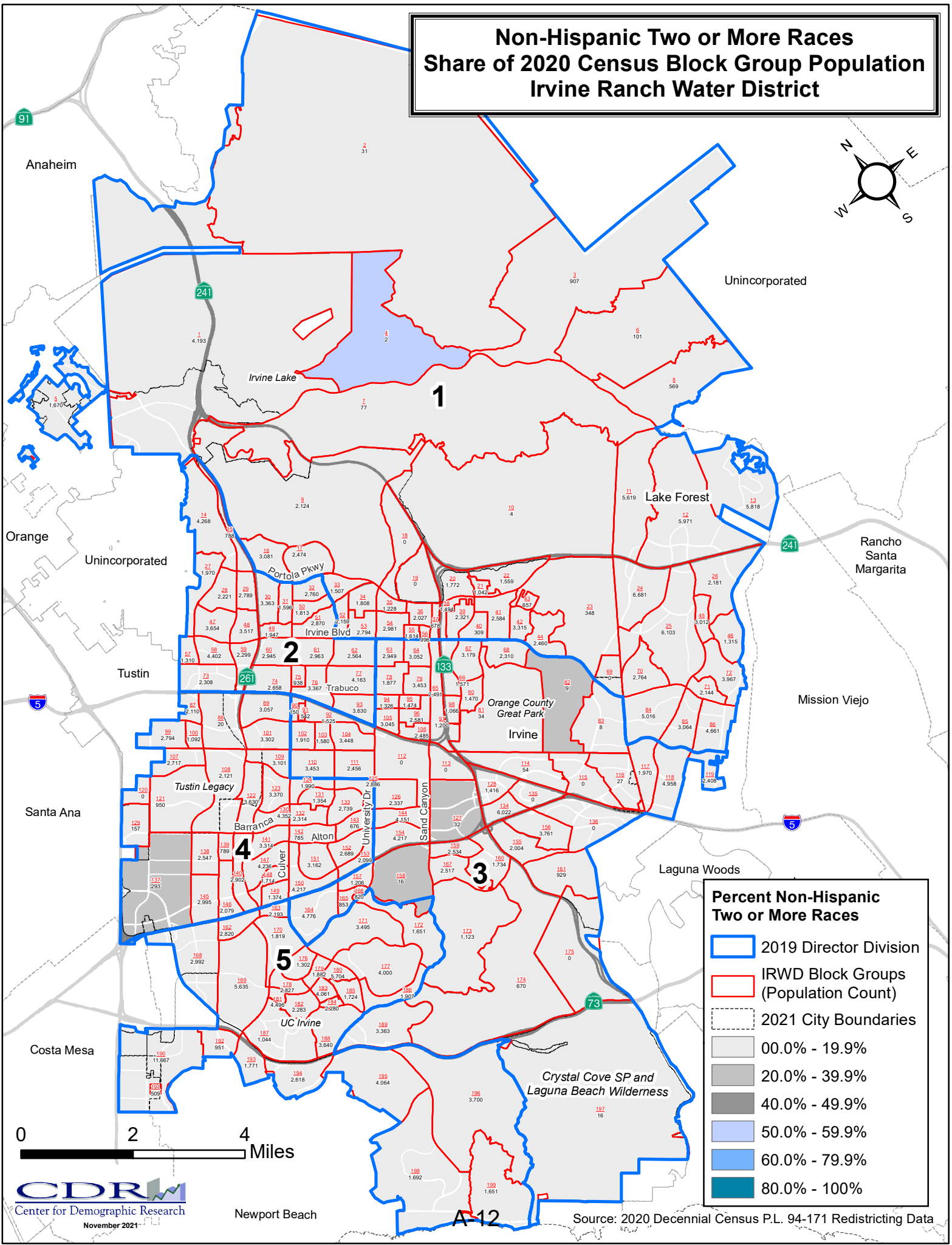
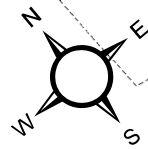
0 2 4 Miles

Non-Hispanic Some Other Race Share of 2020 Census Block Group Population Irvine Ranch Water District



0 2 4 Miles

Non-Hispanic Two or More Races Share of 2020 Census Block Group Population Irvine Ranch Water District

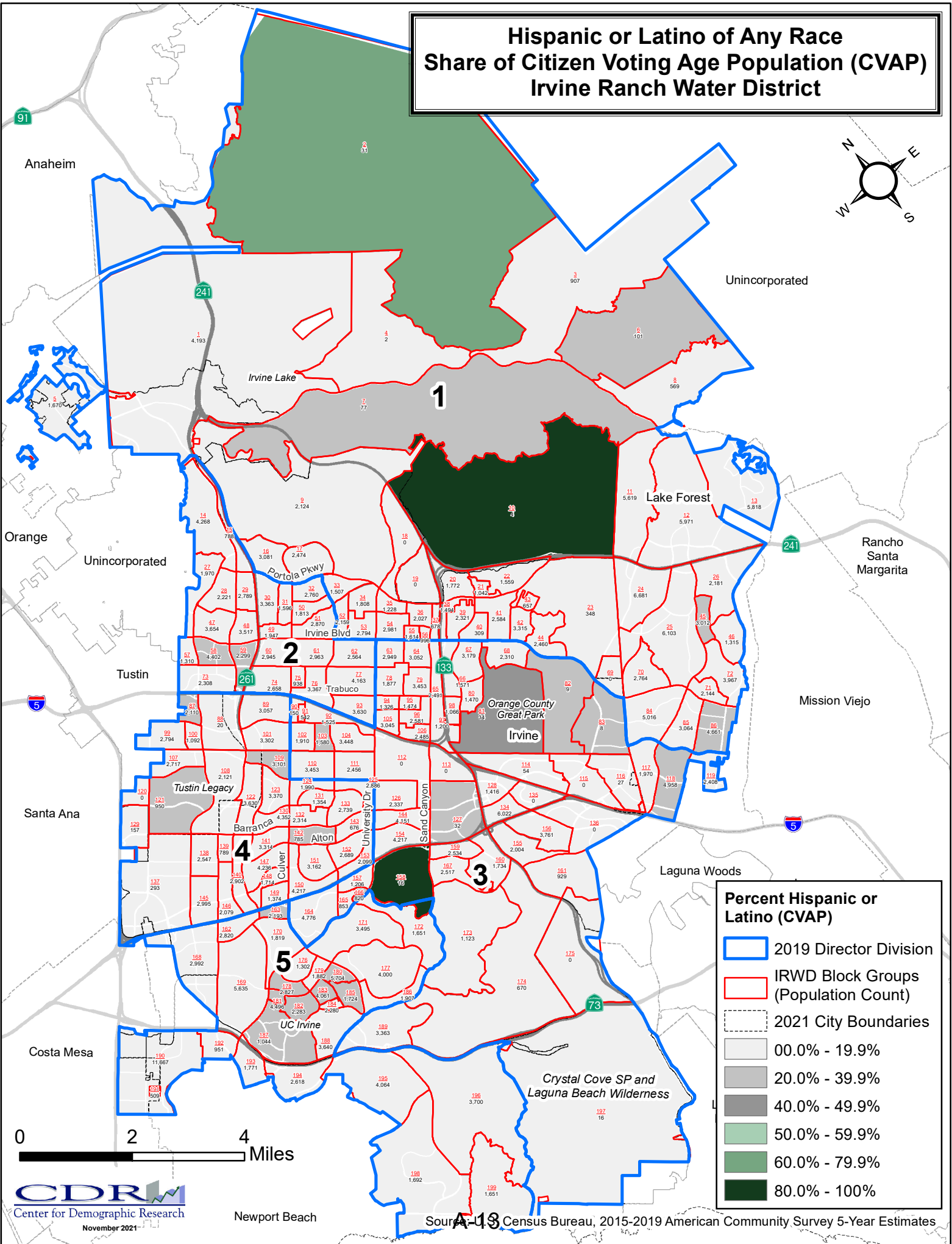
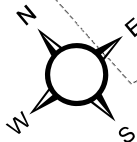


Percent Non-Hispanic Two or More Races

- 2019 Director Division
- IRWD Block Groups (Population Count)
- 2021 City Boundaries
- 00.0% - 19.9%
- 20.0% - 39.9%
- 40.0% - 49.9%
- 50.0% - 59.9%
- 60.0% - 79.9%
- 80.0% - 100%

0 2 4
Miles

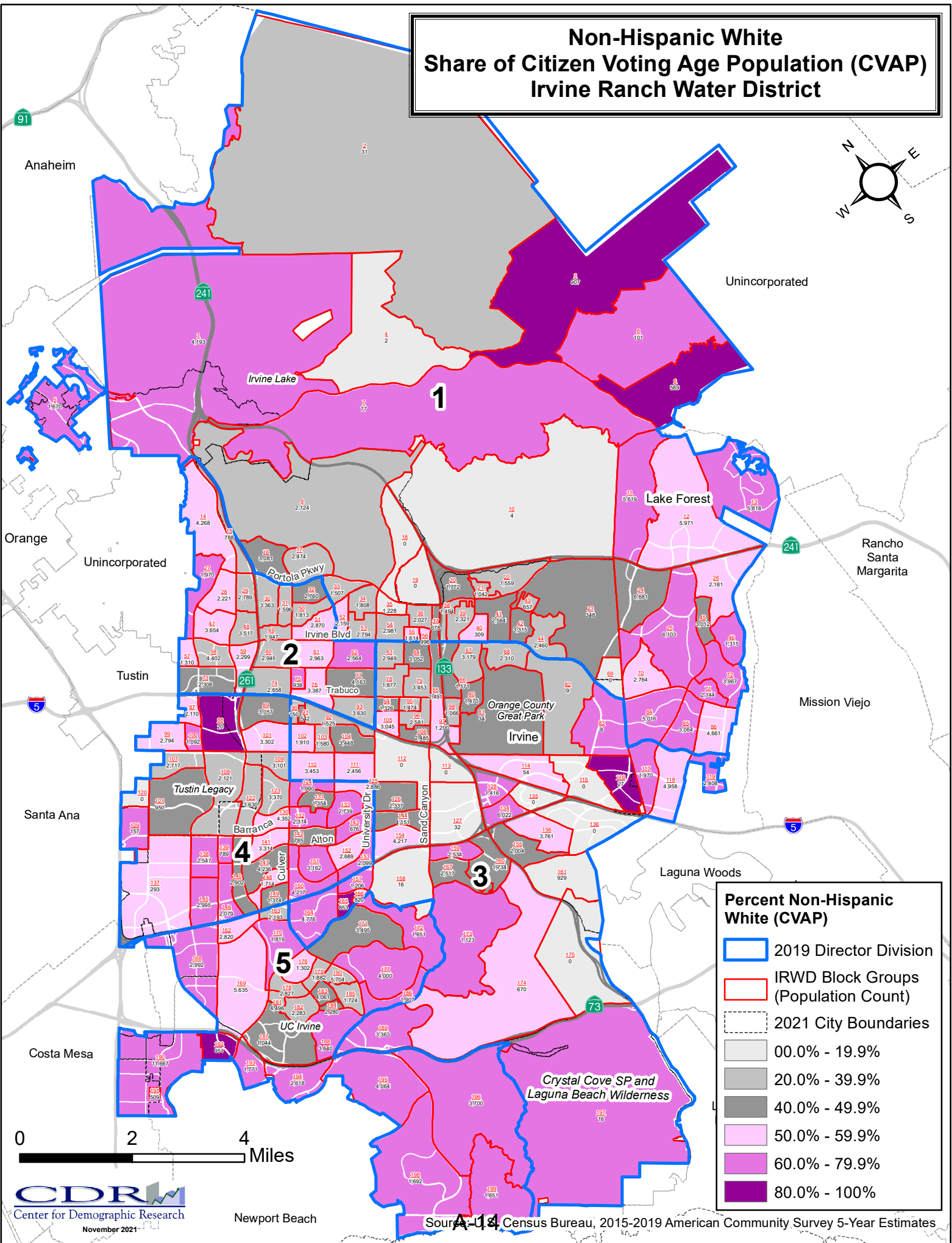
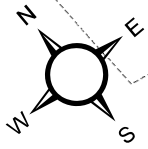
Hispanic or Latino of Any Race Share of Citizen Voting Age Population (CVAP) Irvine Ranch Water District



Percent Hispanic or Latino (CVAP)

- 2019 Director Division
- IRWD Block Groups (Population Count)
- 2021 City Boundaries
- 00.0% - 19.9%
- 20.0% - 39.9%
- 40.0% - 49.9%
- 50.0% - 59.9%
- 60.0% - 79.9%
- 80.0% - 100%

Non-Hispanic White Share of Citizen Voting Age Population (CVAP) Irvine Ranch Water District

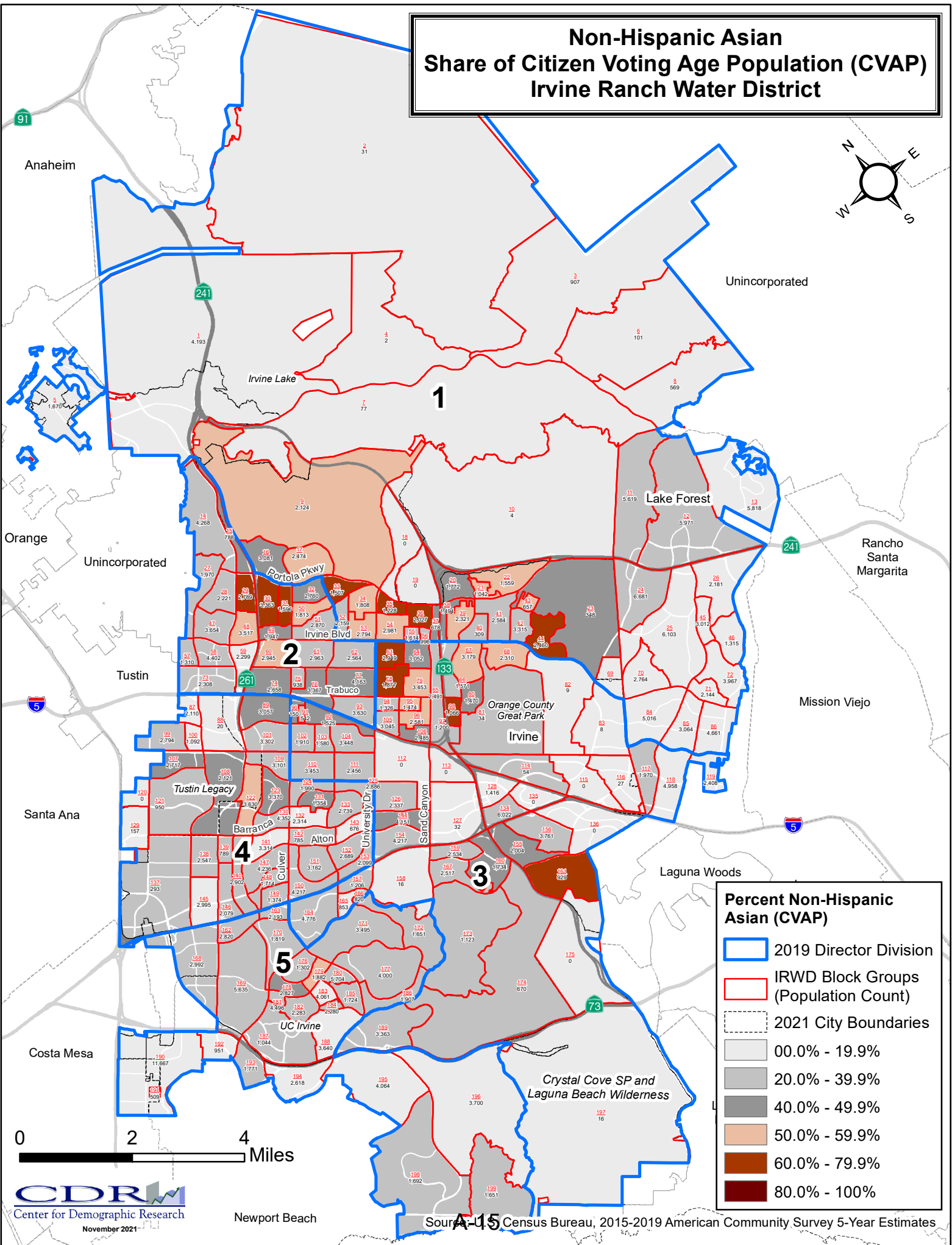
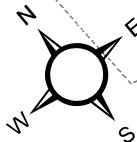


Percent Non-Hispanic White (CVAP)

- 2019 Director Division
- IRWD Block Groups (Population Count)
- 2021 City Boundaries
- 00.0% - 19.9%
- 20.0% - 39.9%
- 40.0% - 49.9%
- 50.0% - 59.9%
- 60.0% - 79.9%
- 80.0% - 100%

0 2 4
Miles

Non-Hispanic Asian Share of Citizen Voting Age Population (CVAP) Irvine Ranch Water District



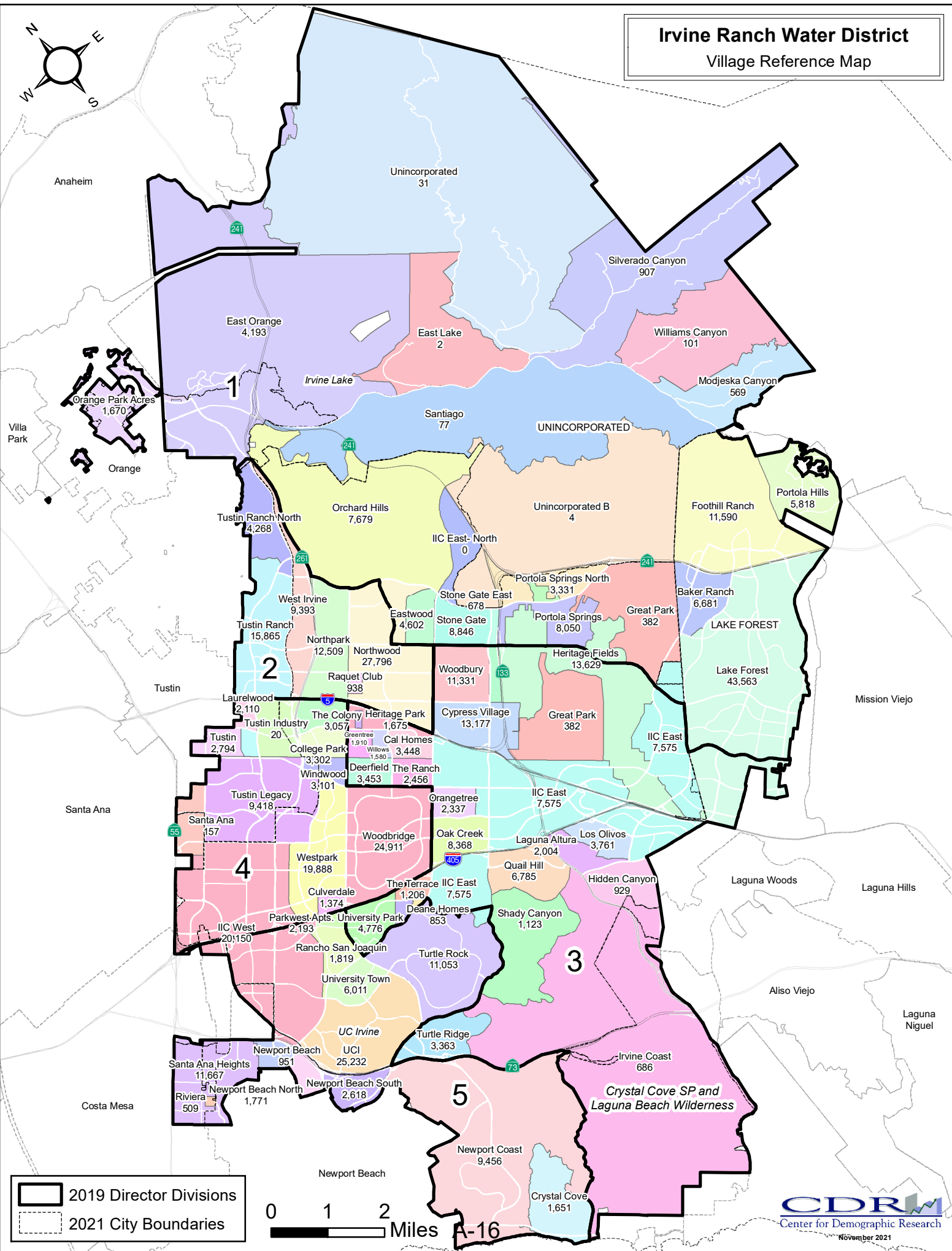
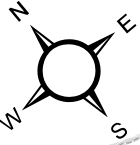
Percent Non-Hispanic Asian (CVAP)

- 2019 Director Division
- IRWD Block Groups (Population Count)
- 2021 City Boundaries
- 00.0% - 19.9%
- 20.0% - 39.9%
- 40.0% - 49.9%
- 50.0% - 59.9%
- 60.0% - 79.9%
- 80.0% - 100%

0 2 4
Miles

Irvine Ranch Water District

Village Reference Map



2019 Director Divisions
 2021 City Boundaries

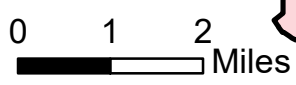
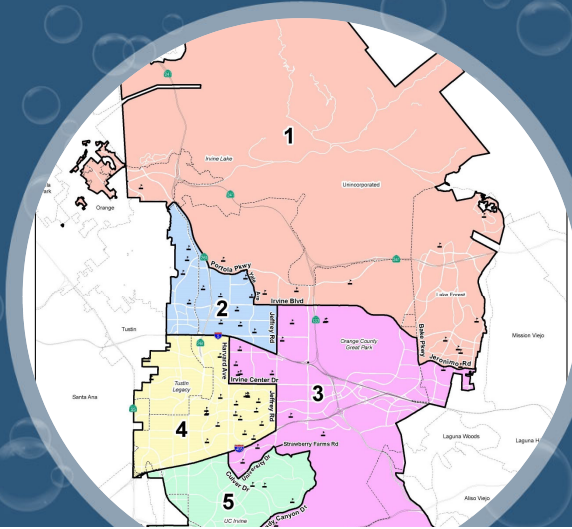


EXHIBIT "B"



Irvine Ranch
WATER DISTRICT

REDISTRICTING PUBLIC HEARING #1:


CRITERIA TO BE USED WHEN DRAWING DIVISION
BOUNDARIES AND THE COMPOSITION OF
DIVISIONS, PRIOR TO THE DRAWING OF MAP(S)

DECEMBER 13, 2021

1

AGENDA

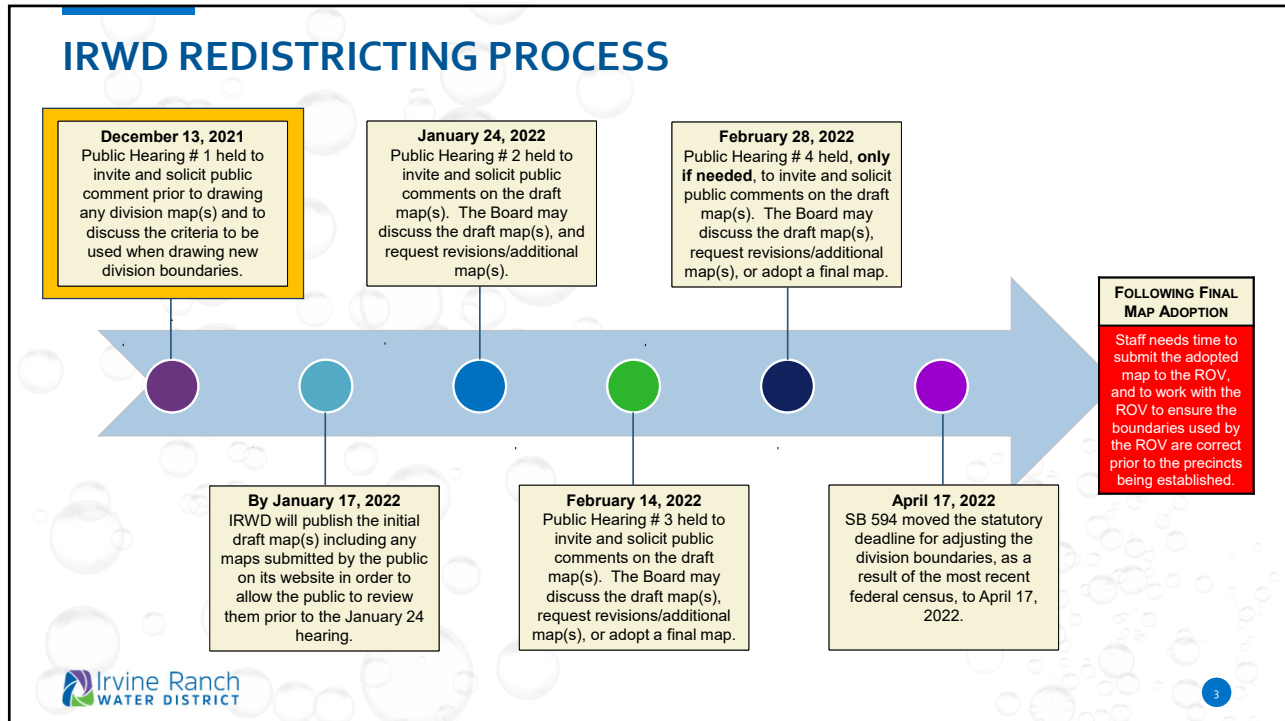
- Review of Redistricting Process & Timeline
- Data and Information Used in Redistricting
- Summary of Census Data
- Criteria to be Used When Drawing Proposed Division Boundaries
- How the Public Can Submit Conceptual Maps & Comments



Irvine Ranch
WATER DISTRICT

2

2



3

DATA & INFORMATION USED IN REDISTRICTING

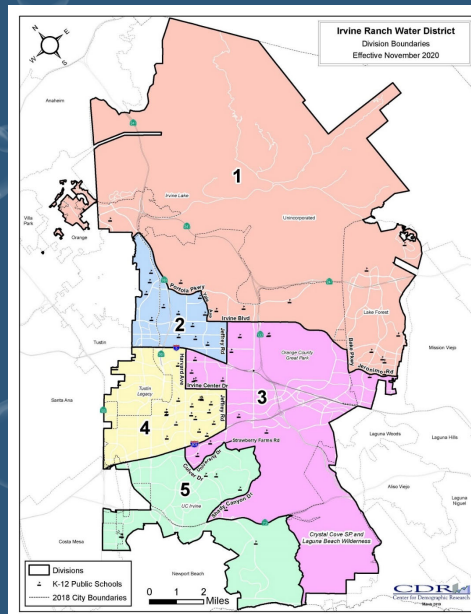
- 2020 Census Public Law 94-171 Redistricting Data
 - ✓ Total Population by race/ethnicity
 - ✓ Total Population 18 and Over by race/ethnicity (voting age group)
- Citizen Voting Age Population from American Community Survey 2015-2019 5-Year Estimates

Complied population data for IRWD's service area is available at:
www.irwd.com/about-us/district-election-process

4

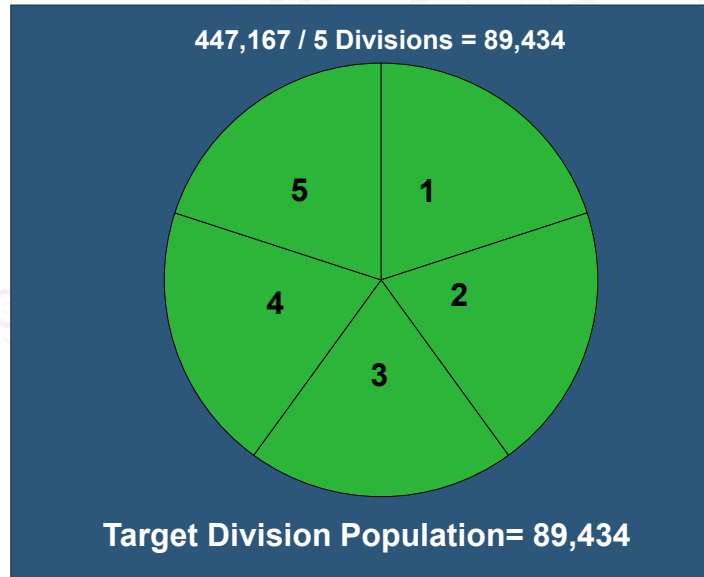
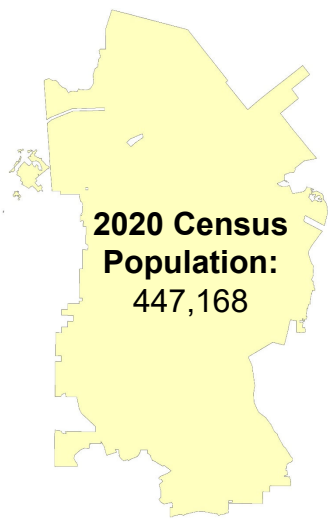
SUMMARY OF EXISTING DIRECTOR DIVISIONS

CURRENT DIVISION BOUNDARIES MAP



5

GOAL IS EQUAL POPULATION BASED ON THE MOST RECENT FEDERAL CENSUS



6

DIFFERENCES WITH TARGET DIVISION POPULATION

Division	Growth 2010-2020		Total 2020 Population	Difference from Target 2020 Population	
	Number	Percent		Number	Percentage
1	43,671	66.64%	109,202	19,768	22.10%
2	82	0.12%	67,103	-22,331	-24.97%
3	38,356	57.94%	104,558	15,124	16.91%
4	10,732	15.51%	79,927	-9,507	-10.63%
5	17,176	24.82%	86,378	-3,056	-3.42%

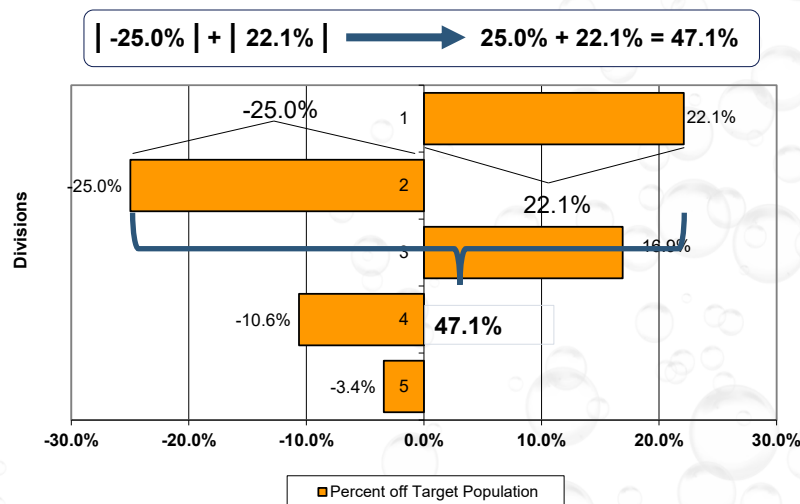
Target Division Population= 89,434



7

7

DIFFERENCES WITH TARGET DIVISION POPULATION



8

8

2020 CENSUS TOTAL POPULATION BY RACE/ETHNICITY

2019 Division	Total Population	Hispanic or Latino of any Race	Non-Hispanic White	Non-Hispanic Black or African-American	Non-Hispanic American Indian or Alaska Native	Non-Hispanic Asian	Non-Hispanic Native Hawaiian or Other Pacific Islander	Non-Hispanic Some Other Race	Non-Hispanic Two or More Races
1	109,202	15,706	43,045	1,496	161	42,298	139	514	5,843
	100.0%	14.4%	39.4%	1.4%	0.1%	38.7%	0.1%	0.5%	5.4%
2	67,103	8,642	23,428	1,294	59	29,561	75	312	3,732
	100.0%	12.9%	34.9%	1.9%	0.1%	44.1%	0.1%	0.5%	5.6%
3	104,558	12,409	38,892	1,809	119	44,874	125	667	5,663
	100.0%	11.9%	37.2%	1.7%	0.1%	42.9%	0.1%	0.6%	5.4%
4	79,927	10,601	30,775	1,672	72	31,706	114	519	4,468
	100.0%	13.3%	38.5%	2.1%	0.1%	39.7%	0.1%	0.6%	5.6%
5	86,378	14,711	39,600	2,394	91	23,841	63	466	5,212
	100.0%	17.0%	45.8%	2.8%	0.1%	27.6%	0.1%	0.5%	6.0%
IRWD TOTAL	447,168	62,069	175,740	8,665	502	172,280	516	2,478	24,918
	100.0%	13.9%	39.3%	1.9%	0.1%	38.5%	0.1%	0.6%	5.6%



Source: U.S. Census Bureau 2020 Decennial Census P.L. 94-171 Redistricting Data

9

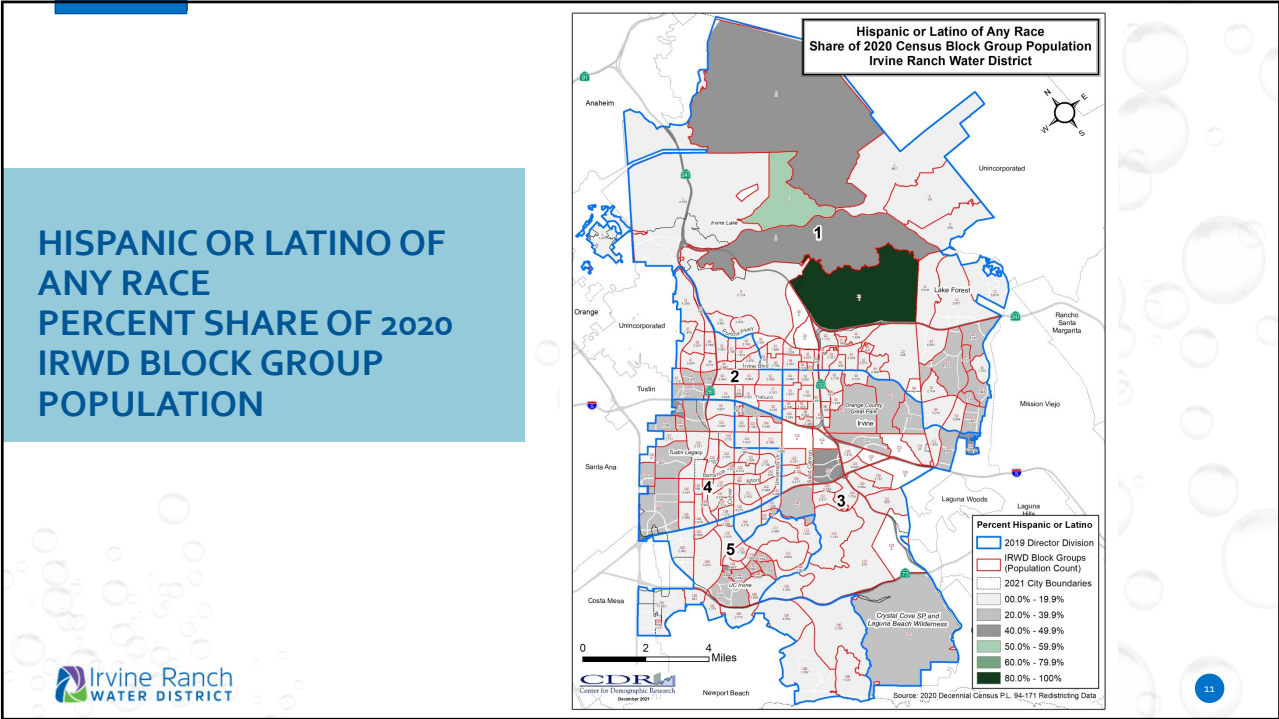
CITIZEN VOTING AGE POPULATION (CVAP) BY RACE/ETHNICITY

2019 Division	Total Population	Hispanic or Latino of any Race	Non-Hispanic White	Non-Hispanic Black or African-American	Non-Hispanic American Indian or Alaska Native	Non-Hispanic Asian	Non-Hispanic Native Hawaiian or Other Pacific Islander	Non-Hispanic Two or More Races
1	58,602	7,171	33,848	1,144	183	14,564	32	1,489
	100.0%	12.3%	57.9%	2.0%	0.3%	24.9%	0.1%	2.5%
2	42,674	4,713	18,950	619	0	16,875	75	1,318
	100.0%	11.1%	44.5%	1.5%	0.0%	39.7%	0.2%	3.1%
3	56,954	6,288	29,266	970	85	18,147	2	1,858
	100.0%	11.1%	51.7%	1.7%	0.2%	32.1%	0.0%	3.3%
4	47,470	5,657	25,129	886	74	13,797	172	1,699
	100.0%	11.9%	53.0%	1.9%	0.2%	29.1%	0.4%	3.6%
5	56,214	8,256	32,319	1,164	122	12,560	28	1,611
	100.0%	14.7%	57.7%	2.1%	0.2%	22.4%	0.0%	2.9%
IRWD TOTAL	261,914	32,085	139,512	4,783	464	75,943	309	7,975
	100.0%	12.3%	53.4%	1.8%	0.2%	29.1%	0.1%	3.1%

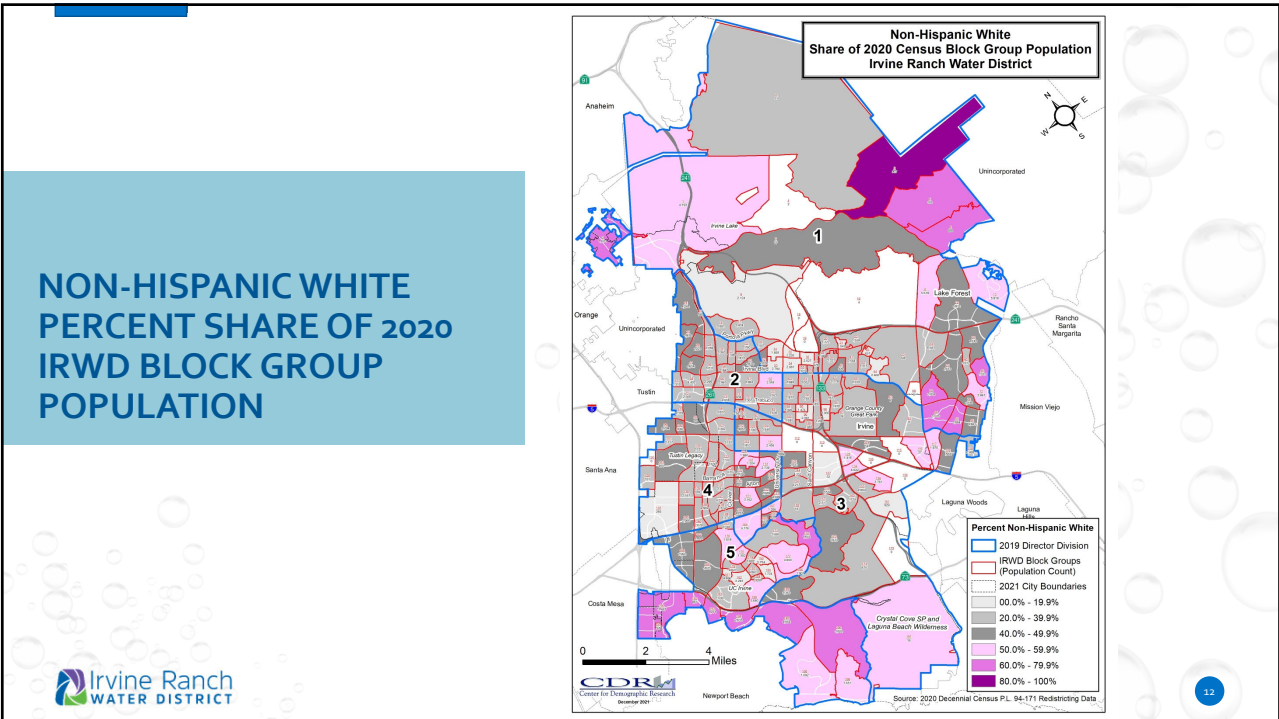


Source: Statewide Database 2015-2019 Citizen Voting Age Population on 2020 Census Blocks, Revised 9/27/2021

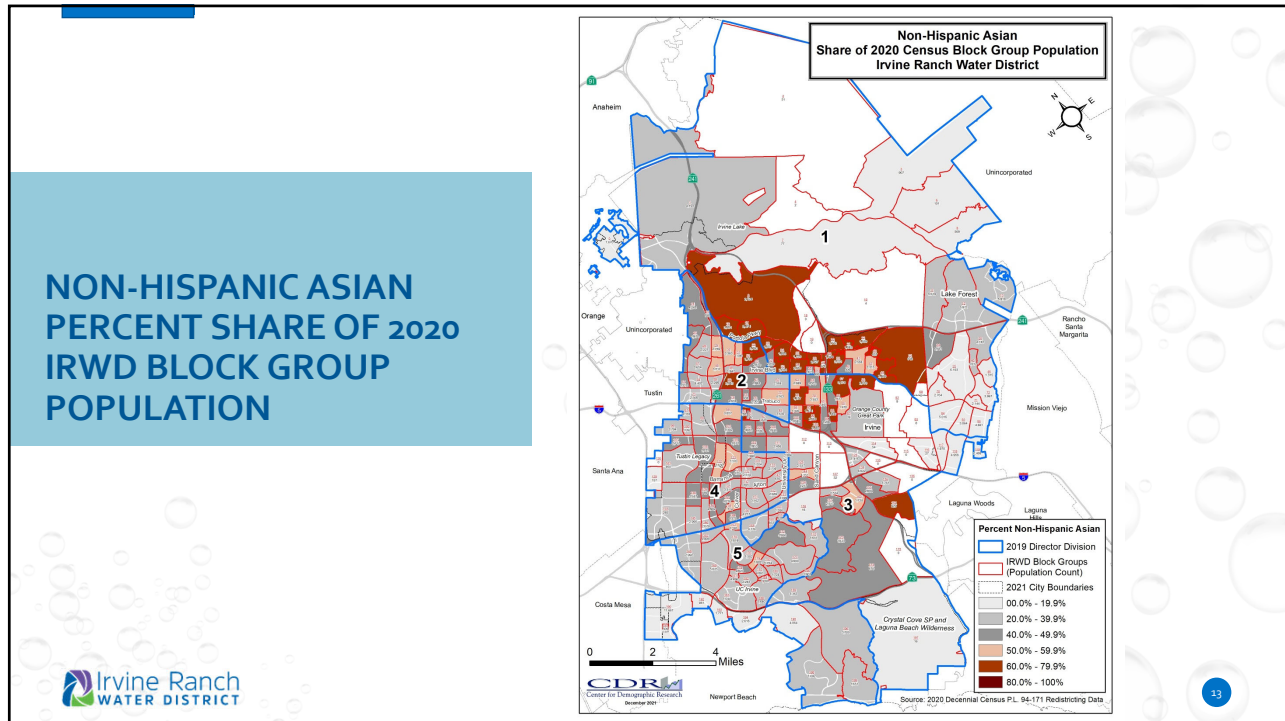
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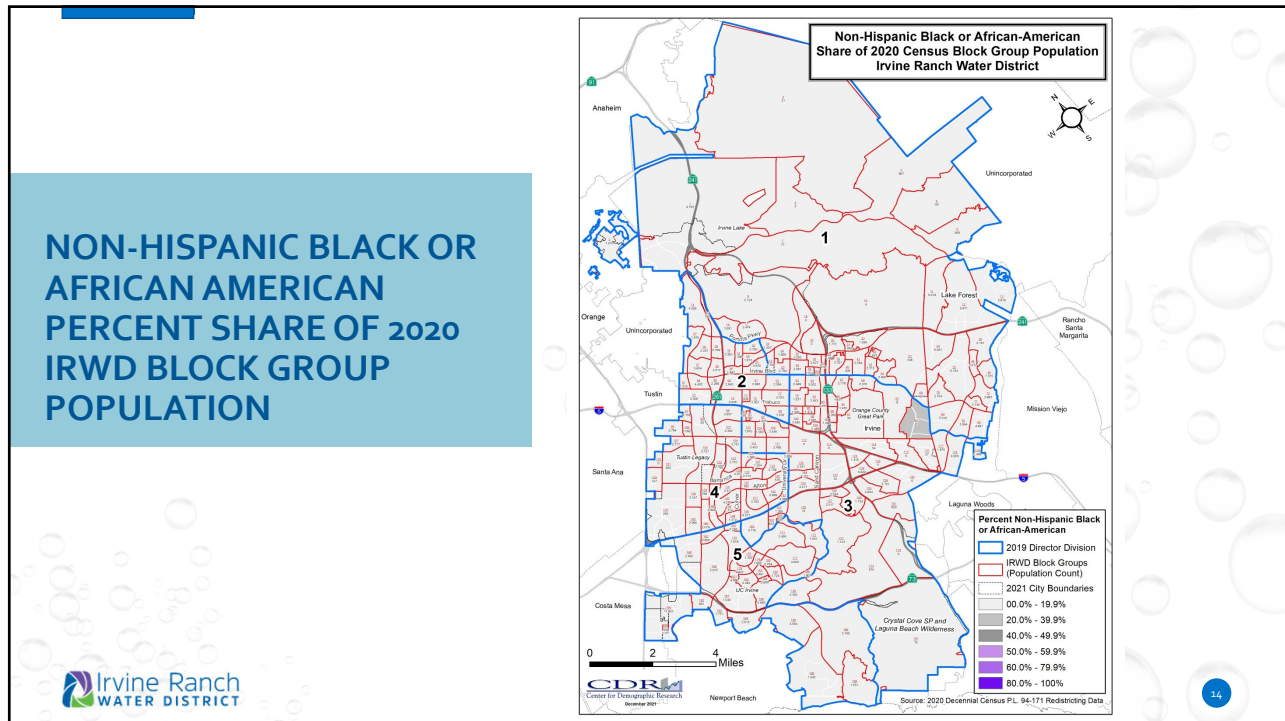
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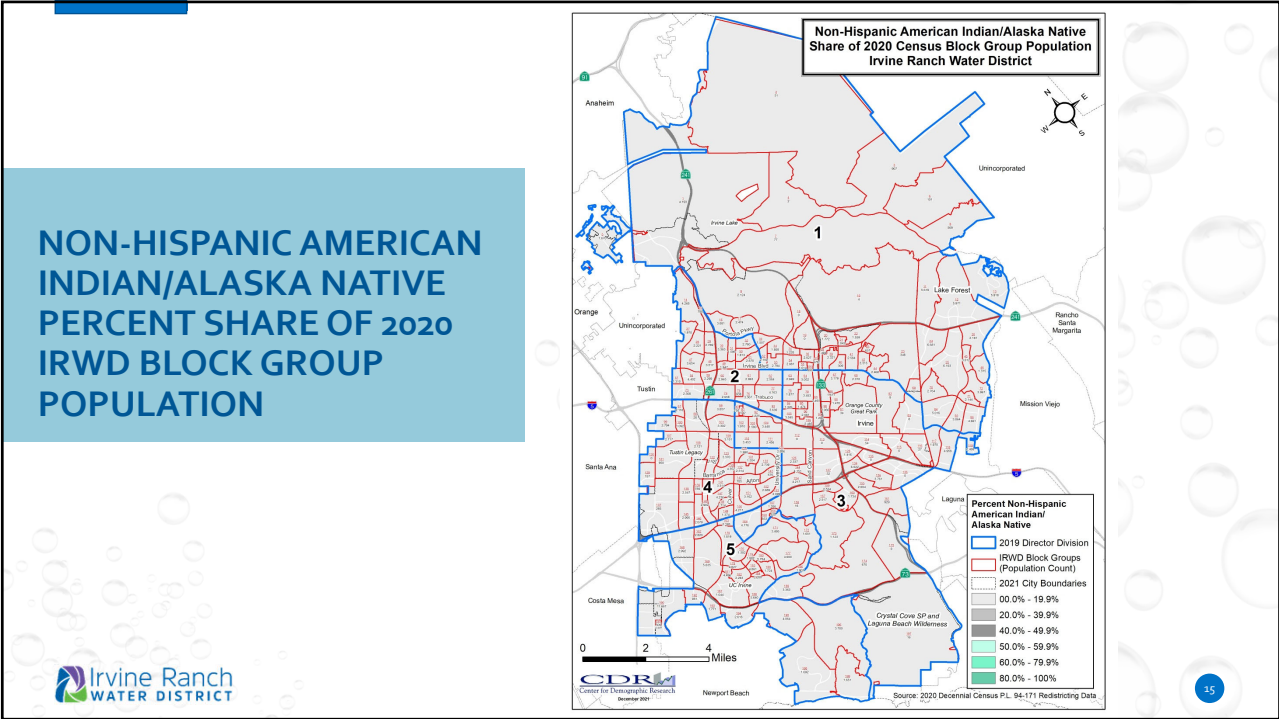
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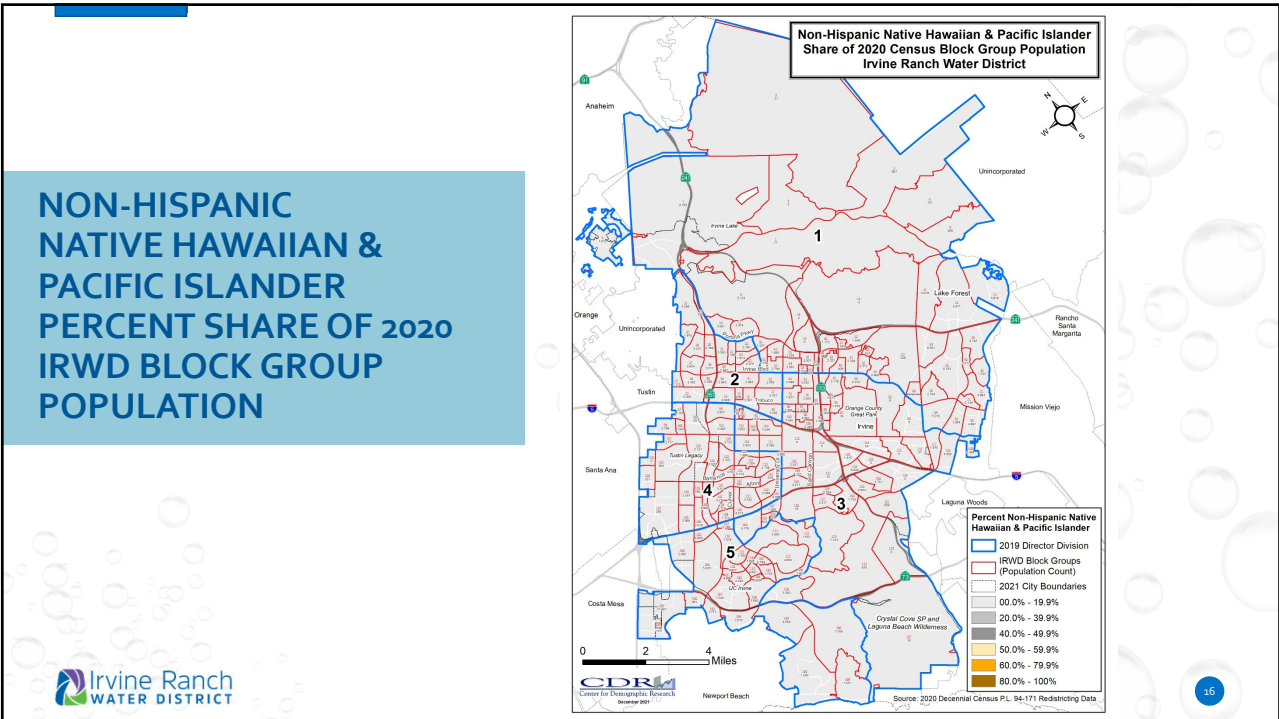
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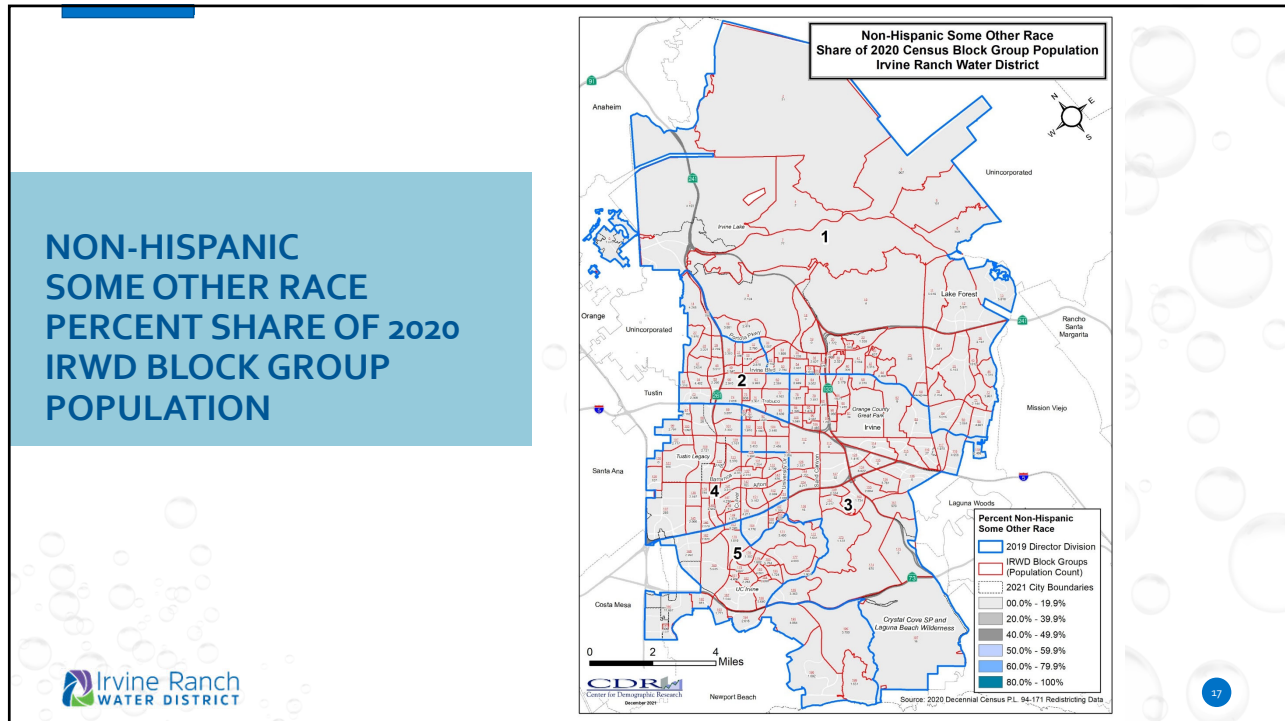
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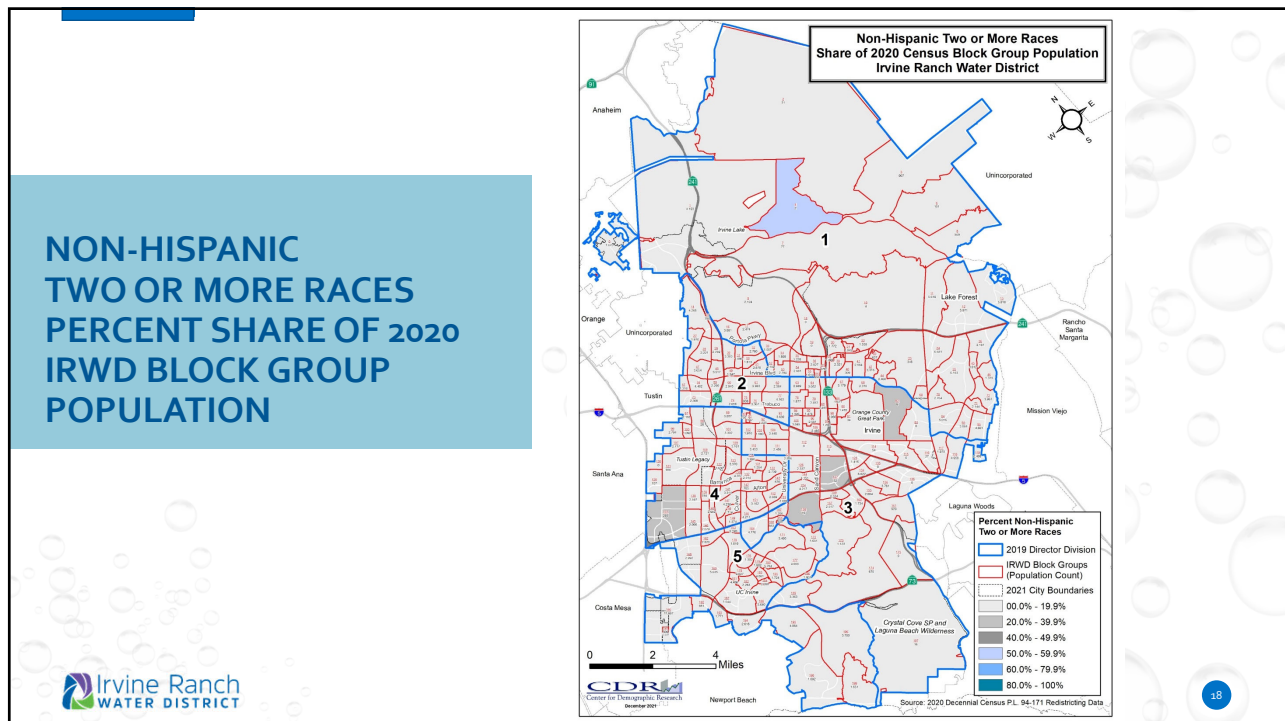
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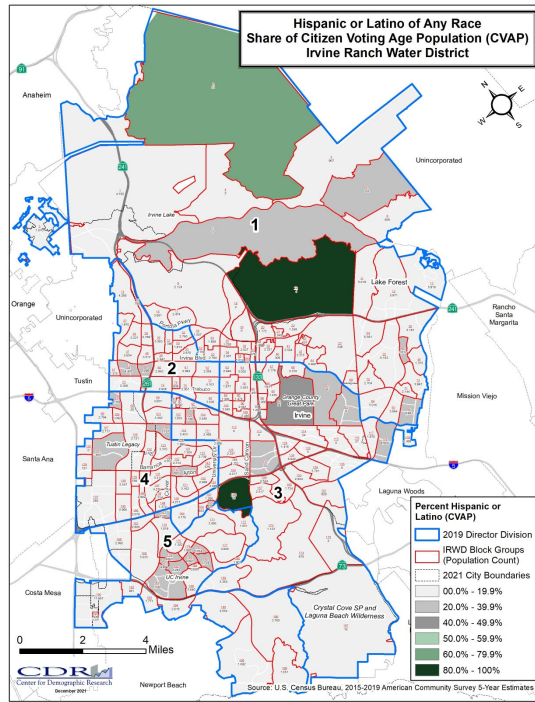


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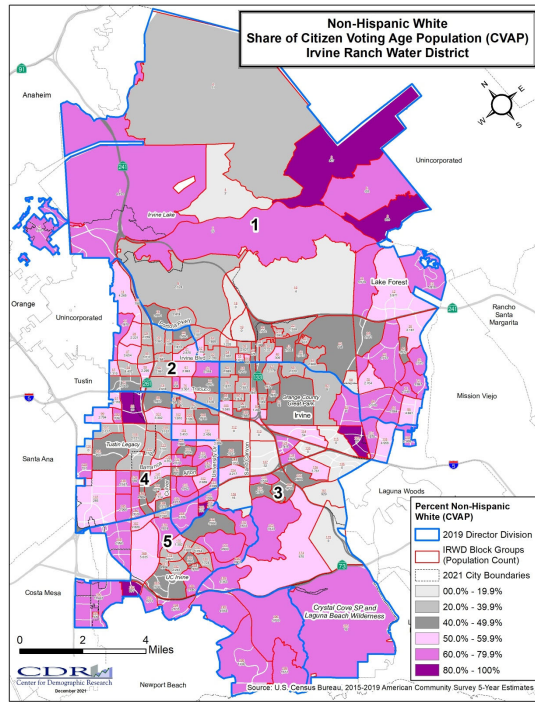


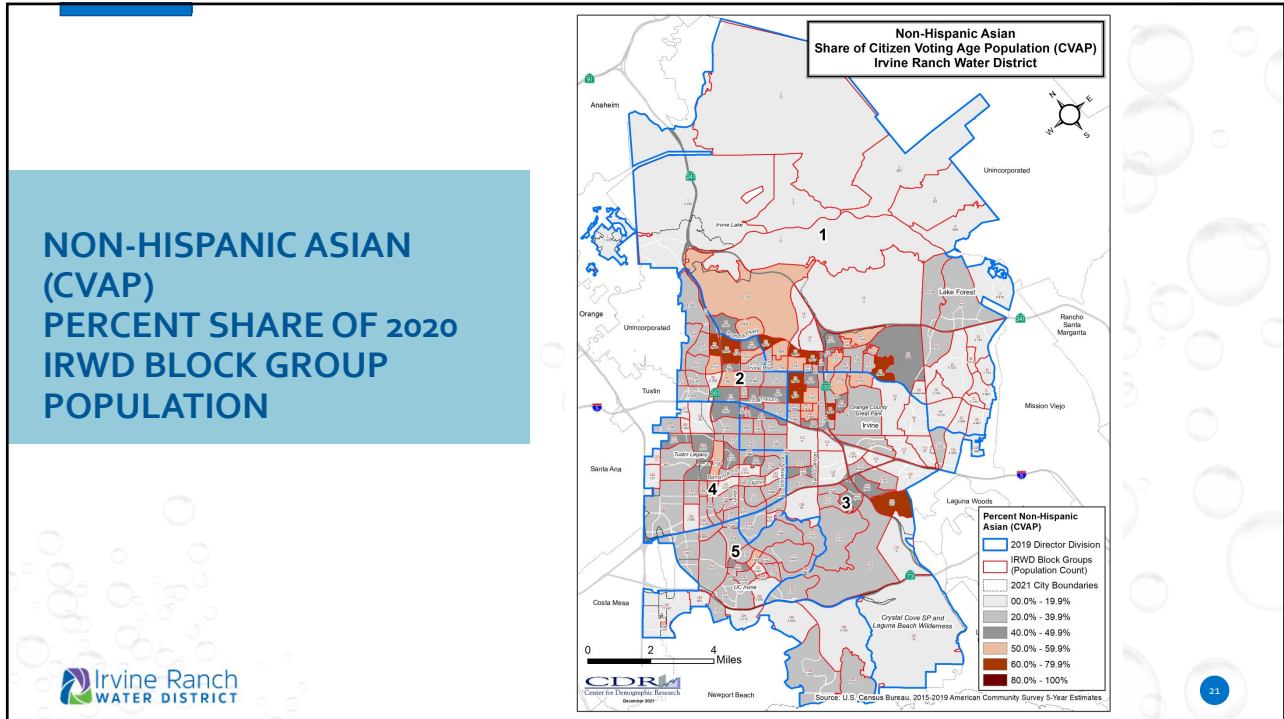
18

HISPANIC OR LATINO OF ANY RACE (CVAP) PERCENT SHARE OF 2020 IRWD BLOCK GROUP POPULATION



NON-HISPANIC WHITE (CVAP) PERCENT SHARE OF 2020 IRWD BLOCK GROUP POPULATION





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REQUIRED AND PERMISSIBLE REDISTRICTING CRITERIA

- Equal population between divisions
 - ✓ Viable plans must have a spread of under 10%
- Must meet the Federal Voting Rights Act
- Consideration may be given to the following factors:
 - ✓ Topography
 - ✓ Geography
 - ✓ Cohesiveness, contiguity, integrity, and compactness of territory
 - ✓ Communities of interest

Irvine Ranch WATER DISTRICT

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PROPOSED CRITERIA TO BE USED WHEN DRAWING PROPOSED DIVISION BOUNDARIES

- 1) Each director division shall contain a nearly equal number of inhabitants as reflected in the most recent decennial census
- 2) Divisions shall be drawn in a manner that complies with the Federal Voting Rights Act
- 3) Divisions shall consist of contiguous territory
- 4) Divisions will be in as compact a form as possible given the other criteria set forth
- 5) Division boundaries will respect communities of interest, including keeping villages whole, as much as possible
- 6) Division boundaries will consider jurisdictional boundaries as much as possible
- 7) Division boundaries will observe topography and geography such as man-made and natural geographic features, including major arterials and freeways, insofar as practicable
- 8) To the extent proposed divisions do not contain equal populations as reflected in the most recent decennial census, anticipated population growth before the next decennial census may be considered so long as population deviation remains within the parameters allowed by law
- 9) Consideration will be given to minimizing the alteration of division boundaries in order to promote consistency and continuity of representation



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HOW THE PUBLIC CAN SUBMIT CONCEPTUAL MAPS AND COMMENTS

- The District is soliciting additional input from the public on the districting process
- Three ways to provide written input:
 - 1) Idea Form
 - 2) Draw a Map
 - 3) Excel Table with IRWD Block Group Assignments
- Map proposals must be submitted by Thursday, January 6, 2022 at 5PM
- Kit available online for download at:

www.irwd.com/about-us/district-election-process



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IDEA FORM

Irvine Ranch Water District
2022 Director Division Redistricting Idea and Comment Form

Name: _____

Optional Information

Organization: _____

Phone Number: _____

Fax Number: _____

Email: _____

Are you also submitting a map with boundary changes: Yes No

Please write any ideas or comments you would like to share with the Irvine Ranch Water District on the redistricting process including ideas about communities of interest or proposed division boundaries. The comments you provide will be reviewed in their entirety. Please use additional pages if you require more room to write.

My ideas are as follows:

Please continue on back side if you need additional space

Submit to:

- Email: comments@irwd.com OR
- Mail paper copy to: IRWD District Secretary, 15600 Sand Canyon Ave, Irvine, CA 92618

Public Participation Kit: Idea Form

1. Download the form
2. Write out your comments
3. Take a picture or scan and email to comments@irwd.com

or

Mail/drop off hardcopy to District Secretary

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DRAW A MAP

Create five divisions with as nearly equal populations as possible. The goal is to have approximately 18,000 people for each division. Consider each division's population and geographic features. Review the 2010 and 2020 census. The map uses a black, blue or dark blue marker to show the proposed division boundaries on the map.

Submissions may be sent to:
 IRWD District Secretary
 Email: comments@irwd.com
 15600 Sand Canyon Avenue
 Irvine, CA 92618

Irvine Ranch Water District
Plan Proposed Submission Map
(1 of 2)

Contact Information
Name: _____
Email: _____
Phone: _____

Irvine Ranch Water District
Plan Proposed Submission Map
(2 of 2)

Name: _____ Contact Information: _____

CDRE
Center for Data Research & Analytics

Public Participation Kit: Map

1. Download the map
2. Draw 5 divisions with populations as close to 89,434 as possible
3. Take a picture or scan and email to comments@irwd.com

or

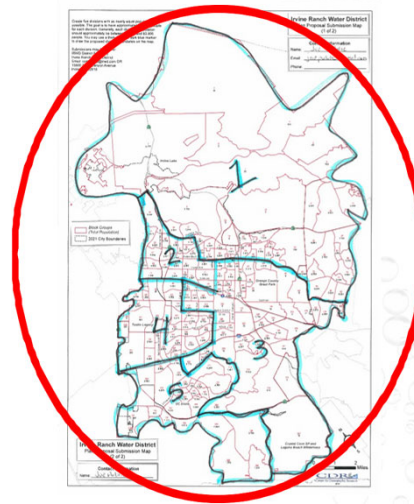
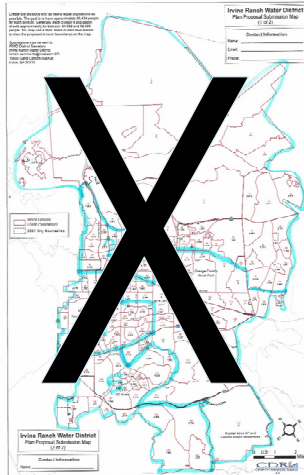
Mail/drop off hardcopy to District Secretary

28

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WHEN MAKING A MAP

Only dark colored markers should be used to draw maps.



EXCEL TABLE WITH IRWD BLOCK GROUP ASSIGNMENTS

Block Group	Population	Area (sq. miles)	Population Density
001	1,234	0.5	2,468
002	2,345	1.0	2,345
003	3,456	1.5	2,304
004	4,567	2.0	2,283
005	5,678	2.5	2,271
006	6,789	3.0	2,263
007	7,890	3.5	2,254
008	8,901	4.0	2,225
009	9,012	4.5	2,003
010	10,123	5.0	2,025



Excel Table Method

- Automatically tabulates population totals for each division as you assign the division number
- Contains 5 worksheets:
 - Instruction sheet
 - Author information
 - Assignments
 - Summary
 - Reference Maps

Public Participation Kit: Excel Table

1. Download the file
2. Assign each block group to a division
3. Email the Excel file to comments@irwd.com

QUESTIONS AND SUBMISSIONS

- Comments and proposals must be submitted by 5:00 pm on Thursday, January 6, 2022
- Submit written input to IRWD by:
 - Email: comments@irwd.com
 - Send or drop off hardcopy to the District Secretary @ 15600 Sand Canyon Ave., Irvine, CA 92618
- Contact District Secretary with questions @ (949) 453-5312



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NEXT STEPS

- The Public Comment and Map Submission Period closes Thursday, January 6 at 5:00 pm
- Draft maps will be published by January 17
- Public Hearing #2 will be held on January 24 to receive public comment on the draft map(s)
- Public Hearing #3 will be held on February 14 to receive public comment on the draft map(s) and the Board may adopt a final map following the close of that public hearing



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QUESTIONS & PUBLIC COMMENTS

Irvine Ranch
WATER DISTRICT

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Note: This page is intentionally left blank.

December 13, 2021
Prepared and
submitted by: L. Bonkowski
Approved by: Paul A. Cook *PAC*

CONSENT CALENDAR

BOARD MEETING MINUTES

SUMMARY:

Provided are the minutes of the November 22, 2021, Regular Board meeting for approval.

FISCAL IMPACTS:

None.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

Not applicable.

RECOMMENDATION:

THAT THE MINUTES OF THE NOVEMBER 22, 2021, REGULAR BOARD MEETING BE APPROVED AS PRESENTED.

LIST OF EXHIBITS:

Exhibit "A" – November 22, 2021, Minutes

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EXHIBIT "A"

MINUTES OF REGULAR MEETING – NOVEMBER 22, 2021

The regular meeting of the Board of Directors of the Irvine Ranch Water District (IRWD) was called to order at 5:00 p.m. by President Reinhart on November 22, 2021, in person at the District's headquarters located at 15600 Sand Canyon Avenue, Irvine, California. The meeting was also broadcast via Webex as a convenience to the public.

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

Directors Absent: None.

Written and Oral Communications: None.

Also Present: General Manager Cook, Executive Director of Technical Services Burton, Executive Director of Operations Chambers, Executive Director of Finance and Administration Clary, Executive Director of Water Policy Weghorst, Director of Treasury and Risk Management Jacobson, Director of Recycling Operations Zepeda, Director of Water Resources Sanchez, Director of Maintenance Mykitta, Director of Human Resources Mitcham, Director of Water Quality and Regulatory Compliance Colston, Director of Strategic Communications and Advocacy/Deputy General Counsel Compton, Facilities and Fleet Manager Tedescucci, Secretary Bonkowski, Assistant Secretary Swan, General Counsel Collins, Consultant Newell, members of the public, and other staff.

GROUNDWATER WORKPLAN UPDATE

Using a PowerPoint presentation, Engineer Robinson reviewed the accomplishments and changed conditions since the 2018 Groundwater Workplan, historical water use and groundwater production, and identified IRWD's future groundwater needs and opportunities. He further reviewed next steps which include continued pumping to 100% of water use inside OCWD, completing rehabilitation and determining viability of existing Well 51 for blending, and revising groundwater needs every two to three years for prudent capital planning.

Director Withers reported that this item was reviewed by the Engineering and Operations Committee on November 16, 2021, and thanked staff for its efforts.

CONSENT CALENDAR

Director Swan asked that Item No. 12 be moved to the Action Calendar for discussion. There being no objections, this item was moved accordingly. President Reinhart said that before the final vote on the Consent Calendar, pertaining to Item No. 11 on tonight's agenda, on November 8, 2021, the Board conducted its annual performance evaluation of the General Manager. This evening the Board is considering changes to his compensation as a result of the performance review. Pursuant to Government Code Section 54953(c) (3) prior to taking final action on changes to the General Manager's compensation, he said he would provide a summary of the recommended action before us. He said that the recommendation is to: 1) increase the base salary of the General Manager by 3.08%, from \$324,156 to \$334,156, per year effective October 1, 2021, and 2) provide a one-time performance award of \$30,000 as a taxable lump sum cash payment. He further said that all other aspects of the General Manager's compensation would remain unchanged.

CONSENT CALENDAR (CONTINUED)

On MOTION by Withers, seconded by LaMar and unanimously carried, CONSENT CALENDAR ITEMS 5 THROUGH 11 WERE APPROVED AS FOLLOWS:

5. BOARD MEETING MINUTES

Recommendation: That the minutes of the November 8, 2021, 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 Steven LaMar, Karen McLaughlin, Peer Swan, and John Withers, as described.

7. OCTOBER 2021 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 2021 summary of Payroll ACH payments in the total amount of \$2,243,984, and approve the October 2021 accounts payable disbursement summary of Warrants 421839 through 422574, Workers' Compensation distributions, wire transfers, payroll withholding distributions and voided checks in the total amount of \$28,837,020.

8. UTILITY TRUCK CONTRACT AWARD

Recommendation: That the Board authorize the General Manager to execute a contract with Tuttle-Click Ford Lincoln in the amount of \$379,257 for the purchase of four new and unused medium duty utility trucks.

9. SR-55 FREEWAY WIDENING SANITARY SEWER RELOCATION ON COWAN BUDGET INCREASE AND CONSTRUCTION AWARD

Recommendation: That the Board authorize a budget increase for Project 11583 in the amount of \$113,000, from \$262,000 to \$375,000, and authorize the General Manager to execute a construction contract with GCI Construction, Inc. in the amount of \$222,845 for the SR-55 Freeway Widening Sanitary Sewer Relocation on Cowan, Project 11583.

10. LABORATORY EQUIPMENT PURCHASE CONTRACT AWARD

Recommendation: That the Board authorize the General Manager to execute a contract with Agilent Technologies in the amount of \$267,720.56 for the purchase of a liquid chromatograph-tandem mass spectrometer.

11. 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 \$334,156 and a one-time performance award in the amount of \$30,000 effective October 1, 2021.

ACTION CALENDAR

12. DECLARATION OF REAL PROPERTY AS EXEMPT SURPLUS LAND

In response to Director Swan's inquiry, Legal Counsel Collins said that this declaration is mandated by law to receive Board authority for beginning negotiations, and that once the negotiations are finalized, it will be submitted to the Board for approval to dispose of the named property. There being no further discussion, on MOTION by Swan, seconded by LaMar, and unanimously carried, THE BOARD ADOPTED THE FOLLOWING RESOLUTION BY TITLE DECLARING THAT REAL PROPERTY DESIGNATED APN 093-242-80 IS EXEMPT SURPLUS LAND THAT IS NOT NECESSARY FOR IRWD'S USE, AUTHORIZED DISTRICT STAFF TO NEGOTIATE DISPOSAL OF THE PROPERTY, AND FOUND THAT THE DECLARATION AND DISPOSAL OF THE PROPERTY IS EXEMPT FROM THE CALIFORNIA ENVIRONMENTAL QUALITY ACT.

RESOLUTION NO. 2021-24

DECLARING THAT REAL PROPERTY DESIGNATED APN 093-242-80 IS EXEMPT SURPLUS LAND THAT IS NOT NECESSARY FOR THE DISTRICT'S USE; AUTHORIZING DISTRICT STAFF TO NEGOTIATE TO DISPOSE OF THE PROPERTY; FINDING THAT THE DECLARATION AND DISPOSAL OF THE PROPERTY IS EXEMPT FROM THE CALIFORNIA ENVIRONMENTAL QUALITY ACT

TERMS FOR LETTER AGREEMENT TO ALLOW METROPOLITAN WATER DISTRICT TO BORROW WATER

General Manager Cook reported that due to ongoing drought conditions and reduced State Water Project (SWP) allocations, Metropolitan Water District has requested to borrow the remaining SWP supplies stored in the IRWD Water Bank. Mr. Cook said that IRWD's Coordinated Operating, Water Storage, Exchange and Delivery Agreement (Coordinated Agreement) with Metropolitan allows it to borrow SWP supplies under certain conditions.

Executive Director of Water Policy Weghorst said that pursuant to the Coordinated Agreement, Metropolitan's borrowing of water shall not reduce IRWD's remaining balance of water in storage to below 17,500 acre-feet (AF). Mr. Weghorst said that currently IRWD has 10,492 AF of non-SWP water and 4,177 AF of SWP water totaling 14,669 AF stored in the IRWD Water Bank, and that of the 4,177 AF of SWP water, 250 AF must remain in Kern County, which leaves the remaining 3,927 AF of SWP water available for Metropolitan to borrow. He said that since IRWD's total water in storage is less than 17,500 AF, Metropolitan's borrowing of the 3,927 AF would require a letter agreement providing IRWD's written consent to waive the 17,500 AF limitation.

Mr. Weghorst said that staff has prepared terms for a letter agreement that would waive terms in the Coordinated Agreement to allow Metropolitan to borrow IRWD's SWP supplies in 2022, and it would also include provisions to close out the 2014 Exchange Agreement between IRWD and Metropolitan by issuing IRWD a credit for water already in Metropolitan's Southern California storage facilities.

Mr. Weghorst provided a summary of the letter agreement noting that: 1) IRWD will waive the requirement that Metropolitan cannot reduce the amount stored in the IRWD Water Bank to less than 17,500 AF; 2) in the same year, Metropolitan will issue a credit to IRWD for water stored in Southern California that is equal to the amount borrowed by Metropolitan; and 3) in consideration of IRWD's drought relief assistance, Metropolitan will waive IRWD's reimbursement of the recovery costs incurred by Metropolitan for the borrowed water. He then summarized the close-out of the 2014 Exchange agreement, which he said will also be accomplished in the Letter Agreement.

Mr. Weghorst highlighted the benefits to IRWD noting that by allowing Metropolitan to borrow IRWD's remaining SWP water and closing out of the 2014 Exchange Agreement will result in IRWD receiving a credit for 7,927 AF of water in Metropolitan's Southern California storage facilities. He further said that these credits will benefit IRWD by diversifying IRWD's storage programs and by allowing IRWD to avoid banking costs and banking losses in Kern County.

Director Reinhart made a motion, which was seconded by Withers, but prior to voting, Director Swan said that this item was reviewed by the Supply Reliability Programs Committee on November 18, 2021, and that his questions raised at the meeting had been answered by Metropolitan. Following comments from the Board, Withers, McLaughlin, LaMar and Reinhart voting aye and Swan voting no (4-1 vote), THE BOARD AUTHORIZED THE GENERAL MANAGER TO EXECUTE A LETTER AGREEMENT BASED ON THE PROPOSED TERMS ALLOWING METROPOLITAN WATER DISTRICT TO BORROW 3,927 ACRE-FEET OF STATE WATER PROJECT WATER STORED IN THE IRWD WATER BANK AND CLOSE OUT THE 2014 EXCHANGE AGREEMENT BETWEEN IRWD AND METROPOLITAN WATER DISTRICT.

TERMS FOR SHORT-TERM AND LONG-TERM WATER BANKING PROGRAMS WITH SANTA CLARITA VALLEY WATER AGENCY

Executive Director of Water Policy Weghorst said that in October 2021, staff met with the Santa Clarita Valley Water Agency to discuss implementing a mutually beneficial Short-term Drought Relief and Transfer Program (Short-term Program) and a Long-term Unbalanced Exchange Program (Long-term Program). Mr. Weghorst said that the Short-term Program would involve IRWD using its recovery capacity in the Strand and Stockdale Integrated Banking Projects (IRWD Water Bank) to provide drought relief to Santa Clarita by recovering Santa Clarita's banked State Water Project (SWP) water stored in a separate Rosedale-Rio Bravo Water Storage District program. This water would be provided in exchange for the future transfer of an equivalent amount of SWP water from Santa Clarita to IRWD. He said that the proposed Long-term Program would allow Santa Clarita to deliver future SWP water into storage in the IRWD Water Bank on a 2-for-1 unbalanced exchange basis.

Director Swan said that item was reviewed by the Supply Reliability Programs Committee on November 18, 2021 and said it was a good idea; however, he would like to see a caveat of asking Santa Clarita to give a future credit within seven years since IRWD is providing financing. He further said he would like the General Manager to explore opportunities to get a credit and report back to the Board. Director Reinhart made a motion, which was seconded by Withers, but prior to voting Director Swan asked to amend the motion to include language for the General Manager to explore opportunities, and to report back regarding receiving a credit. Director Swan made a motion which was seconded by Withers, but did not pass (Swan voting aye, and Withers, LaMar, Reinhart, and McLaughlin voting no [1-4 vote]). The original motion then passed with the

following unanimous vote of Reinhart, Withers, LaMar, McLaughlin and Swan voting aye (5-0 vote), AND THE BOARD AUTHORIZED THE GENERAL MANAGER TO DEVELOP AND EXECUTE A SHORT-TERM DROUGHT RELIEF AND TRANSFER PROGRAM AGREEMENT AND A LONG-TERM UNBALANCED EXCHANGE PROGRAM AGREEMENT BETWEEN IRWD AND SANTA CLARITA VALLEY WATER AGENCY BASED ON THE TERMS PRESENTED.

FISCAL YEARS 2021-22 AND 2022-23 PROPOSED RATES AND COST OF SERVICE STUDY

Using a PowerPoint presentation, Manager of Strategic Planning and Analysis Smithson provided an overview of the Proposed Rates and Proposition 218 Notices.

Mr. Smithson said that prior to commencing the rate-setting process for FY 2021-22 and FY 2022-23, IRWD engaged the consulting firm Raftelis Financial Consultants, Inc. to perform a Cost of Service Study (the 2020 COS Study). The purpose of the external review was to : 1) meet legal requirements; 2) affirm or update IRWD's existing processes; and 3) create an opportunity to consider alternatives that meet Board objectives. Mr. Smithson said that staff completed an additional analysis to provide rate recommendations to provide cost equity over the period of March 1, 2022, through June 30, 2023 (16 months), the time period covering the recommended rate increases. The proposed FY 2022-23 Operating Budget for IRWD is \$187.7 million, representing an increase of \$7.6 million, or 4.2%, compared to the proposed Operating Budget for FY 2021-22. Due to the continued economic impact of COVID-19 to IRWD's customers, the District deferred a rate increase until after December 31, 2021; the most recent rate increase was in July 2019. A rate increase that equates to \$4.54 per month, or an 8.9% increase for a typical residential customer, is recommended. He said that staff anticipates resuming the normal two-year rate review cycle consistent with the adoption of the two-year budget for FY 2023-24 and FY 2024-25. In addition, staff has developed Water Shortage Contingency Plan (WSCP) rates as a potential response action for each water shortage level in the WSCP.

Mr. Smithson further reviewed the key drivers comparisons for the budgets, provided charts showing the proposed rate increases, a chart showing the average yearly rate increase history, a rate comparison with other agencies with IRWD being the lowest, water shortage contingency plan rate assumptions, the draft Proposition 218 notices and structure, and recommended next steps.

On MOTION by Swan, seconded by Withers and unanimously carried, THE BOARD APPROVED THE DRAFT PROPOSITION 218 NOTICES SUBJECT TO NON-SUBSTANTIVE MODIFICATIONS.

OTHER BUSINESS

GENERAL MANAGER'S REPORT

General Manager Cook reported that there was one COVID-19 case last week.

Mr. Cook reported that approximately 4,000 customers have overdue balances with a current outstanding debt of \$3.2 million

Mr. Cook introduced Mr. Frank Tedescucci as the District's new Fleet and Facilities Manager.

Mr. Cook further said that last week he met with Palo Verde Irrigation District's General Manager Ned Hyduke and its Trustee Michael Mullion.

COMMUNITY UPDATE

Consultant Newell said there was nothing new to report in the Canyons, and was appreciative of the District's recent road and fire hydrant work efforts.

DIRECTORS' COMMENTS

Director LaMar reported on his attendance at the District's Business Outreach Program – Biosolids and Energy Recovery Facility tour, a Southern California Dialogue meeting, and an ACWA Executive Committee meeting and Board meeting.

Director McLaughlin reported on her attendance at a webinar regarding a PFAS Water Treatment Plant and a California Water Policy Conference.

Director Swan reported on his attendance at the District's Business Outreach program touring the Biosolids facility, a Ribbon Cutting event with the District's new tenants Bandai, an OCBC Infrastructure Committee meeting, and a Southern California Water Dialogue meeting.

Director Withers reported on his attendance at an NWRI Board meeting, a Business Outreach program touring the Biosolids facility, a PFAS webinar, and a California Water Policy conference.

Director Reinhart reported on his attendance at a Business Outreach program touring the Biosolids facility and an OCWD Board meeting.

CLOSED SESSION

Legal counsel Collins said that the following Closed Sessions would be held:

- 1) CLOSED SESSION CONFERENCE WITH LEGAL COUNSEL – ANTICIPATED LITIGATION – Pursuant to Government Code Section 54956.9 (d)(4): initiation of litigation (*one potential case*).
- 2) CONFERENCE WITH REAL PROPERTY NEGOTIATORS – Pursuant to Government Code Section 54956.8:

Property: Irvine Lake, Parcels 105-361-01, 105-361-03, 105-361-10, 105-361-11, 105-361-20, 105-361-24, and 105-361-25. County of Orange

Agency negotiators: Paul Cook, General Manager, and Rob Jacobson, Treasurer/Director of Risk Management

Negotiating parties: County of Orange and Serrano Water District

Under negotiation: License Price and Terms of Payment

OPEN SESSION

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

ADJOURNMENT

There being no further business, President Reinhart adjourned the meeting at 8:15 p.m.

APPROVED and SIGNED this 13th day of December 2021.

President, IRVINE RANCH WATER DISTRICT

Secretary IRVINE RANCH WATER DISTRICT

APPROVED AS TO FORM:

Claire Hervey Collins, General Counsel
Hanson Bridgett LLP

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December 13, 2021
Prepared and
submitted by: K. Swan
Approved by: Paul A. Cook *PA*

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:

Douglas Reinhart

December 15 IRWD Briefing

Peer Swan

November 3 Special Meeting of the Board of Directors West Basin Municipal Water District and Metropolitan Water District Representatives Caucus via teleconference

November 5 Orange County Business Council Advocacy & Government Affairs Committee Meeting via teleconference

November 16 Orange County Business Council’s Infrastructure Committee Meeting via Teleconference

John Withers

December 14 City Council Recognition Presentation for Sponsorship of the Irvine Global Village Festival

December 21 City of Lake Forest 30th Anniversary of Incorporation

RECOMMENDATION:

THAT THE BOARD RATIFY/APPROVE THE MEETINGS AND EVENTS FOR DOUGLAS REINHART, PEER SWAN, AND JOHN WITHERS, AS DESCRIBED HEREIN.

LIST OF EXHIBITS:


None.

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December 13, 2021

Prepared by: O. Mendoza / J. Davis

Submitted by: R. Jacobson / C. Clary

Approved by: Paul A. Cook 

CONSENT CALENDAR

NOVEMBER 2021 TREASURY REPORT

SUMMARY:

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

- A. The November 2021 Investment Summary Report. This Investment Summary Report conforms with the 2021 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 November 30, 2021, as outlined in Exhibit "B";
- C. The Monthly Interest Rate Swap Summary as of November 30, 2021, as outlined in Exhibit "C";
- D. The November 30, 2021, Disbursement Summary of warrants 422575 through 423099, wire transfers, Workers' Compensation distributions, payroll withholding distributions, and voided checks in the total amount of \$13,267,002, as outlined in Exhibit "D";
- E. The Summary of Payroll ACH payments in the total amount of \$2,412,671 as outlined in Exhibit "E"; and
- F. The Disclosure Report of Reimbursements to Board members and staff for November 2021, detailing payments or reimbursements for individual charges of \$100 or more per transaction, as outlined in Exhibit "F".

FISCAL IMPACTS:

As of November 30, 2021, the book value of the investment portfolio was \$375,408,739, with a 0.41% rate of return and a market value of \$375,471,725. Based on IRWD's September 30, 2021, quarterly real estate investment rate of return of 11.65%, the weighted average return for the fixed income and real estate investments was 2.78%.

As of November 30, 2021, the outstanding principal amount of fixed and variable rate debt was \$630,825,000. The monthly weighted average all-in variable rate was 0.34%. Including IRWD's weighted average fixed rate bond issues of 3.70% and the 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 2.98%.

Payroll ACH payments totaled \$2,412,671 and wire transfers, all other ACH payments, and checks issued for debt service, accounts payable, payroll, and water purchases for November totaled \$13,267,002.

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; the investment and debt reports are submitted to the Finance and Personnel Committee monthly.

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 NOVEMBER 2021 SUMMARY OF PAYROLL ACH PAYMENTS IN THE TOTAL AMOUNT OF \$2,412,671, AND APPROVE THE NOVEMBER 2021 ACCOUNTS PAYABLE DISBURSEMENT SUMMARY OF WARRANTS 422575 THROUGH 423099, WORKERS' COMPENSATION DISTRIBUTIONS, WIRE TRANSFERS, PAYROLL WITHHOLDING DISTRIBUTIONS AND VOIDED CHECKS IN THE TOTAL AMOUNT OF \$13,267,002.

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

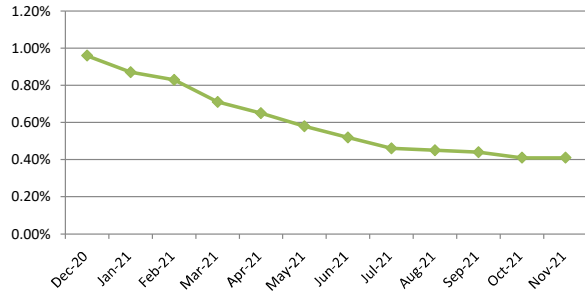
Exhibit "E" – Monthly Payroll ACH Summary

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

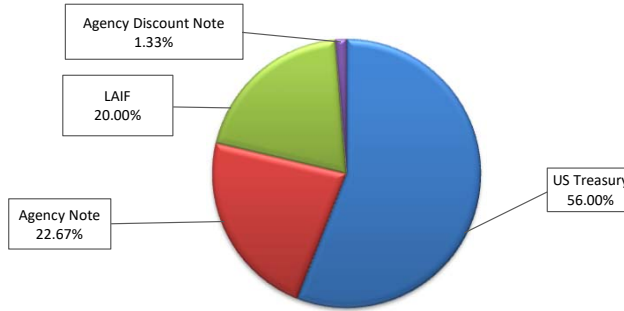
Exhibit "A"

Irvine Ranch Water District Investment Portfolio Summary November 2021

Monthly Fixed Income Yield



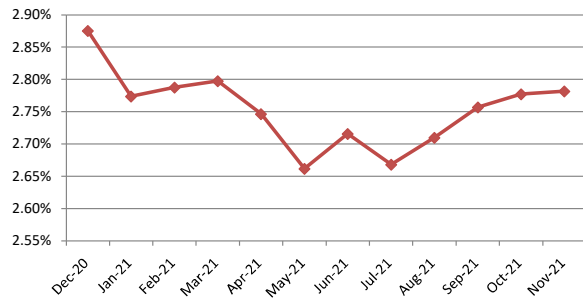
Portfolio Distribution



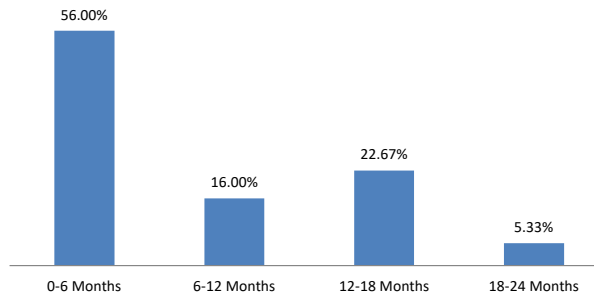
Investment Summary

Type	PAR	Book Value	Market Value
US Treasury	210,000,000	210,250,049	210,197,550
Agency Note	85,000,000	85,158,913	85,283,850
LAIF	75,000,000	75,000,000	74,990,525
Agency Discount Note	5,000,000	4,999,778	4,999,800
Grand Total	375,000,000	375,408,739	375,471,725

Weighted Average Return Including Real Estate Portfolio



Maturity Distribution



Top Issuers

Issuer	PAR	% Portfolio
US Treasury	210,000,000	56.00%
State of California Tsy.	75,000,000	20.00%
Fed Farm Credit Bank	55,000,000	14.67%
Fed Home Loan Bank	20,000,000	5.33%
Fed Home Loan Mortgage Corp	10,000,000	2.67%
Fed Natl Mortgage Assoc	5,000,000	1.33%
Grand Total	375,000,000	100.00%

IRVINE RANCH WATER DISTRICT
INVESTMENT SUMMARY REPORT

11/30/21

SETTLMT	Call Schedule	Initial Call	Maturity Date	Rating	INVESTMENT TYPE	INSTITUTION / ISSUER	PAR Amount	COUPON DISCOUNT	YIELD	ORIGINAL COST	CARRY VALUE	MARKET VALUE ⁽¹⁾ 11/30/2021	UNREALIZED ⁽²⁾ GAIN/(LOSS)
07/24/20			12/01/21		LAIF	State of California Tsy.	\$75,000,000		0.206%	\$75,000,000.00	\$75,000,000.00	74,990,524.58	(9,475.42)
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	5,000,008.19	5,000,050.00	41.81
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	5,004,783.49	5,004,850.00	66.51
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	10,020,814.92	10,008,700.00	(12,114.92)
06/30/21	NA	NA	12/30/21	Aaa/AA+/NR	Treasury - Bill	US Treasury	5,000,000	0.040%	0.041%	4,998,983.33	4,999,838.89	4,999,650.00	(188.89)
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	5,001,527.87	5,007,600.00	6,072.13
06/02/21	NA	NA	12/31/21	Aaa/NR/AAA	Treasury - Note	US Treasury	10,000,000	2.125%	0.027%	10,121,093.75	10,017,135.91	10,016,200.00	(935.91)
08/31/21	NA	NA	01/10/22	NR	FFCB - Discount Note	Fed Farm Credit Bank	5,000,000	0.040%	0.041%	4,999,266.67	4,999,777.78	4,999,800.00	22.22
05/26/21	NA	NA	01/11/22	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	2.625%	0.031%	5,081,057.95	5,014,449.46	5,014,550.00	100.54
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	5,004,258.65	5,013,400.00	9,141.35
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	5,013,082.75	5,013,400.00	317.25
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	5,000,235.72	5,015,050.00	14,814.28
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	5,001,908.71	5,015,100.00	13,191.29
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	4,997,217.52	5,017,200.00	19,982.48
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	5,008,616.52	5,025,250.00	16,633.48
11/13/20	NA	NA	02/28/22	Aaa/NR/AAA	Treasury - Note	US Treasury	5,000,000	1.875%	0.139%	5,112,304.69	5,021,176.10	5,022,300.00	1,123.90
11/19/20	NA	NA	02/28/22	Aaa/NR/AAA	Treasury - Note	US Treasury	5,000,000	1.750%	0.126%	5,103,710.94	5,019,807.45	5,020,750.00	942.55
06/09/21	NA	NA	02/28/22	Aaa/NR/AAA	Treasury - Note	US Treasury	5,000,000	1.125%	0.051%	5,038,964.84	5,013,135.87	5,013,100.00	(35.87)
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	5,000,250.23	5,034,050.00	33,799.77
12/23/20	NA	NA	03/22/22	Aaa/AA+/AAA	FFCB - Note	Fed Farm Credit Bank	10,000,000	0.090%	0.090%	10,000,000.00	10,000,000.00	10,001,000.00	1,000.00
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	5,003,685.85	5,029,700.00	26,014.15
04/30/21	NA	NA	03/31/22	Aaa/NR/AAA	Treasury - Note	US Treasury	5,000,000	0.375%	0.056%	5,014,648.44	5,005,247.20	5,005,000.00	(247.20)
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	4,999,609.20	5,023,950.00	24,340.80
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	10,051,208.52	10,057,300.00	6,091.48
08/12/21	NA	NA	05/31/22	Aaa/NR/AAA	Treasury - Note	US Treasury	10,000,000	1.750%	0.061%	10,135,156.25	10,105,996.69	10,081,600.00	(24,396.69)
04/22/21	NA	NA	06/30/22	Aaa/NR/AAA	Treasury - Note	US Treasury	10,000,000	0.125%	0.082%	10,005,078.13	10,002,468.86	10,000,800.00	(1,668.86)
04/30/21	NA	NA	06/30/22	Aaa/NR/AAA	Treasury - Note	US Treasury	5,000,000	0.125%	0.082%	5,002,539.06	5,001,257.61	5,000,400.00	(857.61)
05/28/21	NA	NA	06/30/22	Aaa/NR/AAA	Treasury - Note	US Treasury	5,000,000	0.125%	0.064%	5,003,320.31	5,001,760.26	5,000,400.00	(1,360.26)
05/20/21	NA	NA	06/30/22	Aaa/NR/AAA	Treasury - Note	US Treasury	5,000,000	1.750%	0.065%	5,093,750.00	5,048,722.29	5,047,450.00	(1,272.29)
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	5,000,185.86	5,046,100.00	45,914.14
04/28/21	NA	NA	08/31/22	Aaa/NR/NR	Treasury - Note	US Treasury	5,000,000	0.125%	0.102%	5,001,562.50	5,000,870.54	4,999,200.00	(1,670.54)
04/28/21	NA	NA	09/09/22	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	2.000%	0.112%	5,128,632.30	5,072,694.01	5,072,350.00	(344.01)
04/22/21	NA	NA	10/31/22	Aaa/NR/AAA	Treasury - Note	US Treasury	10,000,000	0.125%	0.110%	10,002,343.75	10,004,139.79	9,991,800.00	(12,339.79)
05/20/21	NA	NA	11/30/22	Aaa/NR/AAA	Treasury - Note	US Treasury	5,000,000	0.125%	0.103%	5,001,647.15	5,001,072.56	4,994,550.00	(6,522.56)
10/15/21	NA	NA	12/15/22	Aaa/AA/AAA	Treasury - Note	US Treasury	10,000,000	1.625%	0.140%	10,173,046.88	10,153,954.85	10,142,600.00	(11,354.85)
11/30/21	NA	NA	12/31/22	Aaa/AA/AAA	Treasury - Note	US Treasury	10,000,000	0.125%	0.216%	9,990,234.38	9,990,259.04	9,985,600.00	(4,659.04)
09/30/21	NA	NA	01/31/23	Aaa/NR/AAA	Treasury - Note	US Treasury	5,000,000	0.125%	0.143%	4,998,828.13	4,998,977.02	4,990,650.00	(8,327.02)
11/18/21	NA	NA	02/10/23	Aaa/AA+/AAA	FFCB - Note	Fed Farm Credit Bank	10,000,000	0.160%	0.285%	9,984,690.00	9,985,133.27	9,981,800.00	(3,333.27)
10/07/21	NA	NA	02/28/23	Aaa/AA/AAA	Treasury - Note	US Treasury	10,000,000	0.125%	0.181%	9,992,187.50	9,993,031.68	9,977,000.00	(16,031.68)
09/09/21	NA	NA	03/31/23	Aaa/AA/AAA	Treasury - Note	US Treasury	10,000,000	0.125%	0.153%	9,995,703.13	9,996,331.02	9,971,100.00	(25,231.02)
11/02/21	NA	NA	03/31/23	Aaa/AA/AAA	Treasury - Note	US Treasury	5,000,000	0.125%	0.308%	4,987,109.38	4,987,836.67	4,985,550.00	(2,286.67)
09/30/21	NA	NA	04/30/23	Aaa/AA/AAA	Treasury - Note	US Treasury	10,000,000	0.125%	0.202%	9,987,890.63	9,989,191.81	9,966,400.00	(22,791.81)
10/19/21	NA	NA	04/30/23	Aaa/AA/AAA	Treasury - Note	US Treasury	10,000,000	0.125%	0.307%	9,972,265.63	9,974,402.87	9,966,400.00	(8,002.87)
11/16/21	NA	NA	05/31/23	Aaa/AA/AAA	Treasury - Note	US Treasury	10,000,000	0.125%	0.385%	9,960,156.25	9,961,221.59	9,960,900.00	(321.59)
11/26/21	NA	NA	09/30/23	Aaa/AA/AAA	Treasury - Note	US Treasury	10,000,000	0.250%	0.572%	9,941,015.63	9,941,453.85	9,960,600.00	19,146.15
SUB-TOTAL							\$375,000,000			\$376,811,748.59	\$375,408,738.94	\$375,471,724.58	\$62,985.64
TOTAL INVESTMENTS							\$375,000,000			\$376,811,748.59	\$375,408,738.94	\$375,471,724.58	\$62,985.64

IRVINE RANCH WATER DISTRICT
INVESTMENT SUMMARY REPORT

11/30/21

SETTLMT	Call Schedule	Initial Call	Maturity Date	Rating	INVESTMENT TYPE	INSTITUTION / ISSUER	PAR Amount	COUPON DISCOUNT	YIELD	ORIGINAL COST	CARRY VALUE	MARKET VALUE ⁽¹⁾ 11/30/2021	UNREALIZED ⁽²⁾ GAIN/(LOSS)
					Petty Cash					3,400.00			
					Ck Balance	Bank of America	ECR	0.19%		14,887,572.84			
										<u>3,400.00</u>			
										<u>14,887,572.84</u>			
										<u><u>\$391,702,721.43</u></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	\$239,100,000
Net Outstanding Variable Rate Debt (Less \$60 million fixed-payer swaps)	\$179,100,000
Investment Balance:	\$391,702,721
Investment to Variable Rate Debt Ratio:	219%
Portfolio - Average Number of Days To Maturity	198

	Investment Portfolio	Real Estate ⁽³⁾ Portfolio	Weighted Avg. Return
November	0.41%	11.65%	2.78%
October	0.41%	11.65%	2.78%
Change			0.00%

This Investment Summary Report is in conformity with the 2021 Investment Policy and provides sufficient liquidity to meet the next six months estimated expenditures.
*S - Step up

Irvine Ranch Water District
Summary of Real Estate - Income Producing Investments
9/30/2021

	ACQUISITION DATE	PROPERTY TYPE	OWNERSHIP INTEREST	ORIGINAL COST	MARKET VALUE 6/30/2021	ANNUALIZED RATE OF RETURN QUARTER ENDED 9/30/2021
Sycamore Canyon	Dec-92	Apartments	Fee Simple	\$ 43,550,810	\$ 170,000,000	21.22%
Wood Canyon Villas	Jun-91	Apartments	Limited Partner	\$ 6,000,000	\$ 32,258,924	8.52%
ITC (230 Commerce)	Jul-03	Office Building	Fee Simple	\$ 5,739,845	\$ 12,000,000	9.40%
Waterworks Business Pk.	Nov-08	Research & Dev.	Fee Simple	\$ 8,630,577	\$ 11,600,000	7.19%
Sand Canyon Professional Center - Medical Office	Jul-12	Medical Office	Fee Simple	\$ 8,648,594	\$ 11,900,000	9.40%
Sand Canyon Professional Center - General Office	Sep-20	Office Building	Fee Simple	\$ 25,985,968	\$ 33,250,000	-0.92%
Total - Income Properties				\$ 98,555,794	\$ 271,008,924	11.65%

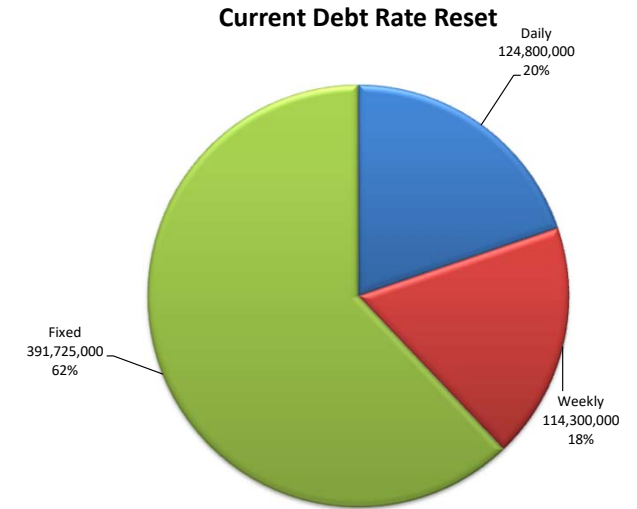
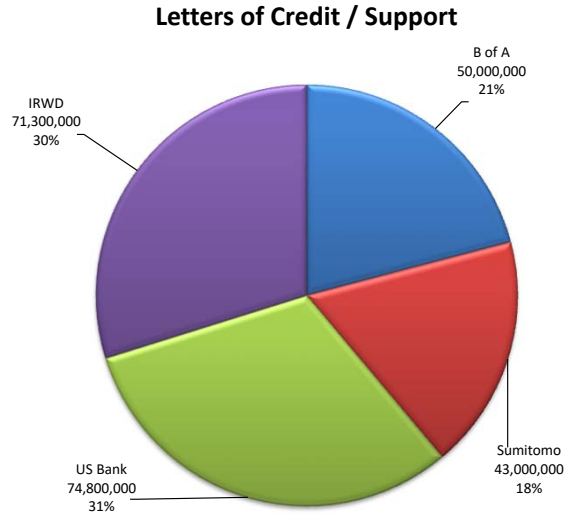
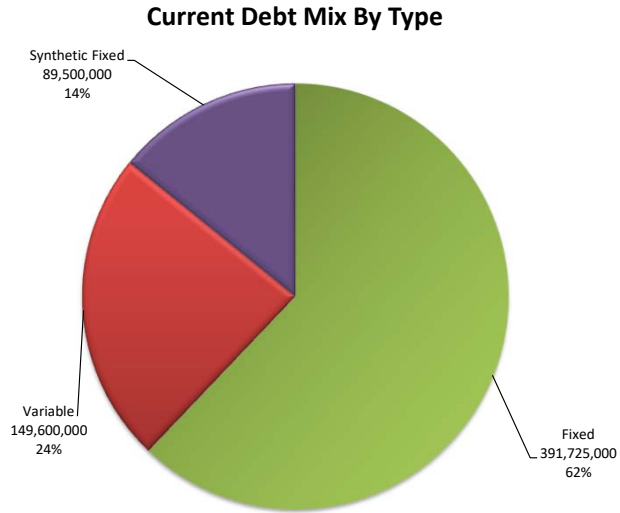
IRVINE RANCH WATER DISTRICT INVESTMENT SUMMARY REPORT
INVESTMENT ACTIVITY
Nov-21

MATURITIES/SALES/CALLS

PURCHASES

DATE	SECURITY TYPE	PAR	YIELD	Settlement Date	Maturity Date	SECURITY TYPE	PAR	YIELD TO MATURITY
11/2/2021	Treasury - Bill	\$5,000,000	0.11%	11/2/2021	3/31/2023	Treasury - Note	\$5,000,000	0.31%
11/15/2021	Treasury - Note	\$5,000,000	1.61%	11/16/2021	5/31/2023	Treasury - Note	\$10,000,000	0.39%
11/18/2021	Treasury - Bill	\$10,000,000	0.04%	11/18/2021	2/10/2023	FFCB - Note	\$10,000,000	0.29%
11/26/2021	Treasury - Bill	\$5,000,000	0.03%	11/26/2021	9/30/2023	Treasury - Note	\$10,000,000	0.57%
11/30/2021	Treasury - Note	\$5,000,000	1.68%	11/30/2021	12/31/2022	Treasury - Note	\$10,000,000	0.22%
11/30/2021	Treasury - Note	\$5,000,000	0.06%					

Exhibit "B"
Irvine Ranch Water District
Summary of Fixed and Variable Rate Debt
November 2021



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	\$24,800,000	3.93%	US Bank	BAML	Variable	Daily
Series 2008-A Refunding	04/24/08	07/01/35	\$43,000,000	6.82%	Sumitomo	BAML	Variable	Weekly
Series 2011-A-1 Refunding	04/15/11	10/01/37	\$42,780,000	6.78%	IRWD	Goldman	Variable	Weekly
Series 2011-A-2 Refunding	04/15/11	10/01/37	\$28,520,000	4.52%	IRWD	Goldman	Variable	Weekly
Series 2009 - A	06/04/09	10/01/41	\$50,000,000	7.93%	US Bank	US Bank	Variable	Daily
Series 2009 - B	06/04/09	10/01/41	\$50,000,000	7.93%	B of A	Goldman	Variable	Daily
2016 COPS	09/01/16	03/01/46	\$113,325,000	17.96%	N/A	N/A	Fixed	Fixed
2010 Build America Taxable Bond	12/16/10	05/01/40	\$175,000,000	27.74%	N/A	N/A	Fixed	Fixed
Series 2016	10/12/16	02/01/46	\$103,400,000	16.39%	N/A	N/A	Fixed	Fixed
Total			\$630,825,000	100.00%				

IRVINE RANCH WATER DISTRICT
SUMMARY OF FIXED & VARIABLE RATE DEBT

November-21

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	MOODYS	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	\$24,800,000	US BANK	05/07/15	05/01/25	Aa3/VMIG1	AA-/A-1+	N/R	\$25,134,290	0.3000%	\$75,403	BAML	DAILY	0.10%	\$24,800	BANK OF NY						
SERIES 2008-A Refunding	04/24/08	07/01/35	Jul 1	5th Bus. Day	\$60,215,000	\$43,000,000	SUMITOMO	04/01/11	05/28/25	A1/P-1	A/A-1	A/F1	\$43,636,164	0.3150%	\$137,454	BAML	WED	0.07%	\$30,100	BANK OF NY						
SERIES 2011-A-1 Refunding	04/15/11	10/01/37	Oct 1	1st Bus. Day	\$60,545,000	\$42,780,000	N/A	N/A	N/A	Aa1/VMIG1	A-1+	AAA/F1+	N/A	N/A	N/A	Goldman	WED	0.13%	\$53,475	BANK OF NY						
SERIES 2011-A-2 Refunding	04/15/11	10/01/37	Oct 1	1st Bus. Day	\$40,370,000	\$28,520,000	N/A	N/A	N/A	Aa1/VMIG1	A-1+	AAA/F1+	N/A	N/A	N/A	Goldman	WED	0.13%	\$35,650	BANK OF NY						
SERIES 2009 - A	06/04/09	10/01/41	Oct 1	1st Bus. Day	\$75,000,000	\$50,000,000	US BANK	04/01/11	05/01/25	Aa2/VMIG 1	AA-/A-1+	AA/F1+	\$50,558,904	0.3000%	\$151,677	US Bank	DAILY	0.07%	\$35,000	US BANK						
SERIES 2009 - B	06/04/09	10/01/41	Oct 1	1st Bus. Day	\$75,000,000	\$50,000,000	B of A	04/01/11	05/16/22	Aa2/VMIG 1	A/A-1	A1/F1+	\$50,558,904	0.3000%	\$151,677	Goldman	DAILY	0.10%	\$50,000	US BANK						
					\$349,430,000	\$239,100,000	SUB-TOTAL VARIABLE RATE DEBT										\$169,888,263		0.3038%		\$516,210		0.10%		\$229,025	
																	(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 1	Mar/Sept	\$116,745,000	\$113,325,000	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	\$391,725,000	SUB-TOTAL FIXED RATE DEBT																			
					\$744,575,000	\$630,825,000	TOTAL- FIXED & VARIABLE RATE DEBT																			

Remarketing Agents			GO VS COP's		
Goldman	121,300,000	51%	GO:	517,500,000	82%
BAML	67,800,000	28%	COPS:	113,325,000	18%
US Bank	50,000,000	21%	Total	<u>630,825,000</u>	
	<u>239,100,000</u>				

LOC Banks		Breakdown Between Variable & Fixed Rate Mode	
SUMITOMO	43,000,000	Daily Issues	124,800,000 20%
BANK OF AMERICA	50,000,000	Weekly Issues	43,000,000 7%
US BANK	74,800,000	ITN Issues	71,300,000 11%
	<u>167,800,000</u>	Sub-Total	<u>239,100,000</u>
		Fixed Rate Issues	\$391,725,000 62%
		Sub-Total - Fixed	<u>391,725,000</u>
		TOTAL DEBT	
		FIXED & VAR.	<u>630,825,000</u> 100%

SUMMARY OF DEBT RATES
Nov-21

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	50,000,000	42,780,000	28,520,000	24,800,000	43,000,000	50,000,000
LOC Bank	BOFA	(SIFMA + 3)	(SIFMA + 3)	US BANK	Sumitomo	US BANK
Reset		Wednesday	Wednesday		Wednesday	
11/1/2021	0.01%	0.08%	0.08%	0.01%	0.05%	0.01%
11/2/2021	0.01%	0.08%	0.08%	0.01%	0.05%	0.01%
11/3/2021	0.01%	0.08%	0.08%	0.01%	0.05%	0.01%
11/4/2021	0.01%	0.07%	0.07%	0.01%	0.04%	0.01%
11/5/2021	0.01%	0.07%	0.07%	0.01%	0.04%	0.01%
11/6/2021	0.01%	0.07%	0.07%	0.01%	0.04%	0.01%
11/7/2021	0.01%	0.07%	0.07%	0.01%	0.04%	0.01%
11/8/2021	0.01%	0.07%	0.07%	0.01%	0.04%	0.02%
11/9/2021	0.01%	0.07%	0.07%	0.01%	0.04%	0.01%
11/10/2021	0.01%	0.07%	0.07%	0.01%	0.04%	0.01%
11/11/2021	0.01%	0.07%	0.07%	0.01%	0.04%	0.01%
11/12/2021	0.01%	0.07%	0.07%	0.01%	0.04%	0.02%
11/13/2021	0.01%	0.07%	0.07%	0.01%	0.04%	0.02%
11/14/2021	0.01%	0.07%	0.07%	0.01%	0.04%	0.02%
11/15/2021	0.01%	0.07%	0.07%	0.01%	0.04%	0.02%
11/16/2021	0.01%	0.07%	0.07%	0.01%	0.04%	0.02%
11/17/2021	0.01%	0.07%	0.07%	0.01%	0.04%	0.02%
11/18/2021	0.01%	0.07%	0.07%	0.01%	0.04%	0.02%
11/19/2021	0.01%	0.07%	0.07%	0.01%	0.04%	0.01%
11/20/2021	0.01%	0.07%	0.07%	0.01%	0.04%	0.01%
11/21/2021	0.01%	0.07%	0.07%	0.01%	0.04%	0.01%
11/22/2021	0.01%	0.07%	0.07%	0.01%	0.04%	0.01%
11/23/2021	0.01%	0.07%	0.07%	0.01%	0.04%	0.01%
11/24/2021	0.01%	0.07%	0.07%	0.01%	0.04%	0.01%
11/25/2021	0.01%	0.08%	0.08%	0.01%	0.05%	0.01%
11/26/2021	0.01%	0.08%	0.08%	0.01%	0.05%	0.01%
11/27/2021	0.01%	0.08%	0.08%	0.01%	0.05%	0.01%
11/28/2021	0.01%	0.08%	0.08%	0.01%	0.05%	0.01%
11/29/2021	0.01%	0.08%	0.08%	0.01%	0.05%	0.02%
11/30/2021	0.01%	0.08%	0.08%	0.02%	0.05%	0.02%
Avg Interest Rates	0.01%	0.07%	0.07%	0.01%	0.04%	0.01%
Rmkt Fee	0.10%	0.13%	0.13%	0.10%	0.07%	0.07%
LOC Fee	0.30%			0.30%	0.32%	0.30%
All-In Rate	0.41%	0.20%	0.20%	0.41%	0.43%	0.38%
Par Amount	92,780,000		28,520,000	67,800,000		50,000,000

Interest Rate Mode	Percent of Total Variable Rate Debt	Par Outstanding	Weighted All-In Average Rate	Base Rate Average
Daily	52.20%	124,800,000	0.40%	0.01%
Weekly	47.80%	114,300,000	0.28%	0.06%
	100.00%	\$ 239,100,000	0.34%	0.04%
Fixed				
COPS 2016	28.93%	113,325,000	2.90%	
BABS 2010	44.67%	175,000,000	4.44%	(1)
SERIES 2016	26.40%	103,400,000	3.32%	
	100.00%	\$ 391,725,000	3.70%	
All-In Debt Rate Including \$60 Million Notional Amount of Swaps				2.98%

(1) Rate adjusted up from 4.35% as a result of sequestration reducing BAB's subsidy by 5.7%

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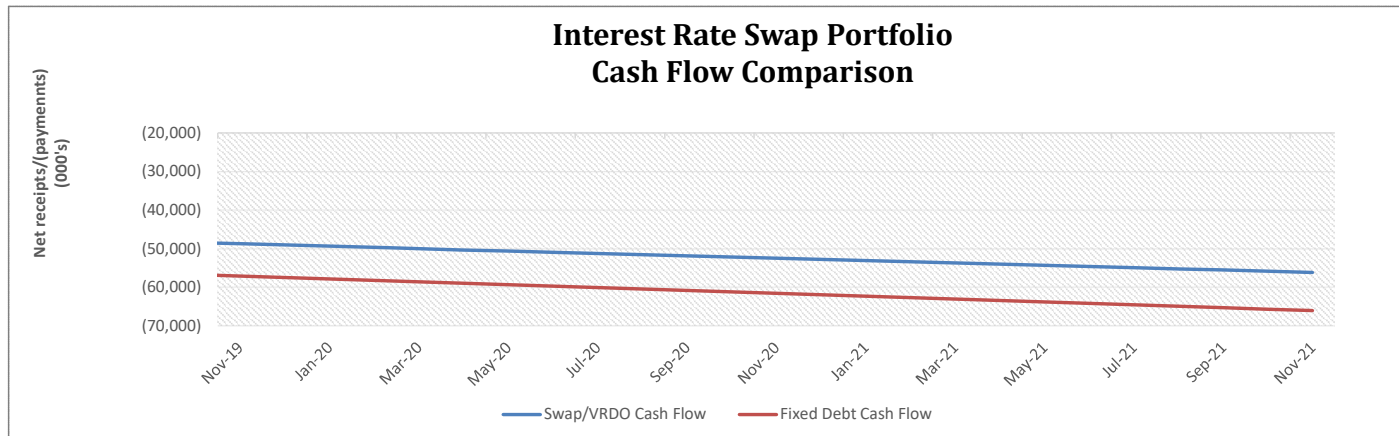
Exhibit "C"
Irvine Ranch Water District
Interest Rate Swap Summary
November 2021

	Prior Mo.	Current Mo.	12-Mo Avg
LIBOR Avg %	0.08%	0.09%	0.10%

Current Fiscal Year Active Swaps								Cash Flow				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	(Since 3/07) Cumulative Net Accrual	Current Mark to Market	Notional Difference
Fixed Payer Swaps - By Effective Date													
3/10/2007	3/10/2029	7.3	ML	30,000,000	FXP	LIBOR	5.687%	(135,368)	(144,535)	(699,323)	(20,458,590)	20,737,750	(9,262,250)
3/10/2007	3/10/2029	7.3	CG	30,000,000	FXP	LIBOR	5.687%	(135,368)	(144,535)	(699,323)	(20,458,590)	20,732,143	(9,267,857)
Totals/Weighted Avgs		7.3		\$ 60,000,000			5.687%	\$ (270,736)	\$ (289,070)	\$ (1,398,646)	\$ (40,917,179)	\$ 41,469,893	\$ (18,530,107)
Total Current Year Active Swaps				\$ 60,000,000				\$ (270,736)	\$ (289,070)	\$ (1,398,646)	\$ (40,917,179)	\$ 41,469,893	\$ (18,530,107)

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	
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 Active & Terminated Swaps				\$ 60,000,000				\$ (270,736)	\$ (289,070)	\$ (1,398,646)	\$ (40,917,179)	\$ 41,469,893	\$ (18,530,107)



Cash Flow Comparison Synthetic Fixed vs. Fixed Rate Debt	
Cash Flow to Date	
Synthetic Fixed =	\$56,150,340
Fixed Rate =	\$66,088,980
Assumptions:	
- Fixed rate debt issued at 4.93% in Mar-07	
- (estimated TE rate - Bloomberg)	
- 'Synthetic' includes swap cash flow + interest + fees to date	

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Exhibit "D"

IRVINE RANCH WATER DISTRICT AP DISBURSEMENTS AND VOIDS FOR NOV 2021

CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIERS	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
422575	4-Nov-21	Flotho, Eric (Eric)	114.10	IRWD Check	Reconciled
422576	4-Nov-21	Ho, Connie	47.60	IRWD Check	Reconciled
422577	4-Nov-21	Joseph, Brandon	293.00	IRWD Check	Reconciled
422578	4-Nov-21	Moore, Jonathon C (Jon)	270.53	IRWD Check	Negotiable
422579	4-Nov-21	Oldewage, Lars D (Lars)	136.79	IRWD Check	Reconciled
422580	4-Nov-21	Perez, David M (David)	283.00	IRWD Check	Reconciled
422581	4-Nov-21	Valencia, Reynaldo (Rey)	130.00	IRWD Check	Negotiable
422582	4-Nov-21	COUNTY OF ORANGE	24,253.92	IRWD Check	Reconciled
422583	4-Nov-21	COUNTY OF ORANGE	91,056.46	IRWD Check	Reconciled
422584	4-Nov-21	COUNTY OF RIVERSIDE	191,459.26	IRWD Check	Reconciled
422585	4-Nov-21	COUNTY OF RIVERSIDE	85,496.70	IRWD Check	Reconciled
422586	4-Nov-21	LANDCARE HOLDINGS, INC.	82,985.96	IRWD Check	Reconciled
422587	4-Nov-21	3SE	2,037.60	IRWD Check	Reconciled
422588	4-Nov-21	ABC ICE, INC	305.50	IRWD Check	Reconciled
422589	4-Nov-21	ADS CORP.	2,325.00	IRWD Check	Reconciled
422590	4-Nov-21	AERZEN USA CORP	27.45	IRWD Check	Reconciled
422591	4-Nov-21	AGILENT TECHNOLOGIES, INC.	274.04	IRWD Check	Reconciled
422592	4-Nov-21	AIRGAS, INC.	4,346.47	IRWD Check	Reconciled
422593	4-Nov-21	AM CONSERVATION GROUP, INC.	351.31	IRWD Check	Reconciled
422594	4-Nov-21	AMAYA SOLUTIONS INC.	7,729.88	IRWD Check	Reconciled
422595	4-Nov-21	AMAZON CAPITAL SERVICES, INC.	318.43	IRWD Check	Reconciled
422596	4-Nov-21	ANDERSONPENNA PARTNERS, INC.	8,120.00	IRWD Check	Reconciled
422597	4-Nov-21	ANIXTER INC	81,616.84	IRWD Check	Reconciled
422598	4-Nov-21	APPLIED ENGINEERING CONCEPTS	4,230.00	IRWD Check	Reconciled
422599	4-Nov-21	AQUA BEN CORPORATION	34,909.80	IRWD Check	Reconciled
422600	4-Nov-21	ARDURRA GROUP, INC.	46,750.00	IRWD Check	Reconciled
422601	4-Nov-21	ASHFORD, WALT	557.36	IRWD Check	Reconciled
422602	4-Nov-21	AT&T	58.37	IRWD Check	Reconciled
422603	4-Nov-21	AT&T	4,034.44	IRWD Check	Reconciled
422604	4-Nov-21	AUTOZONE PARTS, INC.	721.85	IRWD Check	Reconciled
422605	4-Nov-21	B & K ELECTRIC WHOLESALE	3,689.28	IRWD Check	Reconciled
422606	4-Nov-21	BANK OF AMERICA	17,897.72	IRWD Check	Reconciled
422607	4-Nov-21	BANK OF NEW YORK MELLON TRUST COMPANY NA	1,276.00	IRWD Check	Reconciled
422608	4-Nov-21	BATTERIES PLUS AND BATTERIES PLUS BULBS	197.23	IRWD Check	Reconciled
422609	4-Nov-21	BELL TOWER FLORIST & GIFTS	718.55	IRWD Check	Reconciled
422610	4-Nov-21	BEST DRILLING AND PUMP, INC.	110,770.00	IRWD Check	Reconciled
422611	4-Nov-21	BIGWIG MONSTER, LLC	1,200.00	IRWD Check	Reconciled
422612	4-Nov-21	BLACK & VEATCH CORPORATION	80,786.58	IRWD Check	Reconciled
422613	4-Nov-21	BORCHARD SURVEYING & MAPPING, INC.	800.00	IRWD Check	Reconciled
422614	4-Nov-21	C WELLS PIPELINE MATERIALS INC	146.54	IRWD Check	Reconciled
422615	4-Nov-21	CALIFORNIA BARRICADE RENTAL, INC.	39,055.90	IRWD Check	Reconciled
422616	4-Nov-21	CANON SOLUTIONS AMERICA, INC.	37.82	IRWD Check	Reconciled
422617	4-Nov-21	CANON SOLUTIONS AMERICA, INC.	18.82	IRWD Check	Reconciled
422618	4-Nov-21	CDW GOVERNMENT LLC	13,846.70	IRWD Check	Reconciled
422619	4-Nov-21	CHO DESIGN ASSOCIATES, INC	1,200.00	IRWD Check	Reconciled
422620	4-Nov-21	CIMARRON ENERGY, INC	2,775.75	IRWD Check	Reconciled
422621	4-Nov-21	CITY OF ORANGE	232.60	IRWD Check	Reconciled
422622	4-Nov-21	CLA-VAL COMPANY	4,399.93	IRWD Check	Reconciled
422623	4-Nov-21	CLARIS STRATEGY INC.	3,262.50	IRWD Check	Reconciled
422624	4-Nov-21	CLEAN ENERGY	6,486.10	IRWD Check	Reconciled
422625	4-Nov-21	CONSTELLATION NEWENERGY, INC.	153,181.91	IRWD Check	Reconciled
422626	4-Nov-21	COSTCO WHOLESALE CORPORATION	1,507.42	IRWD Check	Negotiable
422627	4-Nov-21	COUNTY OF RIVERSIDE	275,917.16	IRWD Check	Reconciled
422628	4-Nov-21	COX COMMUNICATIONS, INC.	274.89	IRWD Check	Reconciled
422629	4-Nov-21	D & H WATER SYSTEMS INC.	4,900.32	IRWD Check	Reconciled
422630	4-Nov-21	DAVIS FARR LLP	29,000.00	IRWD Check	Reconciled
422631	4-Nov-21	DCS MANAGEMENT LLC	490.26	IRWD Check	Reconciled
422632	4-Nov-21	DG INVESTMENT INTERMEDIATE HOLDINGS 2, INC.	18,855.00	IRWD Check	Reconciled
422633	4-Nov-21	DRAKE TRAFFIC CONTROL SERVICES INC	1,800.00	IRWD Check	Reconciled
422634	4-Nov-21	DUDLEY RIDGE WATER DISTRICT	95,137.42	IRWD Check	Reconciled
422635	4-Nov-21	EHS INTERNATIONAL,INC	2,400.00	IRWD Check	Reconciled
422636	4-Nov-21	ELITE AUTOMOTIVE SERVICE, LLC	125.00	IRWD Check	Reconciled
422637	4-Nov-21	ELITE EQUIPMENT, INC.	240.76	IRWD Check	Reconciled
422638	4-Nov-21	ENDEMIC ENVIRONMENTAL SERVICES, INC.	750.00	IRWD Check	Reconciled
422639	4-Nov-21	ENTERPRISE HOLDINGS, INC.	8,894.30	IRWD Check	Reconciled
422640	4-Nov-21	ENVIRONMENTAL RESOURCE ASSOCIATES	147.62	IRWD Check	Reconciled

**IRVINE RANCH WATER DISTRICT
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CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIERS	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
422641	4-Nov-21	ENVIRONMENTAL SCIENCE ASSOCIATES	17,253.13	IRWD Check	Reconciled
422642	4-Nov-21	EUROFINS CALSCIENCE, LLC	4,604.25	IRWD Check	Reconciled
422643	4-Nov-21	FARRELL & ASSOCIATES	104.41	IRWD Check	Reconciled
422644	4-Nov-21	FARWEST CORROSION CONTROL COMPANY	5,142.81	IRWD Check	Reconciled
422645	4-Nov-21	FASTBLUE COMMUNICATIONS INC.	1,917.00	IRWD Check	Reconciled
422646	4-Nov-21	FEDEX	879.53	IRWD Check	Reconciled
422647	4-Nov-21	FEDEX NATIONAL LTL, INC	1,141.00	IRWD Check	Reconciled
422648	4-Nov-21	FIERRO, SERGIO D	3,960.00	IRWD Check	Reconciled
422649	4-Nov-21	FISHER SCIENTIFIC COMPANY LLC	62.13	IRWD Check	Reconciled
422650	4-Nov-21	FLEET SOLUTIONS LLC	5,266.52	IRWD Check	Reconciled
422651	4-Nov-21	FOUGHT, CYNTHIA J.	2,631.84	IRWD Check	Reconciled
422652	4-Nov-21	FRANCHISE TAX BOARD	400.00	IRWD Check	Reconciled
422653	4-Nov-21	FRONTIER CALIFORNIA INC.	291.41	IRWD Check	Reconciled
422654	4-Nov-21	FULLER TRUCK ACCESSORIES	1,282.23	IRWD Check	Reconciled
422655	4-Nov-21	GARY BALE REDI-MIX CONCRETE, INC.	1,287.80	IRWD Check	Reconciled
422656	4-Nov-21	GRAINGER	4,141.32	IRWD Check	Reconciled
422657	4-Nov-21	GRAYBAR ELECTRIC COMPANY	9,992.70	IRWD Check	Reconciled
422658	4-Nov-21	HAAKER EQUIPMENT COMPANY	5,504.37	IRWD Check	Reconciled
422659	4-Nov-21	HACH COMPANY	5,765.59	IRWD Check	Reconciled
422660	4-Nov-21	HAJI, NADIA	15.94	IRWD Check	Reconciled
422661	4-Nov-21	HANSON BRIDGETT LLP	46,063.89	IRWD Check	Reconciled
422662	4-Nov-21	HARRINGTON INDUSTRIAL PLASTICS LLC	4,275.05	IRWD Check	Reconciled
422663	4-Nov-21	HELPMATES STAFFING SERVICES LLC	4,109.89	IRWD Check	Reconciled
422664	4-Nov-21	HERC RENTALS INC.	1,103.26	IRWD Check	Reconciled
422665	4-Nov-21	HI-LINE INC	94.49	IRWD Check	Reconciled
422666	4-Nov-21	HILL BROTHERS CHEMICAL COMPANY	13,340.09	IRWD Check	Reconciled
422667	4-Nov-21	HOME DEPOT USA INC	208.25	IRWD Check	Reconciled
422668	4-Nov-21	HOMISCO, INC. AND SUBSIDIARY	1,087.63	IRWD Check	Reconciled
422669	4-Nov-21	INORGANIC VENTURES INC	730.36	IRWD Check	Reconciled
422670	4-Nov-21	INTEGRITY MUNICIPAL SERVICES LLC	4,215.00	IRWD Check	Reconciled
422671	4-Nov-21	INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS LOCAL 47	3,186.17	IRWD Check	Reconciled
422672	4-Nov-21	IRVINE PIPE & SUPPLY INC	3,864.55	IRWD Check	Reconciled
422673	4-Nov-21	IRVINE UNIFIED SCHOOL DISTRICT	1,236.34	IRWD Check	Reconciled
422674	4-Nov-21	IRWD-PETTY CASH CUSTODIAN	931.65	IRWD Check	Reconciled
422675	4-Nov-21	JAMBOREE SMOG	58.00	IRWD Check	Negotiable
422676	4-Nov-21	JCI JONES CHEMICALS INC	7,866.52	IRWD Check	Reconciled
422677	4-Nov-21	JONSET LLC	1,149.50	IRWD Check	Reconciled
422678	4-Nov-21	KB HOMES	142.02	IRWD Check	Negotiable
422679	4-Nov-21	KENNEY, STEVEN	18.46	IRWD Check	Voided
422680	4-Nov-21	KILL-N-BUGS TERMITE AND PEST CONTROL SERVICES	2,650.00	IRWD Check	Reconciled
422681	4-Nov-21	KIMBALL MIDWEST	1,129.05	IRWD Check	Reconciled
422682	4-Nov-21	KINGS COUNTY TAX COLLECTOR	22,830.26	IRWD Check	Reconciled
422683	4-Nov-21	LAGUNA BEACH COUNTY WATER DISTRICT	5,960.14	IRWD Check	Reconciled
422684	4-Nov-21	LANDCARE HOLDINGS, INC.	133,426.29	IRWD Check	Reconciled
422685	4-Nov-21	LEI, LIAYANG	315.25	IRWD Check	Negotiable
422686	4-Nov-21	LIEBERT CASSIDY WHITMORE	1,296.00	IRWD Check	Reconciled
422687	4-Nov-21	LINDSAY POLIC CONSULTING, INC.	9,800.00	IRWD Check	Reconciled
422688	4-Nov-21	LITMAN, CARINA	44.43	IRWD Check	Reconciled
422689	4-Nov-21	LOREN, DONNA G	36.82	IRWD Check	Reconciled
422690	4-Nov-21	LUSTRE-CAL NAMEPLATE CORPORATION	780.97	IRWD Check	Reconciled
422691	4-Nov-21	LYNDE-ORDWAY CO., INC.	150.00	IRWD Check	Reconciled
422692	4-Nov-21	MAP COMMUNICATIONS, INC.	3,704.38	IRWD Check	Reconciled
422693	4-Nov-21	MBK ENGINEERS	11,824.25	IRWD Check	Reconciled
422694	4-Nov-21	MC MASTER CARR SUPPLY CO	91.13	IRWD Check	Reconciled
422695	4-Nov-21	MERRIMAC PETROLEUM, INC.	32,338.75	IRWD Check	Reconciled
422696	4-Nov-21	NANOPRECISE SCI CORP	31,643.00	IRWD Check	Negotiable
422697	4-Nov-21	NMG GEOTECHNICAL INC	9,025.20	IRWD Check	Reconciled
422698	4-Nov-21	O'REILLY AUTO ENTERPRISES, LLC	937.48	IRWD Check	Reconciled
422699	4-Nov-21	O.C. SUPERIOR CUSTOM CLEANING	832.00	IRWD Check	Reconciled
422700	4-Nov-21	OCTA	1,724.00	IRWD Check	Reconciled
422701	4-Nov-21	OLIN CORPORATION	26,544.65	IRWD Check	Reconciled
422702	4-Nov-21	ONESOURCE DISTRIBUTORS LLC	14,093.97	IRWD Check	Reconciled
422703	4-Nov-21	ORANGE COUNTY AUTO PARTS CO	749.56	IRWD Check	Reconciled
422704	4-Nov-21	OSTS, INC	1,150.00	IRWD Check	Reconciled
422705	4-Nov-21	PACRIM ENGINEERING INC.	4,875.00	IRWD Check	Reconciled
422706	4-Nov-21	PASCAL & LUDWIG CONSTRUCTORS	240,330.80	IRWD Check	Reconciled

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CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIERS	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
422707	4-Nov-21	PASCAL & LUDWIG CONSTRUCTORS	12,648.99	IRWD Check	Reconciled
422708	4-Nov-21	PAUL A. RUELAS	1,760.00	IRWD Check	Reconciled
422709	4-Nov-21	PAYMENTUS GROUP INC.	68,586.49	IRWD Check	Reconciled
422710	4-Nov-21	PAYNE & FEARS LLP	6,110.50	IRWD Check	Reconciled
422711	4-Nov-21	PELLETIER & ASSOCIATES, INC.	990.00	IRWD Check	Reconciled
422712	4-Nov-21	PERKINELMER HEALTH SCIENCES INC	563.56	IRWD Check	Reconciled
422713	4-Nov-21	PERS LONG TERM CARE	447.62	IRWD Check	Reconciled
422714	4-Nov-21	PSOMAS	1,430.00	IRWD Check	Reconciled
422715	4-Nov-21	R&B AUTOMATION, INC.	14,065.66	IRWD Check	Reconciled
422716	4-Nov-21	RAM AIR ENGINEERING INC	25,130.66	IRWD Check	Reconciled
422717	4-Nov-21	RED WING SHOE STORE	1,398.84	IRWD Check	Reconciled
422718	4-Nov-21	SANTA MARGARITA FORD	128.07	IRWD Check	Reconciled
422719	4-Nov-21	SCHINDLER ELEVATOR CORPORATION	236.62	IRWD Check	Reconciled
422720	4-Nov-21	SEAL ANALYTICAL INC	1,205.90	IRWD Check	Reconciled
422721	4-Nov-21	SERVSUPPLY.COM INC	263.99	IRWD Check	Reconciled
422722	4-Nov-21	SHAMROCK SUPPLY CO INC	451.92	IRWD Check	Reconciled
422723	4-Nov-21	SHOETERIA	208.47	IRWD Check	Reconciled
422724	4-Nov-21	SOUTHERN CALIFORNIA EDISON COMPANY	13,011.09	IRWD Check	Reconciled
422725	4-Nov-21	SOUTHWEST VALVE & EQUIPMENT INC	8,706.65	IRWD Check	Reconciled
422726	4-Nov-21	SUEZ TREATMENT SOLUTIONS INC.	3,759.37	IRWD Check	Reconciled
422727	4-Nov-21	SYNAGRO-WWT, INC.	96,548.80	IRWD Check	Reconciled
422728	4-Nov-21	TETRA TECH, INC	57,515.80	IRWD Check	Reconciled
422729	4-Nov-21	THERMO ELECTRON NORTH AMERICA LLC	3,653.00	IRWD Check	Reconciled
422730	4-Nov-21	THOMPSON & PHIPPS INC	2,657.75	IRWD Check	Reconciled
422731	4-Nov-21	TK ELEVATOR CORPORATION	211.44	IRWD Check	Reconciled
422732	4-Nov-21	TOTAL RESOURCE MANAGEMENT, INC	85.00	IRWD Check	Reconciled
422733	4-Nov-21	UNITED PARCEL SERVICE INC	130.66	IRWD Check	Reconciled
422734	4-Nov-21	VAUGHAN'S INDUSTRIAL REPAIR CO INC	8,483.82	IRWD Check	Reconciled
422735	4-Nov-21	VERIZON WIRELESS SERVICES LLC	19,533.90	IRWD Check	Reconciled
422736	4-Nov-21	VIRTUAL GRAFFITI, INC.	4,385.00	IRWD Check	Reconciled
422737	4-Nov-21	VWR INTERNATIONAL, LLC	568.49	IRWD Check	Reconciled
422738	4-Nov-21	WARD, WILLIAM P JR.	675.90	IRWD Check	Reconciled
422739	4-Nov-21	WASTE MANAGEMENT COLLECTIONS AND RECYCLING, INC.	2,475.62	IRWD Check	Reconciled
422740	4-Nov-21	WATANABE, KATHLEEN E	10.90	IRWD Check	Negotiable
422741	4-Nov-21	WAXIE'S ENTERPRISES, INC	1,643.68	IRWD Check	Reconciled
422742	4-Nov-21	WECK LABORATORIES INC	4,460.00	IRWD Check	Reconciled
422743	4-Nov-21	WIENHOFF & ASSOCIATES, INC	160.00	IRWD Check	Reconciled
422744	4-Nov-21	WORKFORCE SAFETY LLC	3,000.00	IRWD Check	Reconciled
422745	4-Nov-21	Arce, Jesus (Jesse)	60.00	IRWD Check	Reconciled
422746	4-Nov-21	Beltran, Benjamin Vega	125.00	IRWD Check	Reconciled
422747	4-Nov-21	Clinton, Bryan R (Bryan)	105.00	IRWD Check	Reconciled
422748	10-Nov-21	IRWD-PETTY CASH CUSTODIAN	1,053.83	IRWD Check	Reconciled
422749	11-Nov-21	Murphy, Alexander J (Alexander)	397.00	IRWD Check	Reconciled
422750	11-Nov-21	Nieto, Agustin (Augie)	150.00	IRWD Check	Reconciled
422751	11-Nov-21	8X8 INC	11,209.61	IRWD Check	Reconciled
422752	11-Nov-21	A&Y ASPHALT CONTRACTORS, INC.	37,962.71	IRWD Check	Reconciled
422753	11-Nov-21	ABM INDUSTRY GROUPS, LLC	34,442.09	IRWD Check	Reconciled
422754	11-Nov-21	ABSOLUTE STANDARDS, INC.	477.50	IRWD Check	Reconciled
422755	11-Nov-21	ACCUSTANDARD INC	83.21	IRWD Check	Reconciled
422756	11-Nov-21	ACE INDUSTRIES, INC.	19,101.29	IRWD Check	Reconciled
422757	11-Nov-21	ADAM'S FALCONRY SERVICE, LLC	1,560.00	IRWD Check	Reconciled
422758	11-Nov-21	ADOBE INC.	5,401.60	IRWD Check	Reconciled
422759	11-Nov-21	AECOM TECHNICAL SERVICES, INC.	7,980.00	IRWD Check	Reconciled
422760	11-Nov-21	AGILENT TECHNOLOGIES, INC.	419.33	IRWD Check	Reconciled
422761	11-Nov-21	AIRGAS, INC.	592.53	IRWD Check	Reconciled
422762	11-Nov-21	AIRKINETICS, INC	4,980.00	IRWD Check	Reconciled
422763	11-Nov-21	AMAZON CAPITAL SERVICES, INC.	1,802.15	IRWD Check	Reconciled
422764	11-Nov-21	ANIXTER INC	538.75	IRWD Check	Reconciled
422765	11-Nov-21	AQUA-METRIC SALES COMPANY	3,518.22	IRWD Check	Reconciled
422766	11-Nov-21	ARCADIS U.S., INC.	1,375.00	IRWD Check	Reconciled
422767	11-Nov-21	AT&T	101.79	IRWD Check	Reconciled
422768	11-Nov-21	AT&T	1,681.43	IRWD Check	Reconciled
422769	11-Nov-21	AT&T	1,106.82	IRWD Check	Reconciled
422770	11-Nov-21	ATHENS SERVICES	8,209.62	IRWD Check	Reconciled
422771	11-Nov-21	AUTOZONE PARTS, INC.	138.00	IRWD Check	Reconciled
422772	11-Nov-21	BADGER METER INC.	61,094.25	IRWD Check	Reconciled

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CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIERS	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
422773	11-Nov-21	BANK OF NEW YORK MELLON TRUST COMPANY NA	1,500.00	IRWD Check	Reconciled
422774	11-Nov-21	BEE EMERGENCY RESPONSE TEAM	525.00	IRWD Check	Reconciled
422775	11-Nov-21	BENJAMIN PETER DEMAYO	315.00	IRWD Check	Reconciled
422776	11-Nov-21	BIGWIG MONSTER, LLC	3,900.00	IRWD Check	Reconciled
422777	11-Nov-21	BIOMAGIC INC	9,796.52	IRWD Check	Reconciled
422778	11-Nov-21	BIOTAGE LLC	228.30	IRWD Check	Reconciled
422779	11-Nov-21	BRUCE HADLEY NEWELL	2,500.00	IRWD Check	Reconciled
422780	11-Nov-21	C WELLS PIPELINE MATERIALS INC	4,412.54	IRWD Check	Reconciled
422781	11-Nov-21	CALIFORNIA BARRICADE RENTAL, INC.	18,548.75	IRWD Check	Reconciled
422782	11-Nov-21	CALIFORNIA MUNICIPAL STATISTICS INC	50.00	IRWD Check	Reconciled
422783	11-Nov-21	CAPTIVE AUDIENCE MARKETING INC.	79.00	IRWD Check	Reconciled
422784	11-Nov-21	CAROLLO ENGINEERS, INC	4,949.50	IRWD Check	Reconciled
422785	11-Nov-21	CDW GOVERNMENT LLC	9,409.33	IRWD Check	Reconciled
422786	11-Nov-21	CHO DESIGN ASSOCIATES, INC	800.00	IRWD Check	Reconciled
422787	11-Nov-21	CLA-VAL COMPANY	4,042.49	IRWD Check	Reconciled
422788	11-Nov-21	CLIFFORD MORIYAMA	4,000.00	IRWD Check	Reconciled
422789	11-Nov-21	CONSERV CONSTRUCTION INC.	8,207.50	IRWD Check	Reconciled
422790	11-Nov-21	CONSTELLATION NEWENERGY, INC.	79,649.34	IRWD Check	Reconciled
422791	11-Nov-21	CR & R INCORPORATED	427.30	IRWD Check	Reconciled
422792	11-Nov-21	D & G SIGNS	22,872.91	IRWD Check	Reconciled
422793	11-Nov-21	D & H WATER SYSTEMS INC.	2,634.00	IRWD Check	Reconciled
422794	11-Nov-21	DRAKE TRAFFIC CONTROL SERVICES INC	5,250.00	IRWD Check	Reconciled
422795	11-Nov-21	EISEL ENTERPRISES INC	3,410.44	IRWD Check	Reconciled
422796	11-Nov-21	ENVIRONMENTAL RESOURCE ASSOCIATES	503.75	IRWD Check	Reconciled
422797	11-Nov-21	EUROFINS CALSCIENCE, LLC	2,058.00	IRWD Check	Reconciled
422798	11-Nov-21	EXECUTIVE LIGHTING & ELECTRIC	245.58	IRWD Check	Reconciled
422799	11-Nov-21	FELLING TRAILERS, INC.	64.65	IRWD Check	Reconciled
422800	11-Nov-21	FERGUSON ENTERPRISES, LLC	1,289.98	IRWD Check	Reconciled
422801	11-Nov-21	FISHER SCIENTIFIC COMPANY LLC	3,208.43	IRWD Check	Reconciled
422802	11-Nov-21	GANAHL LUMBER CO.	414.89	IRWD Check	Reconciled
422803	11-Nov-21	GARZA INDUSTRIES, INC	1,654.18	IRWD Check	Reconciled
422804	11-Nov-21	GI ENDURANT LLC	43,450.82	IRWD Check	Reconciled
422805	11-Nov-21	GM SAGER CONSTRUCTION CO,INC.	124,946.00	IRWD Check	Reconciled
422806	11-Nov-21	GRAINGER	1,909.74	IRWD Check	Reconciled
422807	11-Nov-21	GRAYBAR ELECTRIC COMPANY	2,709.32	IRWD Check	Reconciled
422808	11-Nov-21	GSRP ST SOLAR I LLC	11,510.57	IRWD Check	Reconciled
422809	11-Nov-21	HACH COMPANY	12,400.19	IRWD Check	Reconciled
422810	11-Nov-21	HARRINGTON INDUSTRIAL PLASTICS LLC	1,910.70	IRWD Check	Reconciled
422811	11-Nov-21	HDR ENGINEERING INC	6,505.50	IRWD Check	Reconciled
422812	11-Nov-21	HELPMATES STAFFING SERVICES LLC	1,264.80	IRWD Check	Reconciled
422813	11-Nov-21	HI-LINE INC	56.12	IRWD Check	Reconciled
422814	11-Nov-21	HILL BROTHERS CHEMICAL COMPANY	3,303.93	IRWD Check	Reconciled
422815	11-Nov-21	HOME DEPOT USA INC	1,222.51	IRWD Check	Reconciled
422816	11-Nov-21	IMPERIAL SPRINKLER SUPPLY, INC.	151.98	IRWD Check	Reconciled
422817	11-Nov-21	INDUSTRIAL METAL SUPPLY CO	28.27	IRWD Check	Reconciled
422818	11-Nov-21	INNOVATIVE MACHINE TOOL REPAIR LLC	5,882.81	IRWD Check	Reconciled
422819	11-Nov-21	IRON MOUNTAIN INFORMATION MANAGEMENT INC	676.61	IRWD Check	Reconciled
422820	11-Nov-21	IRVINE PIPE & SUPPLY INC	1,577.85	IRWD Check	Reconciled
422821	11-Nov-21	IRVINE UNIFIED SCHOOL DISTRICT	1,290.55	IRWD Check	Reconciled
422822	11-Nov-21	JCI JONES CHEMICALS INC	5,223.08	IRWD Check	Reconciled
422823	11-Nov-21	JENIFER L. KIENLE	90.00	IRWD Check	Reconciled
422824	11-Nov-21	JIG CONSULTANTS	4,640.00	IRWD Check	Negotiable
422825	11-Nov-21	KAESER COMPRESSORS, INC.	826.11	IRWD Check	Reconciled
422826	11-Nov-21	KAN VENTURES, INC	6,500.00	IRWD Check	Reconciled
422827	11-Nov-21	KUTAK ROCK LLP	6,000.00	IRWD Check	Reconciled
422828	11-Nov-21	LA HABRA FENCE COMPANY INC	4,242.00	IRWD Check	Reconciled
422829	11-Nov-21	LANDCARE HOLDINGS, INC.	12,964.85	IRWD Check	Reconciled
422830	11-Nov-21	LILLESTRAND LEADERSHIP CONSULTING, INC.	5,857.50	IRWD Check	Negotiable
422831	11-Nov-21	LU'S LIGHTHOUSE, INC.	4,440.52	IRWD Check	Reconciled
422832	11-Nov-21	MARK KADESH	10,200.00	IRWD Check	Reconciled
422833	11-Nov-21	MBF CONSULTING, INC.	22,367.20	IRWD Check	Reconciled
422834	11-Nov-21	MC MASTER CARR SUPPLY CO	723.27	IRWD Check	Reconciled
422835	11-Nov-21	MCR TECHNOLOGIES INC	4,346.64	IRWD Check	Reconciled
422836	11-Nov-21	METTLER-TOLEDO INC	260.79	IRWD Check	Reconciled
422837	11-Nov-21	MICROSOFT CORPORATION	40.00	IRWD Check	Reconciled
422838	11-Nov-21	MR CRANE INC	1,182.50	IRWD Check	Reconciled

**IRVINE RANCH WATER DISTRICT
AP DISBURSEMENTS AND VOIDS FOR NOV 2021**

CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIERS	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
422839	11-Nov-21	MSC INDUSTRIAL SUPPLY CO	270.07	IRWD Check	Reconciled
422840	11-Nov-21	MUNICIPAL WATER DISTRICT OF ORANGE COUNTY	450.00	IRWD Check	Reconciled
422841	11-Nov-21	NATURES IMAGE INC	2,975.00	IRWD Check	Reconciled
422842	11-Nov-21	NEW PIG CORPORATION	1,583.93	IRWD Check	Reconciled
422843	11-Nov-21	O.C. SUPERIOR CUSTOM CLEANING	3,600.00	IRWD Check	Reconciled
422844	11-Nov-21	OLIN CORPORATION	36,702.59	IRWD Check	Reconciled
422845	11-Nov-21	ONESOURCE DISTRIBUTORS LLC	207.52	IRWD Check	Reconciled
422846	11-Nov-21	ORANGE COUNTY AUTO PARTS CO	1,452.31	IRWD Check	Reconciled
422847	11-Nov-21	ORANGE COUNTY MOSQUITO AND VECTOR CONTROL DISTRICT	61.37	IRWD Check	Reconciled
422848	11-Nov-21	ORANGE COUNTY SANITATION DISTRICT	158,108.68	IRWD Check	Reconciled
422849	11-Nov-21	ORRICK, HERRINGTON & SUTCLIFFE LLP	6,000.00	IRWD Check	Reconciled
422850	11-Nov-21	PACIFIC PARTS & CONTROLS INC	5,302.28	IRWD Check	Reconciled
422851	11-Nov-21	PAPER DEPOT DOCUMENT DESTRUCTION LLC	153.00	IRWD Check	Reconciled
422852	11-Nov-21	PLUMBERS DEPOT INC.	3,055.77	IRWD Check	Reconciled
422853	11-Nov-21	PRUDENTIAL OVERALL SUPPLY	362.60	IRWD Check	Reconciled
422854	11-Nov-21	PYRO-COMM SYSTEMS INC	240.00	IRWD Check	Reconciled
422855	11-Nov-21	QUINN COMPANY	7,980.00	IRWD Check	Reconciled
422856	11-Nov-21	RAM AIR ENGINEERING INC	1,750.00	IRWD Check	Reconciled
422857	11-Nov-21	RELIABLE WATER SOLUTIONS, LLC	9,233.74	IRWD Check	Reconciled
422858	11-Nov-21	RENTOKIL NORTH AMERICA, INC	241.00	IRWD Check	Reconciled
422859	11-Nov-21	RESTEK CORPORATION	619.22	IRWD Check	Reconciled
422860	11-Nov-21	RICHARD C. SLADE & ASSOCIATES LLC	27,984.17	IRWD Check	Reconciled
422861	11-Nov-21	RLG ENTERPRISES, INC	219.31	IRWD Check	Reconciled
422862	11-Nov-21	RODNEY HARMSWORTH ASSOCIATES, INC.	4,580.00	IRWD Check	Reconciled
422863	11-Nov-21	SAFETY-KLEEN SYSTEMS, INC	320.00	IRWD Check	Reconciled
422864	11-Nov-21	SANTA MARGARITA FORD	562.02	IRWD Check	Reconciled
422865	11-Nov-21	SANTA MARGARITA FORD	3,135.47	IRWD Check	Reconciled
422866	11-Nov-21	SERRANO WATER DISTRICT	7,969.32	IRWD Check	Reconciled
422867	11-Nov-21	SHAMROCK SUPPLY CO INC	753.78	IRWD Check	Reconciled
422868	11-Nov-21	SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT	1,165.48	IRWD Check	Reconciled
422869	11-Nov-21	SOUTH COAST WATER DISTRICT	237.12	IRWD Check	Reconciled
422870	11-Nov-21	SOUTHERN CALIFORNIA EDISON COMPANY	1,049,738.53	IRWD Check	Reconciled
422871	11-Nov-21	SOUTHERN CALIFORNIA EDISON COMPANY	6,450.00	IRWD Check	Reconciled
422872	11-Nov-21	SPARKLETTES	172.43	IRWD Check	Reconciled
422873	11-Nov-21	STANDARD & POOR'S FINANCIAL SERVICES LLC	1,000.00	IRWD Check	Reconciled
422874	11-Nov-21	STANTEC CONSULTING SERVICES INC.	4,612.00	IRWD Check	Reconciled
422875	11-Nov-21	STRADLING YOCCA CARLSON & RAUTH	856.50	IRWD Check	Reconciled
422876	11-Nov-21	SUEZ TREATMENT SOLUTIONS INC.	16,020.75	IRWD Check	Reconciled
422877	11-Nov-21	SUKLE ADVERTISING INC.	151,064.10	IRWD Check	Reconciled
422878	11-Nov-21	SWAINS ELECTRIC MOTOR SERVICE	10,988.16	IRWD Check	Negotiable
422879	11-Nov-21	T.E. ROBERTS, INC.	18,000.00	IRWD Check	Reconciled
422880	11-Nov-21	TANKVISIONS, INC	30.00	IRWD Check	Reconciled
422881	11-Nov-21	TESCO CONTROLS, INC.	8,500.00	IRWD Check	Reconciled
422882	11-Nov-21	TETRA TECH, INC	1,720.00	IRWD Check	Reconciled
422883	11-Nov-21	THE ADT SECURITY CORPORATION	1,212.50	IRWD Check	Reconciled
422884	11-Nov-21	THOMPSON & PHIPPS INC	3,295.30	IRWD Check	Reconciled
422885	11-Nov-21	TRAFFIC MANAGEMENT, INC	19,918.50	IRWD Check	Reconciled
422886	11-Nov-21	TRENCH SHORING COMPANY	19,380.00	IRWD Check	Reconciled
422887	11-Nov-21	TRI COUNTY PUMP COMPANY	7,778.85	IRWD Check	Reconciled
422888	11-Nov-21	TRUCPARCO	2,988.23	IRWD Check	Reconciled
422889	11-Nov-21	TRUKSPECT, INC	905.88	IRWD Check	Reconciled
422890	11-Nov-21	UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA	4,731.52	IRWD Check	Negotiable
422891	11-Nov-21	UNITED PARCEL SERVICE INC	33.00	IRWD Check	Reconciled
422892	11-Nov-21	UNITED SITE SERVICES OF CALIFORNIA INC	242.57	IRWD Check	Reconciled
422893	11-Nov-21	UNIVAR SOLUTIONS USA INC.	10,470.50	IRWD Check	Reconciled
422894	11-Nov-21	VIDO ARTUKOVICH & SON, INC./VIDMAR, INC. A JV	18,348.11	IRWD Check	Reconciled
422895	11-Nov-21	VIDO ARTUKOVICH & SON, INC./VIDMAR, INC. A JV	348,614.02	IRWD Check	Reconciled
422896	11-Nov-21	WALTERS WHOLESALE ELECTRIC	14.69	IRWD Check	Reconciled
422897	11-Nov-21	WASTE MANAGEMENT COLLECTIONS AND RECYCLING, INC.	842.39	IRWD Check	Reconciled
422898	11-Nov-21	WATERLINE TECHNOLOGIES INC	2,720.00	IRWD Check	Reconciled
422899	11-Nov-21	WATERSMART SOFTWARE INC	15,174.99	IRWD Check	Negotiable
422900	11-Nov-21	WAXIE'S ENTERPRISES, INC	1,336.89	IRWD Check	Reconciled
422901	11-Nov-21	WEBER WATER RESOURCES CA, LLC	83,708.22	IRWD Check	Reconciled
422902	11-Nov-21	WECK LABORATORIES INC	4,495.00	IRWD Check	Reconciled
422903	11-Nov-21	WEST COAST SAND & GRAVEL INC.	3,823.19	IRWD Check	Reconciled
422904	11-Nov-21	WEST YOST & ASSOCIATES, INC.	1,940.50	IRWD Check	Reconciled

**IRVINE RANCH WATER DISTRICT
AP DISBURSEMENTS AND VOIDS FOR NOV 2021**

CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIERS	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
422905	11-Nov-21	WIN-911 SOFTWARE	4,460.00	IRWD Check	Reconciled
422906	11-Nov-21	XYLEM WATER SOLUTIONS USA, INC.	1,450.73	IRWD Check	Reconciled
422907	17-Nov-21	COUNTY OF ORANGE	1,750.00	IRWD Check	Reconciled
422908	18-Nov-21	Borowski, Michael (Mike)	192.00	IRWD Check	Reconciled
422909	18-Nov-21	Cook, Paul A (Paul)	12.00	IRWD Check	Reconciled
422910	18-Nov-21	Haney, Lisa	16.80	IRWD Check	Reconciled
422911	18-Nov-21	Kulick, Michael	91.00	IRWD Check	Reconciled
422912	18-Nov-21	LaMar, Steven E	82.21	IRWD Check	Reconciled
422913	18-Nov-21	McElroy, Dorien	218.00	IRWD Check	Reconciled
422914	18-Nov-21	Swan, Peer	524.56	IRWD Check	Reconciled
422915	18-Nov-21	Williams, Warren (Randy)	64.83	IRWD Check	Reconciled
422916	18-Nov-21	Withers, John B	522.98	IRWD Check	Reconciled
422917	18-Nov-21	AAF INTERNATIONAL	1,581.89	IRWD Check	Reconciled
422918	18-Nov-21	ACE INDUSTRIES, INC.	959.22	IRWD Check	Reconciled
422919	18-Nov-21	AGILENT TECHNOLOGIES, INC.	56.84	IRWD Check	Reconciled
422920	18-Nov-21	AIRGAS, INC.	1,456.57	IRWD Check	Reconciled
422921	18-Nov-21	ALBERTSON'S LLC	29,260.00	IRWD Check	Reconciled
422922	18-Nov-21	ALEXANDER'S CONTRACT SERVICES, INC.	127,961.95	IRWD Check	Reconciled
422923	18-Nov-21	ALL AMERICAN ASPHALT	79,666.60	IRWD Check	Reconciled
422924	18-Nov-21	AMAYA SOLUTIONS INC.	9,183.32	IRWD Check	Reconciled
422925	18-Nov-21	AMAZON CAPITAL SERVICES, INC.	2,285.03	IRWD Check	Reconciled
422926	18-Nov-21	ANTHEM BLUE CROSS	283.41	IRWD Check	Reconciled
422927	18-Nov-21	APPLIED ENGINEERING CONCEPTS	3,340.00	IRWD Check	Reconciled
422928	18-Nov-21	ARMORCAST PRODUCTS COMPANY	26,589.03	IRWD Check	Reconciled
422929	18-Nov-21	AT&T	175.14	IRWD Check	Reconciled
422930	18-Nov-21	AT&T	3,576.84	IRWD Check	Reconciled
422931	18-Nov-21	AUDIO FONIXX, INC.	1,728.14	IRWD Check	Reconciled
422932	18-Nov-21	AUTOMOTIVE TRAINING AUTHORITY, INC.	837.00	IRWD Check	Negotiable
422933	18-Nov-21	AUTOZONE PARTS, INC.	249.96	IRWD Check	Reconciled
422934	18-Nov-21	BARTEL ASSOCIATES, LLC	820.00	IRWD Check	Reconciled
422935	18-Nov-21	BATTERIES PLUS AND BATTERIES PLUS BULBS	4,842.91	IRWD Check	Reconciled
422936	18-Nov-21	BELL TOWER FLORIST & GIFTS	136.83	IRWD Check	Negotiable
422937	18-Nov-21	BLACK & VEATCH CORPORATION	15,934.75	IRWD Check	Reconciled
422938	18-Nov-21	BOOT WORLD, INC.	170.44	IRWD Check	Reconciled
422939	18-Nov-21	BRENNTAG PACIFIC INC	42,027.02	IRWD Check	Reconciled
422940	18-Nov-21	C WELLS PIPELINE MATERIALS INC	10,311.43	IRWD Check	Reconciled
422941	18-Nov-21	CALIFORNIA DEPARTMENT OF TAX AND FEE ADMINISTRATION	1,856.00	IRWD Check	Reconciled
422942	18-Nov-21	CALIFORNIA STATE UNIVERSITY, FULLERTON	4,704.00	IRWD Check	Negotiable
422943	18-Nov-21	CANNON CORPORATION	4,334.50	IRWD Check	Reconciled
422944	18-Nov-21	CANON FINANCIAL SERVICES, INC	8,343.52	IRWD Check	Reconciled
422945	18-Nov-21	CAROLLO ENGINEERS, INC	16,881.00	IRWD Check	Reconciled
422946	18-Nov-21	CDW GOVERNMENT LLC	39,733.85	IRWD Check	Reconciled
422947	18-Nov-21	CENTROID SYSTEMS, INC.	20,050.00	IRWD Check	Reconciled
422948	18-Nov-21	CHAIREL CUSTOM HAY, INC.	1,403.50	IRWD Check	Reconciled
422949	18-Nov-21	CHAVEZ, VICKI LYNN	2,500.00	IRWD Check	Reconciled
422950	18-Nov-21	CHEM TECH INTERNATIONAL INC	12,966.96	IRWD Check	Reconciled
422951	18-Nov-21	CIMARRON ENERGY, INC	1,508.50	IRWD Check	Reconciled
422952	18-Nov-21	CITY OF IRVINE	1,681.30	IRWD Check	Reconciled
422953	18-Nov-21	COASTAL OCCUPATIONAL MEDICAL GROUP, INC.	188.47	IRWD Check	Reconciled
422954	18-Nov-21	CONSTELLATION NEWENERGY, INC.	2,226.09	IRWD Check	Reconciled
422955	18-Nov-21	CORELOGIC INC	14.48	IRWD Check	Reconciled
422956	18-Nov-21	CROWN CASTLE INTERNATIONAL CORP.	810.35	IRWD Check	Reconciled
422957	18-Nov-21	CULLIGAN OF SANTA ANA	21,000.00	IRWD Check	Reconciled
422958	18-Nov-21	D & G SIGNS	538.75	IRWD Check	Reconciled
422959	18-Nov-21	D & H WATER SYSTEMS INC.	336.11	IRWD Check	Negotiable
422960	18-Nov-21	DATA AXLE, INC.	616.53	IRWD Check	Reconciled
422961	18-Nov-21	DCS MANAGEMENT LLC	153.68	IRWD Check	Reconciled
422962	18-Nov-21	DELL MARKETING LP	6,357.25	IRWD Check	Reconciled
422963	18-Nov-21	DEMARIA ELECTRIC MOTOR SERVICES, INC.	42,228.97	IRWD Check	Reconciled
422964	18-Nov-21	DEX MEDIA, INC.	91.00	IRWD Check	Reconciled
422965	18-Nov-21	DILYTICS INC	2,800.00	IRWD Check	Reconciled
422966	18-Nov-21	DRAKE TRAFFIC CONTROL SERVICES INC	5,700.00	IRWD Check	Reconciled
422967	18-Nov-21	ELITE EQUIPMENT, INC.	999.81	IRWD Check	Reconciled
422968	18-Nov-21	ENTERPRISE HOLDINGS, INC.	8,841.93	IRWD Check	Reconciled
422969	18-Nov-21	ENVIRONMENTAL ENGINEERING AND CONTRACTING, INC.	9,287.50	IRWD Check	Reconciled
422970	18-Nov-21	ENVIRONMENTAL EXPRESS INC	1,261.22	IRWD Check	Reconciled

**IRVINE RANCH WATER DISTRICT
AP DISBURSEMENTS AND VOIDS FOR NOV 2021**

CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIERS	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
422971	18-Nov-21	ENVIRONMENTAL RESOURCE ASSOCIATES	704.33	IRWD Check	Reconciled
422972	18-Nov-21	EQUALTOX, LLC	7,750.00	IRWD Check	Reconciled
422973	18-Nov-21	EUROFINS CALSCIENCE, LLC	2,005.50	IRWD Check	Reconciled
422974	18-Nov-21	EUROFINS CALSCIENCE, LLC	1,005.00	IRWD Check	Reconciled
422975	18-Nov-21	EXTTI , INCORPORATED	5,637.50	IRWD Check	Reconciled
422976	18-Nov-21	FARRELL & ASSOCIATES	152.10	IRWD Check	Reconciled
422977	18-Nov-21	FEDEX	312.41	IRWD Check	Reconciled
422978	18-Nov-21	FERGUSON ENTERPRISES, LLC	1,526.88	IRWD Check	Reconciled
422979	18-Nov-21	FERREIRA CONSTRUCTION COMPANY, INC.	32,610.35	IRWD Check	Reconciled
422980	18-Nov-21	FIDELITY SECURITY LIFE INSURANCE COMPANY	746.26	IRWD Check	Reconciled
422981	18-Nov-21	FIDELITY SECURITY LIFE INSURANCE COMPANY	6,669.47	IRWD Check	Reconciled
422982	18-Nov-21	FIREHOSEDIRECT.COM	473.24	IRWD Check	Reconciled
422983	18-Nov-21	FISHER SCIENTIFIC COMPANY LLC	5,001.10	IRWD Check	Reconciled
422984	18-Nov-21	FRANCHISE TAX BOARD	400.00	IRWD Check	Negotiable
422985	18-Nov-21	FRONTIER CALIFORNIA INC.	58.67	IRWD Check	Reconciled
422986	18-Nov-21	FULLER TRUCK ACCESSORIES	1,325.33	IRWD Check	Reconciled
422987	18-Nov-21	GANAHL LUMBER CO.	963.24	IRWD Check	Reconciled
422988	18-Nov-21	GARY BALE REDI-MIX CONCRETE, INC.	1,502.48	IRWD Check	Reconciled
422989	18-Nov-21	GEORGE HILLS COMPANY, INC.	36.00	IRWD Check	Reconciled
422990	18-Nov-21	GI ENDURANT LLC	41,500.02	IRWD Check	Reconciled
422991	18-Nov-21	GIERLICH-MITCHELL, INC.	2,729.01	IRWD Check	Reconciled
422992	18-Nov-21	GRAINGER	8,083.86	IRWD Check	Reconciled
422993	18-Nov-21	GRANICUS, LLC	1,818.70	IRWD Check	Reconciled
422994	18-Nov-21	GRAYBAR ELECTRIC COMPANY	9,136.24	IRWD Check	Reconciled
422995	18-Nov-21	HACH COMPANY	292.57	IRWD Check	Reconciled
422996	18-Nov-21	HARRINGTON INDUSTRIAL PLASTICS LLC	1,772.06	IRWD Check	Reconciled
422997	18-Nov-21	HAZEN AND SAWYER	27,627.73	IRWD Check	Reconciled
422998	18-Nov-21	HDR ENGINEERING INC	27,180.77	IRWD Check	Reconciled
422999	18-Nov-21	HELPMATES STAFFING SERVICES LLC	2,258.70	IRWD Check	Reconciled
423000	18-Nov-21	HI-LINE INC	401.76	IRWD Check	Reconciled
423001	18-Nov-21	HILL BROTHERS CHEMICAL COMPANY	9,665.23	IRWD Check	Negotiable
423002	18-Nov-21	HOME DEPOT USA INC	231.78	IRWD Check	Reconciled
423003	18-Nov-21	IDEXX DISTRIBUTION, INC	14,938.13	IRWD Check	Reconciled
423004	18-Nov-21	INFOSEND, INC.	48,473.94	IRWD Check	Reconciled
423005	18-Nov-21	INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS LOCAL 47	3,186.17	IRWD Check	Reconciled
423006	18-Nov-21	IRVINE PIPE & SUPPLY INC	6,296.04	IRWD Check	Reconciled
423007	18-Nov-21	IRWD-PETTY CASH CUSTODIAN	1,259.92	IRWD Check	Reconciled
423008	18-Nov-21	JCI JONES CHEMICALS INC	3,723.21	IRWD Check	Reconciled
423009	18-Nov-21	JPR SYSTEMS INC	2,356.00	IRWD Check	Reconciled
423010	18-Nov-21	LA HABRA FENCE COMPANY INC	3,917.00	IRWD Check	Reconciled
423011	18-Nov-21	LANDCARE HOLDINGS, INC.	54,257.00	IRWD Check	Reconciled
423012	18-Nov-21	LCS TECHNOLOGIES, INC.	14,040.00	IRWD Check	Negotiable
423013	18-Nov-21	LIEBERT CASSIDY WHITMORE	2,063.00	IRWD Check	Reconciled
423014	18-Nov-21	LIFT-IT MANUFACTURING CO., INC.	1,342.66	IRWD Check	Reconciled
423015	18-Nov-21	LINDE GAS & EQUIPMENT INC.	4,498.47	IRWD Check	Reconciled
423016	18-Nov-21	LINE-X OF SOUTH COAST	1,574.00	IRWD Check	Reconciled
423017	18-Nov-21	LU'S LIGHTHOUSE, INC.	1,440.59	IRWD Check	Reconciled
423018	18-Nov-21	MBC AQUATIC SCIENCES, INC.	1,400.00	IRWD Check	Reconciled
423019	18-Nov-21	MC FADDEN-DALE INDUSTRIAL	704.44	IRWD Check	Reconciled
423020	18-Nov-21	MC MASTER CARR SUPPLY CO	264.08	IRWD Check	Reconciled
423021	18-Nov-21	MERRIMAC PETROLEUM, INC.	28,868.56	IRWD Check	Reconciled
423022	18-Nov-21	MICROSOFT CORPORATION	534.29	IRWD Check	Reconciled
423023	18-Nov-21	MILES CHEMICAL COMPANY, INC.	5,775.75	IRWD Check	Reconciled
423024	18-Nov-21	MORGAN COMPANY	502.86	IRWD Check	Reconciled
423025	18-Nov-21	MSDSONLINE, INC.	1,200.00	IRWD Check	Reconciled
423026	18-Nov-21	MUTUAL PROPANE	214.04	IRWD Check	Reconciled
423027	18-Nov-21	NATIONAL READY MIXED CONCRETE SALES, LLC	1,076.66	IRWD Check	Reconciled
423028	18-Nov-21	NEWMAN, DEE ANN	2,500.00	IRWD Check	Reconciled
423029	18-Nov-21	NEWMAN, ROBERT CARL	2,500.00	IRWD Check	Reconciled
423030	18-Nov-21	NEWMAN, RYAN ALAN	2,500.00	IRWD Check	Reconciled
423031	18-Nov-21	NV5, INC.	19,040.00	IRWD Check	Reconciled
423032	18-Nov-21	O'REILLY AUTO ENTERPRISES, LLC	127.76	IRWD Check	Reconciled
423033	18-Nov-21	OLIN CORPORATION	13,303.70	IRWD Check	Reconciled
423034	18-Nov-21	OLSON REMCHO LLP	2,040.50	IRWD Check	Reconciled
423035	18-Nov-21	ONESOURCE DISTRIBUTORS LLC	5,791.56	IRWD Check	Reconciled
423036	18-Nov-21	ORACLE AMERICA, INC.	67.28	IRWD Check	Reconciled

**IRVINE RANCH WATER DISTRICT
AP DISBURSEMENTS AND VOIDS FOR NOV 2021**

CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIERS	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
423037	18-Nov-21	ORANGE COUNTY AUTO PARTS CO	145.78	IRWD Check	Reconciled
423038	18-Nov-21	ORANGE COUNTY FIRE AUTHORITY	1,123.00	IRWD Check	Reconciled
423039	18-Nov-21	ORANGE COUNTY MOSQUITO AND VECTOR CONTROL DISTRICT	3,308.22	IRWD Check	Reconciled
423040	18-Nov-21	ORANGE COUNTY SANITATION DISTRICT	2,850.00	IRWD Check	Reconciled
423041	18-Nov-21	ORANGE COUNTY SANITATION DISTRICT	19,960.00	IRWD Check	Reconciled
423042	18-Nov-21	ORIGIN CONSULTING LLC	77,959.96	IRWD Check	Reconciled
423043	18-Nov-21	PACIFIC HYDROTECH CORPORATION	6,398.97	IRWD Check	Reconciled
423044	18-Nov-21	PACIFIC HYDROTECH CORPORATION	46,364.71	IRWD Check	Reconciled
423045	18-Nov-21	PACIFIC HYDROTECH CORPORATION	5,750.00	IRWD Check	Reconciled
423046	18-Nov-21	PACIFIC HYDROTECH CORPORATION	1,108,705.39	IRWD Check	Reconciled
423047	18-Nov-21	PACIFIC PARTS & CONTROLS INC	4,829.40	IRWD Check	Reconciled
423048	18-Nov-21	PARKHOUSE TIRE INC	7,829.27	IRWD Check	Reconciled
423049	18-Nov-21	PAYNE & FEARS LLP	605.00	IRWD Check	Reconciled
423050	18-Nov-21	PENN ARCHIVE SERVICES	67.82	IRWD Check	Reconciled
423051	18-Nov-21	PERKINELMER HEALTH SCIENCES INC	46.55	IRWD Check	Reconciled
423052	18-Nov-21	PERS LONG TERM CARE	447.62	IRWD Check	Reconciled
423053	18-Nov-21	PILLSBURY WINTHROP SHAW PITTMAN LLP	1,184.00	IRWD Check	Reconciled
423054	18-Nov-21	PLUMBERS DEPOT INC.	3,338.31	IRWD Check	Reconciled
423055	18-Nov-21	PROGRESSIVE WATER TREATMENT INC	71,214.00	IRWD Check	Reconciled
423056	18-Nov-21	PRUDENTIAL OVERALL SUPPLY	11,847.66	IRWD Check	Reconciled
423057	18-Nov-21	PYRO-COMM SYSTEMS INC	715.00	IRWD Check	Reconciled
423058	18-Nov-21	QUINTANA, WATTS & HARTMANN, LLC	5,150.00	IRWD Check	Reconciled
423059	18-Nov-21	RAM AIR ENGINEERING INC	4,438.25	IRWD Check	Reconciled
423060	18-Nov-21	REACH EMPLOYEE ASSISTANCE INC	1,066.80	IRWD Check	Negotiable
423061	18-Nov-21	RED WING SHOE STORE	544.24	IRWD Check	Reconciled
423062	18-Nov-21	REFRIGERATION SUPPLIES DISTRIBUTOR	77.63	IRWD Check	Reconciled
423063	18-Nov-21	RELIANCE STANDARD LIFE INSURANCE COMPANY	31,094.44	IRWD Check	Reconciled
423064	18-Nov-21	RENTOKIL NORTH AMERICA, INC	24,679.00	IRWD Check	Reconciled
423065	18-Nov-21	ROSEDALE - RIO BRAVO WATER STORAGE DISTRICT	290,059.78	IRWD Check	Reconciled
423066	18-Nov-21	SANTA ANA BLUE PRINT	324.94	IRWD Check	Reconciled
423067	18-Nov-21	SANTA MARGARITA FORD	82.59	IRWD Check	Reconciled
423068	18-Nov-21	SECURITAS SECURITY SERVICES USA, INC.	58,187.29	IRWD Check	Reconciled
423069	18-Nov-21	SHOETERIA	200.00	IRWD Check	Reconciled
423070	18-Nov-21	SI TESTING	9,250.00	IRWD Check	Reconciled
423071	18-Nov-21	SOURCEMEDIA LLC	3,350.00	IRWD Check	Reconciled
423072	18-Nov-21	SOUTH COAST WATER CO.	95.00	IRWD Check	Reconciled
423073	18-Nov-21	SOUTH COAST WATER DISTRICT	937.17	IRWD Check	Reconciled
423074	18-Nov-21	SOUTHERN CALIFORNIA EDISON COMPANY	25,542.63	IRWD Check	Reconciled
423075	18-Nov-21	SOUTHERN CALIFORNIA GAS COMPANY	32,324.23	IRWD Check	Reconciled
423076	18-Nov-21	SPARKLETT'S	137.32	IRWD Check	Reconciled
423077	18-Nov-21	SPATIAL WAVE, INC.	4,440.00	IRWD Check	Reconciled
423078	18-Nov-21	SUNSHINE SUPPLY COMPANY, INC.	2,051.03	IRWD Check	Reconciled
423079	18-Nov-21	SURF CITY AUTO GROUP	66,807.08	IRWD Check	Reconciled
423080	18-Nov-21	SUSAN A. SIROTA	9,510.00	IRWD Check	Reconciled
423081	18-Nov-21	TETRA TECH, INC	20,510.00	IRWD Check	Reconciled
423082	18-Nov-21	THE PAPE' GROUP INC.	41.68	IRWD Check	Reconciled
423083	18-Nov-21	THOMPSON & PHIPPS INC	5,221.41	IRWD Check	Reconciled
423084	18-Nov-21	TOTAL RESOURCE MANAGEMENT, INC	10,060.00	IRWD Check	Reconciled
423085	18-Nov-21	TRAFFIC MANAGEMENT, INC	11,068.00	IRWD Check	Reconciled
423086	18-Nov-21	TRICENTIS AMERICAS, INC.	5,788.13	IRWD Check	Reconciled
423087	18-Nov-21	UNITED PARCEL SERVICE INC	33.00	IRWD Check	Reconciled
423088	18-Nov-21	VAUGHAN'S INDUSTRIAL REPAIR CO INC	2,374.00	IRWD Check	Reconciled
423089	18-Nov-21	VWR INTERNATIONAL, LLC	796.60	IRWD Check	Reconciled
423090	18-Nov-21	WASTE MANAGEMENT COLLECTIONS AND RECYCLING, INC.	4,716.50	IRWD Check	Reconciled
423091	18-Nov-21	WATER TREATMENT CHEMICALS INC	13,821.60	IRWD Check	Reconciled
423092	18-Nov-21	WAXIE'S ENTERPRISES, INC	560.48	IRWD Check	Reconciled
423093	18-Nov-21	WEST COAST SAND & GRAVEL INC.	1,084.24	IRWD Check	Reconciled
423094	18-Nov-21	WEST YOST & ASSOCIATES, INC.	2,010.50	IRWD Check	Reconciled
423095	18-Nov-21	WESTAMERICA COMMUNICATIONS, INC.	937.50	IRWD Check	Reconciled
423096	18-Nov-21	WISCONSIN STATE LABORATORY OF HYGIENE	1,015.00	IRWD Check	Reconciled
423097	18-Nov-21	WORKFORCE SAFETY LLC	4,500.00	IRWD Check	Reconciled
423098	18-Nov-21	CONSTELLATION NEWENERGY, INC.	129,093.83	IRWD Check	Reconciled
423099	23-Nov-21	JCI JONES CHEMICALS INC	3,970.41	IRWD Check	Negotiable
SUB-TOTAL CHECK DISBURSEMENTS			8,678,527.85		
14609	1-Nov-21	CHARD SNYDER & ASSOCIATES, INC.	20,582.44	IRWD Wire	Negotiable
14610	1-Nov-21	CHARD SNYDER & ASSOCIATES, INC.	3,170.06	IRWD Wire	Negotiable

**IRVINE RANCH WATER DISTRICT
AP DISBURSEMENTS AND VOIDS FOR NOV 2021**

CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIERS	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
14611	2-Nov-21	YORK RISK SERVICES GROUP, INC.	9,138.34	IRWD Wire	Negotiable
14612	4-Nov-21	EMPLOYMENT DEVELOPMENT DEPARTMENT	4,061.02	IRWD Wire	Negotiable
14613	4-Nov-21	INTERNAL REVENUE SERVICE	235,835.48	IRWD Wire	Negotiable
14614	4-Nov-21	FRANCHISE TAX BOARD	74,433.63	IRWD Wire	Negotiable
14615	4-Nov-21	CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES	3,024.08	IRWD Wire	Negotiable
14616	4-Nov-21	EMPLOYMENT DEVELOPMENT DEPARTMENT	15,236.01	IRWD Wire	Negotiable
14617	4-Nov-21	GREAT-WEST LIFE & ANNUITY INSURANCE COMPANY	163,044.91	IRWD Wire	Negotiable
14618	4-Nov-21	CALPERS	247,376.87	IRWD Wire	Negotiable
14619	8-Nov-21	CHARD SNYDER & ASSOCIATES, INC.	1,896.38	IRWD Wire	Negotiable
14620	8-Nov-21	CHARD SNYDER & ASSOCIATES, INC.	5,545.04	IRWD Wire	Negotiable
14621	8-Nov-21	BANK OF NEW YORK MELLON TRUST COMPANY NA	4,844.51	IRWD Wire	Negotiable
14622	8-Nov-21	BANK OF AMERICA	561.70	IRWD Wire	Negotiable
14623	8-Nov-21	U.S. BANK NATIONAL ASSOCIATION	643.90	IRWD Wire	Negotiable
14624	8-Nov-21	U.S. BANK NATIONAL ASSOCIATION	278.50	IRWD Wire	Negotiable
14625	8-Nov-21	SUMITOMO MITSUI BANKING CORPORATION	1,990.95	IRWD Wire	Negotiable
14626	10-Nov-21	YORK RISK SERVICES GROUP, INC.	12,593.03	IRWD Wire	Negotiable
14627	10-Nov-21	CALPERS	1,373.37	IRWD Wire	Negotiable
14628	11-Nov-21	BANK OF NEW YORK MELLON TRUST COMPANY NA	5,842.39	IRWD Wire	Negotiable
14629	11-Nov-21	BANK OF NEW YORK MELLON TRUST COMPANY NA	566.62	IRWD Wire	Negotiable
14630	15-Nov-21	CHARD SNYDER & ASSOCIATES, INC.	981.29	IRWD Wire	Negotiable
14631	15-Nov-21	CHARD SNYDER & ASSOCIATES, INC.	4,423.05	IRWD Wire	Negotiable
14632	15-Nov-21	WELLS FARGO BANK, N.A.	5,820.72	IRWD Wire	Negotiable
14633	15-Nov-21	CALPERS	549,640.58	IRWD Wire	Negotiable
14634	15-Nov-21	CALPERS	3,140.59	IRWD Wire	Negotiable
14635	16-Nov-21	YORK RISK SERVICES GROUP, INC.	9,026.73	IRWD Wire	Negotiable
14636	18-Nov-21	INTERNAL REVENUE SERVICE	291,444.86	IRWD Wire	Negotiable
14637	18-Nov-21	GREAT-WEST LIFE & ANNUITY INSURANCE COMPANY	218,066.41	IRWD Wire	Negotiable
14638	18-Nov-21	FRANCHISE TAX BOARD	90,977.75	IRWD Wire	Negotiable
14639	18-Nov-21	EMPLOYMENT DEVELOPMENT DEPARTMENT	16,303.96	IRWD Wire	Negotiable
14640	18-Nov-21	CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES	3,024.08	IRWD Wire	Negotiable
14641	18-Nov-21	CALPERS	246,194.21	IRWD Wire	Negotiable
14642	22-Nov-21	CHARD SNYDER & ASSOCIATES, INC.	7,137.95	IRWD Wire	Negotiable
14643	22-Nov-21	CHARD SNYDER & ASSOCIATES, INC.	6,732.05	IRWD Wire	Negotiable
14644	22-Nov-21	BANK OF NEW YORK MELLON TRUST COMPANY NA	5,771.86	IRWD Wire	Negotiable
14645	22-Nov-21	BANK OF NEW YORK MELLON TRUST COMPANY NA	355.56	IRWD Wire	Negotiable
14646	22-Nov-21	MUNICIPAL WATER DISTRICT OF ORANGE COUNTY	2,288,350.44	IRWD Wire	Negotiable
14647	23-Nov-21	YORK RISK SERVICES GROUP, INC.	4,334.28	IRWD Wire	Negotiable
14648	23-Nov-21	CHARD SNYDER & ASSOCIATES, INC.	1,494.20	IRWD Wire	Negotiable
14649	29-Nov-21	CHARD SNYDER & ASSOCIATES, INC.	2,217.11	IRWD Wire	Negotiable
14650	29-Nov-21	CHARD SNYDER & ASSOCIATES, INC.	4,429.69	IRWD Wire	Negotiable
14651	29-Nov-21	BANK OF NEW YORK MELLON TRUST COMPANY NA	3,914.84	IRWD Wire	Negotiable
14652	30-Nov-21	YORK RISK SERVICES GROUP, INC.	7,455.23	IRWD Wire	Negotiable
14653	30-Nov-21	BANK OF NEW YORK MELLON TRUST COMPANY NA	5,197.01	IRWD Wire	Negotiable
SUB-TOTAL ELECTRONIC DISBURSEMENTS			4,588,473.68		
SUB-TOTAL AP CHECK AND ELECTRONIC DISBURSEMENTS			13,267,001.53		
SUB-TOTAL CHECK ISSUED AND VOIDED IN NOVEMBER 2021			-		
TOTAL AP DISBURSEMENTS AND VOIDS FOR NOVEMBER 2021			13,267,001.53		-

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Exhibit "E"

MONTHLY SUMMARY OF PAYROLL ACH PAYMENTS

**November
2021**

	AMOUNT	VENDOR	PURPOSE
11/5/2021	1,078,739.83	BANK OF AMERICA	ACH Payments for Payroll
11/19/2021	1,333,931.31	BANK OF AMERICA	ACH Payments for Payroll
	<u><u>\$2,412,671.14</u></u>		

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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-NOV-21 to 30-NOV-21

NAME	CHECK NO.	CHECK DATE	AMOUNT	ITEM DESCRIPTION	EXPENSE JUSTIFICATION
Beltran, Benjamin Vega	422746	4-Nov-21	125.00	Certification Renewal	SWRCB Wastewater Treatment Plant Operator Grade I
Borowski, Mike	422908	18-Nov-21	192.00	Membership Renewal	CWEA membership
Clinton, Bryan	422747	4-Nov-21	105.00	Certification Renewal	SWRCB Water Treatment Grade IV
Joseph, Brandon	422577	4-Nov-21	192.00	Membership Renewal	CWEA membership
Joseph, Brandon	422577	4-Nov-21	101.00	Certification Renewal	CWEA Collection System Maintenance Grade III
McElroy, Dorien	422913	18-Nov-21	218.00	Certification Renewal	CWEA Environments Compliance Inspector Grade I
Moore, Jonathon	422578	4-Nov-21	165.53	Certification Renewal	SWRCB CEU's Course for Water Distribution Grade IV
Moore, Jonathon	422578	4-Nov-21	105.00	Certification Renewal	SWRCB Water Distribution Operator Grade IV
Murphy, Alex	422749	11-Nov-21	180.00	Certification Renewal	Professional Engineers license renewal
Murphy, Alex	422749	11-Nov-21	192.00	Membership Renewal	CWEA membership
Nieto, Augie	422750	11-Nov-21	150.00	Certification Renewal	SWRCB Wastewater Treatment Grade V
Perez, David	422580	4-Nov-21	192.00	Membership Renewal	CWEA membership
Swan, Peer	422914	18-Nov-21	309.98	Lodging	CASA Annual Summer Conference, San Diego, CA - August 12, 2021
Valencia, Rey	422581	4-Nov-21	130.00	Certification Renewal	SWRCB Water Distribution Grade II
Withers, John	422916	18-Nov-21	309.98	Lodging	CASA Annual Summer Conference, San Diego, CA - August 12, 2021
Total Amount:			\$2,667.49		

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December 13, 2021
Prepared by: J. Davis
Submitted by: R. Jacobson / C. Clary
Approved by: Paul Cook 

CONSENT CALENDAR

IRWD INVESTMENT POLICY FOR 2022

SUMMARY:

Each year, the District is required to adopt an Investment Policy. Changes to the policy from year to year are required to conform to any amendments to the California Government Code governing investment of public funds. During 2021, there were no significant changes to the Government Code and the proposed policy for 2022 has no significant changes from the policy adopted for 2021. Staff recommends the Board adopt a resolution approving the proposed IRWD 2022 Investment Policy.

BACKGROUND:

Staff annually submits an Investment Policy to the Board of Directors for approval. The annual submittal generally incorporates amendments to investment-related Government Code sections, policy objectives, delegation of authority and a detailed schedule of authorized investments. The proposed 2022 Investment Policy and related resolution are provided as Exhibits “A” and “B”, respectively. During 2021, there were no significant amendments to the Government Code section relating to authorized investments for local agencies, and therefore the 2022 proposed policy is generally the same as the 2021 Investment Policy.

As specified in the Government Code, the Board’s delegation of authority to the Treasurer and Assistant Treasurer(s) to manage the District’s investment program is limited to a one-year period, renewable annually. The recommended 2022 Investment Policy includes continuation of this annual delegation of authority to the Treasurer and Assistant Treasurer(s).

Given the conservative nature of the State codes and the Board’s additional restrictions, staff believes the authorized investments in the recommended 2022 Investment Policy are sufficiently limited to ensure appropriate investment security while retaining some degree of flexibility to take advantage of changing market opportunities. Additionally, the recommended policy provides authority for the Finance and Personnel Committee to further restrict, but not liberalize, authorized investments. Any liberalization of authorized investments would first require the approval of the Board of Directors.

FISCAL IMPACTS:

None.

ENVIRONMENTAL COMPLIANCE:

This activity is categorically exempt from the California Environmental Quality Act (CEQA) as authorized under the California Code of Regulations, Title 14, Chapter 3, Sections 15301 and 15302.

COMMITTEE STATUS:

This item was reviewed by the Finance and Personnel Committee on December 7, 2021.

RECOMMENDATION:

THAT THE BOARD APPROVE THE PROPOSED IRWD 2022 INVESTMENT POLICY AND ADOPT THE FOLLOWING RESOLUTION BY TITLE:

RESOLUTION NO. 2021-

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

LIST OF EXHIBITS:

Exhibit "A" – Proposed IRWD 2022 Investment Policy

Exhibit "B" – Resolution Adopting 2022 IRWD Investment Policy

Exhibit “A”

IRVINE RANCH WATER DISTRICT

2022 INVESTMENT POLICY

Introduction:

This investment policy is intended to establish a clear understanding of the District’s authorized investment activities for members of the public, the Board of Directors of the Irvine Ranch Water District (the “District”), District management, and outside investment professionals.

Policy:

It is the policy of the District to invest its funds in a prudent and professional manner which will provide maximum security of principal while meeting required cash flow demands and conforming to all State statutes governing the investment of public funds, the District’s investment policies, and prudent cash management principles.

Scope:

This investment policy applies to all District funds that are under the direct oversight of the Board of Directors. The investment of any bond proceeds or related funds will also be made in accordance with this investment policy.

Standard of Care:

The Board of Directors and those persons authorized to make investment decisions on behalf of the District are trustees of public funds. The standard of care to be used in all investment transactions shall be the “prudent investor” standard set forth in California Government Code Section 53600.3, which states:

“When investing, reinvesting, purchasing, acquiring, exchanging, selling, or managing public funds, a trustee shall act with care, skill, prudence, and diligence under the circumstances then prevailing, including, but not limited to, the general economic conditions and the anticipated needs of the agency, that a prudent person acting in a like capacity and familiarity with those matters would use in the conduct of funds of a like character and with like aims, to safeguard the principal and maintain the liquidity needs of the agency.”

Officers and employees of the District involved in the investment process shall refrain from personal business activities that could conflict with proper execution of the investment program or could impair their ability to make impartial investment decisions. “Designated employees” of the District involved in the investment of District funds, which includes the Treasurer and Assistant Treasurer(s), shall disclose all information at the times and in the manner required by the District’s Conflict of Interest Code.

Objectives:

The primary objectives of the District's investment activities, in priority order, are as follows:

1. Safety: Safety of principal is the foremost objective of the investment program. Investments of the District shall be undertaken in a manner that seeks to ensure the preservation of capital in the overall portfolio. Accordingly, diversification by issuer, type, and maturity of securities will be made to avoid or minimize potential losses on individual securities.
2. Liquidity: The District's investment portfolio will remain sufficiently liquid to enable the District to meet all operating and capital cash requirements. To the extent required, this liquidity will be maintained through the purchase of securities with active secondary or resale markets and with short-term maturities to minimize market risk on the market price of the securities.
3. Yield: The District's investment portfolio shall be designed with the objective of attaining the highest rate of return commensurate with the above requirements for the preservation of capital and the maintenance of adequate liquidity.

Delegation of Authority:

In accordance with Government Code Sections 53607 and 53608, the Board of Directors hereby delegates to the District's Treasurer and Assistant Treasurer(s) the authority to manage the District's investment program and to provide for the safekeeping of securities. This delegated authority is effective for the 2022 calendar year (Resolution 2021-25).

Authorized Investments:

The District is authorized to invest its funds pursuant to the following laws:

California Government Code:

- Section 53600 *et seq.* - General investments
- Section 16429.1 - Local Agency Investment Fund (LAIF)
- Section 53684 - Orange County Treasury Pool (not currently authorized by the Board of Directors)
- Section 5920 *et seq.* - Public finance contracts

California Water Code:

- Section 35912 - Real estate

The language of the Investment Policy will conform to the statutory requirements as the statutes change over time.

The Treasurer and Assistant Treasurer(s) are authorized to invest District funds in accordance with these laws, subject to certain restrictions imposed by the District's Board of Directors. These authorized investments and restrictions are shown in Attachment "A".

Whenever practical, a competitive process shall be used for the purchase and sale of securities.

The Treasurer and Assistant Treasurer(s) are authorized to invest in securities with terms or remaining maturities in excess of five years as part of the District's investment program, but no such investments are to be made without the concurrence of the Finance and Personnel Committee.

Authorized Financial Institutions:

Only financial institutions designated as "primary dealers" by the Federal Reserve Bank of New York, or other dealers that qualify under Securities and Exchange Commission Rule 15C3-1 (uniform net capital rule), are authorized to provide investment services to the District. The Treasurer may limit the number of dealers authorized to provide such services.

A copy of the District's annual investment policy shall be provided to each institution authorized by the Treasurer to provide services to the District. Prior to providing investment services, such financial institution shall acknowledge in writing that it has received the District's investment policy and that all persons handling the District's account have reviewed the policy.

All authorized financial institutions are required to send the District unaudited quarterly and audited annual financial statements or provide electronic access to the financial statements.

Safekeeping and Custody:

All security transactions entered into by the District shall be conducted on a delivery-versus-payment (DVP) basis. All securities owned by the District shall be delivered to the District by book entry, physical delivery, or a third-party custodial agreement. Any third-party custodian shall be designated by the Treasurer, and all securities held by such custodian, including book entry and physical securities, shall be held in a manner that clearly establishes the District's right of ownership. The District's custodial agent shall meet the requirements of Government Code Section 53608. The District's deposits with LAIF or any other authorized investment pool shall be evidenced by the standard reporting requirements of LAIF or the investment pool.

Reporting:

The Treasurer shall file a monthly report with the Board of Directors at a public meeting that shows the status of the District's cash and securities, and all related investment transactions that occurred during the month. The status report shall also be filed with the District's General Manager and will include at least the following information:

- Type of investment;
- Original cost;
- Issuing institution;
- Market value, including source;
- Paramount;
- Maturity date; and
- Coupon and/or yield

In addition, the status report shall include the portfolio's rate of return for the month, the average weighted life of the portfolio, a statement regarding the portfolio's compliance with the District's investment policy, and a statement regarding the District's ability to meet expenditure requirements over the following six months. (California Government Code Sections 53607 and 53646.)

The Treasurer shall also file a quarterly report with the Board of Directors at a public meeting with respect to the District's real estate investments and any related transactions which occurred during such quarter. The real estate report will be structured to comply as closely as possible with the information requirements of California Government Code Section 53646.

Investment Policy Adoption and Amendments:

The Treasurer shall submit an investment policy at least annually to the Board of Directors at a public meeting. (California Government Code Section 53646.) The policy shall be effective for the calendar year specified. If the Board of Directors does not approve an investment policy for any calendar year, then the investment policy for the previous calendar year shall remain in effect until a new policy is approved.

The District's Finance and Personnel Committee is authorized to make changes in the investment policy from time to time as may be necessary, provided that such changes may only be more restrictive in nature. Any changes that would liberalize the investment policy shall be approved by the Board of Directors before becoming effective. Any changes in the investment policy by the Finance and Personnel Committee shall be reported to the Board of Directors at its next regular meeting.

Attachment A

Authorized Investments and Restrictions

INVESTMENT TYPE	DESCRIPTION	RESTRICTIONS
California State and Local Agency Bonds, Notes and Warrants	Registered state warrants, treasury notes or bonds. Any bonds, notes, warrants or other evidences of indebtedness of any local agency in California.	Limited to securities approved by the Finance and Personnel Committee.
U.S. Treasury and Agency Obligations	U.S. Treasury notes, bonds, bills or certificates of indebtedness, or those for which the full faith and credit of the United States are pledged for the payment of principal and interest. Also, federal agency or U.S. government sponsored enterprise obligations, participations, or other instruments.	No additional restrictions.
Registered treasury notes or bonds of California or other 49 United States	Registered treasury notes or bonds of any of the other 49 United States in addition to California, including bonds payable solely out of the revenues from a revenue-producing property owned, controlled, or operated by a state or by a department, board, agency, or authority of any of the other 49 United States, in addition to California.	Limited to states and/or agencies approved by the Finance and Personnel Committee.
Banker's Acceptances	Must be eligible for discount at the Federal Reserve Bank. May not exceed 180 days maturity or 40% of local agency funds. No more than 30% of local agency funds may be invested in banker's acceptances of any one commercial bank.	Limited to domestic and foreign banks approved by the Finance and Personnel Committee.
U.S. Dollar Denominated Senior Unsecured Unsubordinated Obligations	Permits United States dollar-denominated senior unsecured unsubordinated obligations issued or unconditionally guaranteed by the International Bank for Reconstruction and Development, International Finance Corporation, or Inter-American Development Bank, with a maximum remaining maturity of five years or less, and eligible for purchase and sale within the United States. Must be rated "AA" or its equivalent or better by a nationally recognized statistical rating organization ("NRSRO"). Limited to 30% of local agency funds.	Limited to securities approved by the Finance and Personnel Committee.

INVESTMENT TYPE	DESCRIPTION	RESTRICTIONS
Commercial Paper	Must be of “prime” quality of the highest ranking or of the highest letter and number rating as provided for by an NRSRO. Issuers must be organized and operating in the United States as a general corporation, have assets exceeding \$500 million, and has debt other than commercial paper, if any, that is rated “A” or its equivalent or better by an NRSRO. May not exceed 270 days maturity. Local agencies, that have less than \$100 million of investment assets under management may invest no more than 25% of their moneys in eligible commercial paper. Local agencies that have \$100 million or more of investment assets under management may invest up to 40% percent of their moneys in eligible commercial paper. A local agency may invest no more than 10% of its total investment assets in the commercial paper and the medium-term notes of any single issuer.	Limited to corporations approved by the Finance and Personnel Committee.
Negotiable Certificates of Deposit	Issued by national or state-chartered banks, savings associations, federal associations, state or federal credit unions, or by a federally licensed or state-licensed branch of a foreign bank. Specified restrictions on credit unions for conflicts of interest. Limited to 30% of local agency funds.	Limited to domestic and foreign banks and thrift institutions approved by the Finance and Personnel Committee.
Repurchase and Reverse Repurchase Agreements	Repurchase agreements are limited to a term of one year or less, and securities underlying the agreement shall be valued at 102% or greater of the funds borrowed against the securities, with the value adjusted at least quarterly. Reverse repurchase agreements, including securities lending agreements, are limited to 20% of the base portfolio value and to terms of 92 days or less unless a minimum earning or spread for the entire term is guaranteed in writing. Securities being sold on reverse must be owned by the agency for at least 30 days prior to sale. Reverse repurchase agreements shall be made with primary dealers of the Federal Reserve Bank of New York, or nationally and state chartered banks with a significant banking relationship with the local agency.	All reverse repurchase agreements must have the prior approval of the Finance and Personnel Committee.

INVESTMENT TYPE	DESCRIPTION	RESTRICTIONS
Medium Term Notes	All debt securities issued by U.S. organized and operating corporations or depository institutions licensed by the U.S. or any state and operating within the U.S. Notes must be rated "A" or its equivalent or better by an NRSRO. May not exceed five years maturity, 30% of local agency funds, and no more than 10% of its total investment assets in the commercial paper and the medium-term notes of any single issuer.	For depository institutions, same as shown under Negotiable Certificates of Deposit. For corporations, limited to those approved by the Finance and Personnel Committee.
Shares of Beneficial Interest	Issued by diversified management companies investing in securities and obligations as authorized by Cal. Gov. Code §53601(l). Companies shall have the highest ranking or highest letter and numerical rating assigned by not less than two NRSROs, or shall have a registered and experienced investment advisor. Purchase price shall not include any commissions. Limited to 20% of funds of which no more than 10% may be with any one fund.	No additional restrictions.
Collateralized Negotiable Securities	Notes, bonds or obligations secured by a valid first priority security interest in securities specified in Cal. Gov. Code §53651. (Cal. Gov. Code §53601(n).) Collateral to be placed by delivery or book-entry into the custody of a trust company or trust department of a bank not affiliated with the issuer. Security interest perfected in accordance with Uniform Commercial Code or applicable federal regulations. Collateral requirements are the same as required to secure bank deposits made by local agencies as specified in Cal. Gov. Code §53652.	No investment in collateralized negotiable securities shall be made without the prior approval of the Finance and Personnel Committee.
Collateralized Mortgage Obligations and Asset-Backed Securities	Mortgage pass-through security, collateralized mortgage obligation, mortgage-backed or other pay-through bond, equipment lease-backed certificate, consumer receivable pass-through certificate, or consumer receivable-backed bond. Securities must have an "AA" rating or its equivalent as rated by an NRSRO, must have a maximum remaining maturity of five years or less, and may not exceed 20% of surplus funds.	No investment in collateralized mortgage obligations or asset-backed securities shall be made without the prior approval of the Finance and Personnel Committee.

INVESTMENT TYPE	DESCRIPTION	RESTRICTIONS
Financial Futures and Options	Authorizes the investment in financial futures and financial option contracts in any of the investment categories contained in Cal. Gov. Code §53601.1	No investments in financial futures and financial option contracts are to be made without the prior approval of the Finance and Personnel Committee.
Prohibited Investments	A local agency shall not invest any funds in inverse floaters, range notes, mortgage derived interest-only strips, or any security that could result in zero interest accrual if held to maturity. However, a local agency may hold prohibited instruments until their maturity dates. Notwithstanding the prohibition above, a local agency may invest in securities issued by, or backed by, the United States government that could result in zero- or negative-interest accrual if held to maturity, in the event of, and for the duration of, a period of negative market interest rates. A local agency may hold these instruments until their maturity dates. This section shall remain in effect only until January 1, 2026, and as of that date is repealed. (Cal. Gov. Code §53601.6.)	No additional restrictions.
Local Agency Investment Fund	Permits a local agency to deposit funds with the State Treasurer for the purpose of investment in securities prescribed in Cal. Gov. Code §§16429.1 <i>et seq.</i>	No additional restrictions.
Orange County Treasury Pool	Permits a local agency to deposit funds with the County Treasurer for investment in securities prescribed in Cal. Gov. Code §53635 or 53684.	No investments are to be made with the Orange County Treasury Pool without the prior approval of the Board.
Inactive Public Deposits	Deposits or contracts with Federal Reserve System banks insured by FDIC, savings associations or federal associations which are home loan bank members or insured by FSLIC, and state or federal credit unions. Specified restrictions on credit unions.	No inactive public deposits are to be made without the prior approval of the Finance and Personnel Committee.

INVESTMENT TYPE	DESCRIPTION	RESTRICTIONS
Public Finance Contracts	Includes interest rate swap agreements, currency swap agreements, forward payment conversion agreements, futures, or index-based agreements to hedge payment, currency, rate, spread or similar exposure. Requires certain determinations by governing body. (Cal. Gov. Code §§5920 <i>et seq.</i>)	The Board is authorized to approve the general parameters for swap transaction types, maximum notional amount(s) and maximum duration(s). The Finance and Personnel Committee shall structure specific parameters for individual transactions including notional amount, transaction timing, counterparty selection, index to be used and ISDA agreement approval. (Resolution 2003-36)
Real Estate Investments	Authorized to invest no more than 30% of the District's Replacement Fund in real estate located in Orange County. (Cal. Wat. Code §35912.)	Real estate investments shall be made in accordance with existing Board policies (Resolution 2019-8). All real estate investments must be individually approved by the Board.

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Exhibit “B”

RESOLUTION NO. 2021-

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

The Treasurer of the Irvine Ranch Water District (“District”) is permitted by Section 53646 of the California Government Code to annually render to the Board of Directors (the “Board”) a statement of investment policy, which the Board shall consider at a public meeting.

The Treasurer has presented an investment policy to the Board at a public meeting, in the form attached as Exhibit A (“2022 Investment Policy”).

Section 53607 of the California Government Code permits the Board to annually delegate to the Treasurer of the District the Board’s authority to invest or reinvest funds of the District or sell or exchange securities so purchased, allows renewal of the delegation of authority to the Treasurer by the Board on an annual basis, and establishes a requirement for monthly reporting of the transactions by the Treasurer to the Board.

Section 53608 of the California Government Code permits the Board to delegate to the Treasurer of the District the Board’s authority to deposit for safekeeping with a federal or state association (as defined by Section 5102 of the California Financial Code), a trust company or a state or national bank in California or in any city designated as a reserve city by the Board of Governors of the Federal Reserve System, or with any Federal Reserve bank, the bonds, notes, bills, debentures, obligations, certificates of indebtedness, warrants or other evidences of indebtedness in which money of the District is invested.

Under Section 53635.2 of the California Government Code, funds of the District may be deposited with certain financial institutions.

Pursuant to Section V, Paragraph 8 of the District’s Bylaws, the Board has appointed one or more Assistant Treasurers.

Resolution No. 2020-19 contains the Board’s previous delegation of authority to the Treasurer and Assistant Treasurer(s) to invest or reinvest funds, sell or exchange securities, deposit investments for safekeeping, and deposit funds, and the Board intends by this resolution to renew that delegation of authority.

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

Section 1. The 2022 Investment Policy of the District is approved in the form attached as Exhibit A, effective January 1, 2022, and will remain in effect until it is revoked or is superseded.

Section 2. The authority of the Board to invest or reinvest funds of the District and its improvement districts or to sell or exchange securities so purchased, subject to the requirements of the 2022 Investment Policy, is hereby delegated to each of the Treasurer and the Assistant Treasurer(s). Pursuant to California Government Code Section 53607, the Treasurer shall assume full responsibility for those transactions until this delegation is revoked or expires. This delegation is effective as of January 1, 2022, and will remain in effect until it is revoked or is superseded by a subsequent delegation.

Section 3. The authority of the Board to deposit for safekeeping with a federal or state association (as defined by Section 5102 of the California Financial Code), a trust company or a state or national bank in California or in any city designated as a reserve city by the Board of Governors of the Federal Reserve System, or with any Federal Reserve bank, the bonds, notes, bills, debentures, obligations, certificates of indebtedness, warrants or other evidences of instruments in which money of the District and its improvement districts is invested, subject to the requirements of the 2022 Investment Policy, is hereby delegated to each of the Treasurer and the Assistant Treasurer(s). This delegation is effective as of January 1, 2022, and will remain in effect until it is revoked or is superseded by a subsequent delegation.

Section 4. This resolution supersedes Resolution No. 2020-19.


ADOPTED, SIGNED AND APPROVED this 13 day of December, 2021.

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:

By: _____
Claire Hervey Collins, General Counsel
Hansen Bridgett LLP

December 13, 2021
Prepared by: J. Davis
Submitted by: R. Jacobson / C. Clary
Approved by: Paul A. Cook 

CONSENT CALENDAR

AMENDMENT AND RESTATEMENT OF THE
401(a) MONEY PURCHASE PENSION PLAN

SUMMARY:

In June 2021, the Board approved a Memorandum of Understanding (MOU) with represented employees that includes an additional permitted contribution type for the District’s 401(a) Money Purchase Pension Plan (401(a) Plan). The additional contribution type provides for an employee’s payout of hours above the allowable maximum vacation accrual to be automatically contributed to the 401(a) Plan on an annual basis. Staff recommends that the Board approve an amendment and restatement of the “Schedule A” of the 401(a) Plan Adoption Agreement to include the additional contribution type.

BACKGROUND:

The District provides two separate plans for employees to save for retirement on a tax deferred basis. The 457(b) Plan allows employees to make voluntary contributions up to a maximum annual amount permitted by the Internal Revenue Service (IRS). The 401(a) Plan is a separate plan for employer contributions. Current permitted contributions to the 401(a) Plan include:

- Employer matching contributions, not to exceed 3.0% of the participant’s base salary following one year of regular, full-time service; and
- Direct contributions from the District (currently 1% of an employee's base salary) following completion of two years of regular, full-time service.

The existing 401(a) Plan does not permit a mandatory excess vacation accrual payout contribution.

Amendment to the 401(a) Plan – Mandatory Excess Accrual Contributions:

In June 2021, the Board approved a Memorandum of Understanding (MOU) with represented employees that includes an additional permitted contribution type to the 401(a) Plan providing for hours above the allowable maximum vacation accrual to be automatically contributed to the 401(a) Plan on a tax deferred basis. Adding mandatory excess vacation accrual payouts as a permitted contribution to the 401(a) Plan will replace the current process which annually transfers excess accrual amounts to the employee’s 457(b) Plan, and any remaining amounts above IRS limits are automatically paid out to employees as taxable cash payments.

Benefits to District employees resulting from the change in the mandatory excess vacation payout process include:

- All annual payments are received on a tax deferred basis;

- Contributions to the 401(a) Plan allow employees to maximize the ability to fund their 457(b) account; and
- Contributions to the 401(a) Plan exclude State Disability Insurance (SDI) and Medicare tax payments which were included under the previous mandatory vacation payout process.

The recommended change to the 401(a) Plan Adoption Agreement is consistent with, and will allow for, revisions separately being recommended to District *Personnel Policy #18 – Vacation*, relative to the mandatory excess vacation payment process for all District employees.

The change in permitted contribution types requires a modification to “Schedule A” of the 401(a) Plan Adoption Agreement, and the Plan is required to be amended and restated. The draft Schedule A of the Plan Adoption Agreement was prepared by District legal counsel and is attached as Exhibit “A”.

FISCAL IMPACTS:

There is no cost to amend and restate the 401(a) Money Purchase Pension Plan.

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 reviewed by the Finance and Personnel Committee on December 7, 2021.

RECOMMENDATION:

THAT THE BOARD APPROVE AN AMENDMENT TO THE DISTRICT’S 401(A) MONEY PURCHASE PLAN TO INCLUDE THE REQUIRED LANGUAGE RELATED TO THE ADDITIONAL CONTRIBUTION TYPE OF MANDATORY EXCESS VACATION ACCRUAL CONTRIBUTIONS.

LIST OF EXHIBITS:

Exhibit “A” – Draft Schedule A of Adoption Agreement

Exhibit "A"

AMENDMENT
TO THE
IRVINE WATER DISTRICT
MONEY PURCHASE PENSION PLAN AND TRUST

The Irvine Ranch Water District (“Employer”) sponsors and maintains the Irvine Water District Money Purchase Pension Plan and Trust, as amended and restated by action of the District’s officers on December 14, 2015 (“Plan”). The Plan is hereby amended by replacing existing Schedule A of the Adoption Agreement with the new Schedule A attached to this resolution.

IRVINE RANCH WATER DISTRICT

BY: _____
[Name and title]

DATE: _____

SCHEDULE A OF ADOPTION AGREEMENT FOR
THE
IRVINE WATER DISTRICT MONEY PURCHASE
PENSION PLAN AND TRUST

Except as otherwise specified, this Schedule A is effective June 21, 2021.

Irvine Ranch Water District (“Employer” or “District”) will make three types of Employer Contributions to the Plan, namely Matching Contributions, Fixed Contributions, and Mandatory Excess Accrual Contributions, subject to and in accordance with the following terms and conditions:

Matching Contributions

1. An employee is eligible to receive Matching Contributions only if: (i) the employee is a full-time permanent employee who works one or more hours per week, and (ii) the employee has completed at least one continuous year of District employment as a full-time employee. If an employee who is eligible for Matching Contributions terminates from District employment but is later rehired as a District employee, he or she will become eligible for Matching Contributions only upon again satisfying the eligibility conditions in the preceding sentence after the rehire date.
2. Matching Contributions will be made as soon as practicable after the end of each payroll period. No “true up” will be provided.
3. For each payroll period, an eligible employee who makes voluntary elective contributions for the payroll period to the Irvine Ranch Water District 457 Deferred Compensation Plan will be entitled to a Matching Contribution equal to 100% of the employee’s elective contributions, but not to exceed 3.0% of the employee’s Compensation for the payroll period.

Fixed Contributions

1. An employee is eligible to receive Fixed Contributions only if (i) the employee is a Manager, Supervisor, Confidential, or General Unit employee, and (ii) the employee has completed at least two continuous years of District employment as a full-time employee. If an employee who is eligible for Fixed Contributions terminates from District employment but is later rehired as a District employee, he or she will become eligible for Fixed Contributions only upon again satisfying the eligibility conditions in the preceding sentence after the rehire date.
2. Fixed Contributions will be made as soon as practicable after the end of each payroll period.

3. For each payroll period, an eligible employee will be entitled to a Fixed Contribution equal to 1% of the employee's Compensation for the payroll period. For General Unit employees, the preceding sentence is effective as of March 29, 2019.

Mandatory Excess Accrual Contributions

1. This section of Schedule A providing for Mandatory Excess Accrual Contributions applies to all District employees.
2. Each Plan Year, if an employee's accrued but unused vacation balance at the close of business on the last day of the second payroll period ending in January of the Plan Year exceeds the vacation accrual maximum applicable to the employee, the excess will be debited from the employee's leave bank. In turn, the debited amount will be contributed to the employee's account under the Plan as a Mandatory Excess Accrual Contribution.
3. Mandatory Excess Accrual Contributions will be made as soon as practicable after the second payroll period ending in January of each Plan Year.

For purposes of this Schedule A, Compensation means base salary, excluding all other forms of compensation, including but not limited to, overtime, bonuses, sick pay, vacation pay, cash payments or retirement plan contributions made in lieu of sick pay or vacation pay, disability pay, rideshare reimbursements, health and wellness benefits and reimbursements, water audit pay, auto or educational reimbursements, health safety or suggestion awards.

To the extent a Mandatory Excess Accrual Contribution cannot be allocated to an employee's Plan account due to the limitations on annual additions imposed by section 415(c) of the Internal Revenue Code ("415 Limit"), the unallocable amount will be paid to the employee in cash.

To the extent a Matching Contribution or Fixed Contribution cannot be allocated to an employee's Plan account due to the 415 Limit, the employee will not be entitled to the unallocable amount.

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December 13, 2021
Prepared and
Submitted by: T. Mitcham
Approved by: Paul A. Cook

CONSENT CALENDAR

REVISED PERSONNEL POLICIES AND PROCEDURES

IRWD has developed Personnel Policies and Procedures to consistently address personnel-related issues at the Irvine Ranch Water District. Revisions to these policies are necessary from time to time to ensure compliance with state and federal law, to maintain best practices in policy and procedure administration, and to accurately reflect processes adopted for the efficient and effective conduct of District business relative to personnel and other Human Resources related matters.

Proposed revisions include updates to current policies and the addition of a personnel policy related to employee lactation accommodation requirements. Staff recommends that the Board adopt a resolution superseding Resolution No. 2021-2 and implementing revised Personnel Policies and Procedures.

BACKGROUND:

The District has adopted Personnel Policies and Procedures to consistently address personnel-related issues at IRWD. Staff regularly reviews the policies and procedures to ensure compliance with current employment and labor laws, regulations, practices, procedures, and Memoranda of Understanding.

Staff recently evaluated IRWD Personnel Policies and Procedures, which was last updated in January 2021. To ensure the Policies and Procedures comply with current law and reflect current practices, staff has revised the policies in Exhibit "A". The changes are summarized as follow:

- Sick Leave Policy (No. 16) – Revised for legal compliance and accurate reflection of existing practices specifically related to the constructive receipt of Sick Leave Payout;
- Vacation Policy (No. 18) – Revised for legal compliance and accurate reflection of existing practices specifically related to the constructive receipt of Vacation Payout;
- Family and Medical Care Leaves of Absence Policy (No. 19) – Revised to comply with the changes made to the California Family Rights Act (CFRA);
- Holidays Policy (No. 22) – Revised to include current practices; and
- Lactation Accommodation Policy No. 52 – New policy added for legal compliance and accurate reflection of existing practices as required under Labor Code §1034.

IRWD's special legal counsel has reviewed the revisions to the Personnel Policies and Procedures. The changes were also submitted to the International Brotherhood of Electrical Workers (IBEW), Local #47, representing the District's General Unit Employees and Non-Exempt Supervisor Unit employees for their review and comment as required under the Meyers-Milias-Brown Act (Government Code Section 3500-3511).

To implement the proposed revisions to Policy No. 16, No. 18, No. 19, No. 22, and add No. 52, staff recommends that the Board adopt the resolution provided in Exhibit “B” superseding Resolution 2021-2 and incorporating the revisions and addition to the District’s personnel policies.

FISCAL IMPACTS:

None.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

This item was reviewed by the Finance and Personnel Committee on December 7, 2021.

RECOMMENDATION:

That the Board adopt the following resolution by title:

RESOLUTION NO. 2021-

RESOLUTION OF THE BOARD OF DIRECTORS OF
IRVINE RANCH WATER DISTRICT,
SUPERSEDING RESOLUTION NO. 2021-2 AND
ESTABLISHING REVISED PERSONNEL POLICIES AND PROCEDURES

LIST OF EXHIBITS:

Exhibit “A” – Proposed Changes to District Personnel Policy and Procedures

Exhibit “B” – Proposed Resolution Establishing Revised Personnel Policies and Procedures

IRVINE RANCH WATER DISTRICT
PERSONNEL POLICIES AND PROCEDURES
POLICY NO. 16 - SICK LEAVE

I. GENERAL POLICY

- A. To minimize the economic hardships that may result from an unexpected short-term illness or injury to an employee or legal dependent, and comply with applicable California law, the District provides regular full-time employees, regular part-time employees, and temporary part-time employees with sick leave in accordance with the terms set forth in this Policy.
- B. The District reserves the right to require a satisfactory statement of a licensed physician whenever an employee misses work due to an illness, injury or disability. The employee may be asked to provide a physician's statement that verifies the nature of an illness, injury or disability, its beginning and ending dates, and/or the employee's ability to return to work without endangering his/her own safety or the safety of others. Although a physician's statement normally will not be requested for absences of less than three working days, the District may request such a statement in situations where it determines it is warranted.
- C. All employees are eligible to accrue and use paid sick leave in accordance with the applicable terms of this Policy.

II. ACCRUAL

- A. **Regular Employees:** Each regular employee will accrue sick leave hours at the rate of 96 hours per year; 3.69 hours per pay period, pro-rated based on a 40-hour weekly schedule. This accrual begins with the first day of employment, and is available for use as soon as hours are accrued. An employee will be allowed to accrue an unlimited number of sick leave hours.
- B. **Temporary Employees:** Each temporary employee will accrue sick leave at the rate of 1 hour for every 30 hours worked, to a maximum of 48 hours (or the equivalent of six of the employee's usual work shifts, whichever is greater). This accrual begins with the first day of employment, and is available for use as soon as hours are accrued, following completion of a 30-day eligibility period for new hires. A temporary employee may use up to 24 hours of sick leave (or the equivalent of three of the employee's usual work shifts, whichever is greater) per year of employment, calendar year or 12-month period, as determined by the District. Accrued sick leave up, to 48 hours (or the equivalent of six of the employees usual work shifts, whichever is greater) may carry over to the following year of employment, calendar year or 12-months period as determined by the District. In no circumstance may a temporary employees' total accrual of sick leave exceed 48 hours (or the equivalent of six of the employee's usual work shifts, whichever is greater).

C. Sick Leave Accrual during Leaves of Absence

1. **Accrual during Paid Leave:** A regular employee on authorized leave of absence will continue to accrue sick leave hours at the same rate set forth in Section II.A., as long as accrued sick leave and vacation hours have not been exhausted and provided the employee is utilizing some portion of accrued leave benefits. Once accrued sick leave and vacation hours have been exhausted, or if an employee elects not to coordinate benefits while on a leave of absence, the employee will cease to accrue sick leave hours until he/she returns to active employment status.
2. **Accrual during Consecutive Unpaid Leave:** An employee on an authorized leave of absence without pay, including extended military leave of absence, extended sick leave, or FMLA/CFRA/PDL leave, taken on a consecutive basis, will not accrue sick leave during such absences, unless otherwise required by law.
3. **Accrual during an Intermittent or Reduced Schedule Leave:** An employee on an authorized leave of absence taken on an intermittent or reduced schedule basis will accrue sick leave as provided in Section II.C.1.

D. Sick Leave Added Days

1. **Regular Employees:** The General Manager has the authority to loan, in writing, up to five (5) days of paid sick leave to an employee provided that all accrued sick leave and vacation hours have been exhausted. Unearned days of paid sick leave loaned to an employee must be repaid upon return to work. In the event the employee terminates employment prior to the complete repayment of loaned sick leave days, the employee is responsible for direct repayment to the District for the remaining number of hours.
2. **Temporary Employees:** The District will not loan or advance paid sick leave to temporary employees before it has been accrued.

III. USE OF SICK LEAVE

A. Permitted Reasons to Use Sick Leave: Upon oral or written request, employees may use sick leave for any of the following purposes:

1. Diagnosis, care, or treatment of an existing health condition of, or preventative care for, an employee or an employee's family member.
 - a. For purposes of this Policy, "family member" includes a biological, adopted, or foster child, stepchild, legal ward, a child to whom the employee stands *in loco parentis*, or a child of a registered domestic partner, regardless of the child's age or dependency status; a biological, adoptive, or foster sibling, parent, stepparent, or legal guardian of an employee or the employee's spouse or registered domestic partner, or a person who stood *in loco parentis* when the Employee was a minor child; a spouse; a State of California registered domestic partner; a grandparent; or a grandchild.

POLICY NO. 16 – SICK LEAVE

- b. The use of unused accumulated sick leave hours is allowed for pregnancy-related illness or disability, just as it is for other illness or disability.
- 2. For employees who are victims of domestic violence, sexual assault, or stalking, taking time off to obtain or attempt to obtain any relief, including, but not limited to, a temporary restraining order, restraining order, or other injunctive relief, to help ensure the health, safety, or welfare of the victim or his or her child.
- 3. For employees who are victims of domestic violence, sexual assault, or stalking, taking time off to seek medical attention for injuries caused by the domestic violence, sexual assault, or stalking; to obtain services from a domestic violence shelter, program, or rape crisis center as a result of domestic violence, sexual assault, or stalking; to obtain psychological counseling related to an experience of domestic violence, sexual assault, or stalking; and to participate in safety planning and take other actions to increase safety from future domestic violence, sexual assault, or stalking, including temporary or permanent relocation.
- 4. All employees are permitted to use up to five days of accrued sick leave per year for bereavement, upon the need for additional bereavement time off, as provided in Policy 17 - Bereavement.

B. Holidays during Sick Leave

In the event that any holiday occurs during a period when any employee is on paid sick leave, the holiday will not be charged against the employee's accumulated sick leave.

C. Coordination of Sick Leave with Disability Payments

When an employee becomes eligible for disability benefits from the State of California Employment Development Department's State Disability Insurance (SDI) program, or workers' compensation, the employee may use accumulated sick leave hours to supplement these payments. Accrued sick leave benefits will be used to supplement such disability payments only to the extent necessary to provide total compensation equal to the employee's straight time compensation immediately before the beginning of the illness, disability or injury.

IV. PAYMENT FOR UNUSED SICK LEAVE

A. Upon Separation from Employment

1. Regular Employees

a. Eligibility

- i. Regular employees who have worked for the District for at least 24 consecutive calendar months as a regular employee are eligible to receive payment for accrued and unused sick leave, as follows:

POLICY NO. 16 – SICK LEAVE

(A) An eligible employee who separates from employment voluntarily, through resignation, service retirement or disability retirement, must provide at least two weeks' notice prior to separation.

(I) Employees who provide notice prior to separating from District employment for any reason are not permitted to first exhaust accrued and unused sick leave unless used for a permitted reason in accordance with Section III of this Policy.

(B) Following the lay-off of an eligible District employee, payment will be issued in accordance with this Policy.

(C) Following the death of an eligible employee, payment will be made in accordance with applicable law and District policies and practices.

ii. Employees whose employment has been terminated by the District other than by lay-off are not eligible to be compensated for unused sick leave.

b. Amount: Eligible employees will receive the equivalent of fifty (50) percent of the employee's accrued sick leave to a maximum of 960 hours, times the employee's current hourly straight time pay rate.

2. Temporary Employees:

a. Temporary employees are not eligible to receive compensation at any time for accrued and unused sick leave.

B. Annual Payment for Unused Accrued Sick Leave

1. Eligibility

a. Regular employees may choose to receive payment for unused accrued sick leave, up to a maximum of 96 hours, once per year, in accordance with the terms in this Policy, as long as a minimum balance of 80 hours remains.

b. Temporary employees are not eligible for any payment for unused accrued sick leave.

2. Elective Payouts of Sick Leave Amount, Form, and Timing of Annual Payment

a. In lieu of using accrued Sick Leave for a covered leave, an employee with at least 11 years of service may elect to buyback (and receive cash payment of) Sick Leave at 100% value.

POLICY NO. 16 – SICK LEAVE

To make the election, an employee must, in November of the calendar year preceding the calendar year in which the employee wishes the buyback to occur, file an irrevocable election form with the District stating their intent to buy back the leave and identifying the number of Sick Leave hours covered by the election. The election form must be filed with the District’s Human Resources Department. The election will apply only to Sick Leave hours accrued in the same calendar year as the buyback (i.e., the calendar year following the filing of the election). An employee may elect to either (i) receive cash payment (“cashout”) of sick leave, (ii) contribute sick leave to his or her account under the District’s 457(b) plan, or (iii) a combination of both. Employees who do not file a valid election by November 30 of a preceding calendar year may not subsequently elect to buy back at 100% value any Sick Leave accrued in the following calendar year. For each calendar year, employees may make this election up to the number of hours specified below based on the year the accruals are earned:

~~Amount: Payment will be made to the employee in accordance with the following percentage schedule times the employee's current wage rate:~~

Years of Regular District Service	Amount of Buy-Back
0-10 years (less than 11 years)	Up to 96 hours @ 50%
11-15 years (less than 16 years)	Up to 30 hours @ 100%; remainder (up to 66 additional hours) @ 50%
16-20 years (less than 21 years)	Up to 60 hours @ 100%; remainder (up to 36 additional hours) @ 50%
21 years or more	Up to 96 hours @ 100%

- b. In lieu of using accrued Sick Leave for a covered leave, an employee may elect to buyback Sick Leave, regardless of when accrued and regardless of the employee’s total years of service, at 50% value. This election is limited to 96 hours per calendar year; and any Sick Leave hours sold back during the calendar year at 100% value as permitted above will count towards that year’s 96-hour limit for buy back at 50% value. For example, if an employee with 12 years of service elects to buy back 30 hours of sick leave at 100% value, the employee may buy back an additional 66 hours at 50% value in the same calendar year.

~~Form: Employees may choose to receive either a cash payment or an equivalent contribution to their 457 deferred compensation account.~~

- c. Payment of Sick Leave hours sold at 50% value will be made on or about November 30 after the employee’s election. To make this election, an employee must file an election form with the District’s Human Resources Department. An employee may elect to either (i) receive cash payment (“cashout”) of sick leave, (ii) contribute sick leave to his or her account under the District’s 457(b) plan, or (iii) a combination of both. An employee’s buyback of Sick Leave may not reduce the employee’s Sick Leave balance below 80 hours. Accordingly, the Sick Leave amount sold back (and the corresponding payment) to the employee will be

lowered as needed to maintain the 80-hour minimum; and no buyback will occur if the employee's Sick Leave balance is 80 hours or less.
~~Timing: Compensation for sick leave buy-back will be made to the employee in November of each year.~~

V. REINSTATEMENT OF UNUSED ACCRUED SICK LEAVE

If any employee who had a sick leave balance remaining at the time of separation from District employment, which balance was not paid out under the terms of Section IV. A. 1 above, is rehired by the District within one year from the date of separation, then that same balance will be reinstated to the employee. The rehired employee will be entitled to use the reinstated sick leave and to also accrue additional sick leave upon rehiring in accordance with this Policy.

VI. SICK LEAVE DONATION PROGRAM

A. In General

1. The Sick Leave Donation Program allows eligible employees who have accrued sick leave hours to voluntarily donate a portion of their accumulated hours to another employee who has exhausted his/her accrued sick and vacation leave due to a non-work-related catastrophic illness or injury of the employee or the catastrophic illness or injury of an employee's dependent parent, spouse or registered domestic partner, or child requiring the presence of the employee.
2. Catastrophic illness or injury is defined as a severe illness or injury which totally incapacitates a person for an extended period of time and is severely debilitating or life-threatening. Illnesses such as cancer, heart attack, or stroke would be considered catastrophic illnesses. Pregnancy without serious complications and routine illnesses, surgical procedures, and injuries, even those resulting in an extended leave of absence, do not qualify as catastrophic illness or injury. The Director of Human Resources will be responsible for reviewing the eligibility of an employee to receive donated sick leave and making a recommendation to the General Manager for approval. The approval process may require appropriate medical documentation regarding the illness or injury of the employee or family member.
3. The decision to make a donation of sick leave to another employee through the Sick Leave Donation Program is voluntary. No employee is to be coerced or intimidated into making a donation of sick leave or to coerce or intimidate another employee. Donations of sick leave may not involve any form of payment or compensation, financial or otherwise, between the donor and recipient. The District will not solicit sick leave donations on behalf of any qualifying individual.

B. Eligibility

All regular, full-time employees who have completed their initial probationary period and meet other applicable qualifications set forth in this Policy are eligible to participate in the Sick Leave Donation Program as a donor or recipient.

C. Procedures for Utilizing Donated Sick Leave

1. In order to receive donated sick leave through the Sick Leave Donation Program, an employee must meet the following requirements:
 - a. The employee must have been on an approved Leave of Absence for a catastrophic illness or injury as defined above for at least 30 calendar days prior to the use of any donated sick time.
 - b. The employee must have exhausted all of his/her sick and vacation accruals prior to the use of any donated sick time.
 - c. The employee must be utilizing any applicable income replacement programs for which he/she qualifies (i.e. State Disability Insurance, Paid Family Leave, Long-Term Disability).
 - d. The employee must have notified the Human Resources department of his/her desire to receive and utilize donated sick time. In the event that the employee is physically or mentally unable to notify the Human Resources department, notification may be made by a member of the employee's immediate family (i.e., spouse, registered domestic partner, child or parent).
2. An employee utilizing donated sick leave will not earn or be eligible to accrue any sick or vacation leave. Once an employee ceases to receive any portion of his/her pay from the use of his/her own accrued sick and vacation leave, accrual of additional vacation and sick leave hours will cease. Holidays falling during the period following exhaustion of vacation and sick leave benefits will not be paid to an employee even if they are utilizing donated sick leave.
3. If an employee returns to work on a part-time basis, sick and vacation leave will begin accruing on a pro-rated basis and these accrued balances will be utilized for coordination of benefits before the utilization of any donated sick leave.
4. An employee utilizing donated sick leave will be taxed each pay period as with the use of regularly accrued sick and vacation leave.
5. The existence or use of donated sick time is not a guarantee of continued employment past the end of the approved leave of absence as detailed in applicable District policy.

D. Procedures for Donating Sick Leave

1. An employee may complete a “Donation of Sick Leave” form to donate accrued sick leave in one-hour increments for use by another eligible employee who has been determined to qualify for sick leave donations under the requirements listed above.

POLICY NO. 16 – SICK LEAVE

2. In no case shall a donation of sick leave reduce the donor's accrued sick leave balance below eighty (80) hours.
3. An employee may donate a maximum of 25% of his/her sick balance or forty (40) hours of accrued sick leave to an eligible employee, whichever is less. No employee will be allowed to donate more than forty (40) hours of sick leave in any twelve month period.
4. The number of sick hours credited to the recipient will be calculated by multiplying the number of hours donated by the calculated hourly rate of the donor then dividing that amount by the calculated hourly rate of the recipient.
5. Donated sick leave hours will be used to pay the recipient on a first in- first out basis. Donated sick leave hours not used by the specified recipient will be returned to the donating employee(s) following the end of the pay period in which the recipient no longer qualifies for the use of donated sick leave.

Adopted by IRWD Board of Directors on: ~~February 11, 2019~~

IRVINE RANCH WATER DISTRICT
PERSONNEL POLICIES AND PROCEDURES

POLICY NO. 18 - VACATION

I. GENERAL POLICY

- A. The District believes it is important for employees to take vacation leave on an annual basis when practicable, to enable them to take time off away from their job responsibilities in order to relax and refresh themselves physically and mentally.

II. RATES OF ACCRUAL

- A. **Regular Full-Time Employees:** All regular full-time employees will accrue vacation leave according to the following monthly schedule, based upon years of service:

Less than 5 years' service	6.67 hours - (80 hours per year)
5 or more years of service but less than 10 years	10.00 hours - (120 hours per year)
10 or more years of service	13.33 hours - (160 hours per year)
<u>15 or more years of service</u> <u>————— but less than 20 years</u>	<u>15.00 hours – (180 hours per year)</u>

- B. **Managers, Supervisors, Confidential, and Exempt Employees:** Managers, supervisors, confidential and exempt employees will accrue vacation according to the same monthly schedule set forth in Section II.A., until they have completed at least ~~15~~20 years of service, at which time they will accrue vacation according to the following monthly schedule, based upon years of service:

15 or more years of service ————— but less than 20 years	15.00 hours – (180 hours per year)
20 or more years of service	16.67 hours – (200 hours per year)

- C. **Regular Part-Time Employees:** All regular part-time employees are eligible for pro-rated vacation leave based upon a 40-hour weekly schedule and years of service.

- D. **Temporary Employees:** Temporary employees are not eligible to accrue vacation leave.

E. Vacation Accrual During Leaves of Absence

1. **Accrual during Paid Leave:** A regular employee on authorized leave of absence will continue to accrue vacation hours at the same rate set forth in Sections II.A. or II.B. (Full-time) and Section II.C. (Part-time) as long as

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accrued sick leave and vacation hours have not been exhausted and provided that the employee is utilizing some portion of accrued leave benefits. Once accrued sick leave and vacation hours have been exhausted, or if an employee elects not to coordinate benefits while on a leave of absence, the employee will cease to accrue vacation hours until he/she returns to active employment status.

2. **Accrual during Consecutive Unpaid Leave:** An employee on an authorized leave of absence without pay, including extended military leave of absence, extended sick leave, or FMLA/CFRA/PDL leave, taken on a consecutive basis, will not accrue vacation leave during such absences, unless otherwise required by law.
3. **Accrual during an Intermittent or Reduced Schedule Leave:** An employee on an authorized unpaid leave of absence taken on an intermittent or reduced schedule basis will accrue vacation at the same rate as set forth in Section II.A. or II.B. (Full-time) or Section II.C. (Part-time).

III. REQUESTS FOR VACATION LEAVE

- A. Employees are not eligible to take time off for vacation leave during the first six (6) months of employment.
- B. Requests for vacation leave shall be made in advance by the employee to his/her immediate supervisor for appropriate approvals.
- C. Established District holidays occurring during scheduled vacation leave are not counted as vacation days.

IV. MAXIMUM ACCRUAL AND REDUCTION OF VACATION HOUR BALANCES

The maximum number of vacation hours accrued may not exceed the greater of 240 hours or two times an employee's annual accrual.

A. Voluntary Transfer of Vacation Hours

Once a year, ~~generally~~ in ~~February~~~~November~~, an employee who has taken at least 40 hours of vacation during the immediately preceding completed calendar year may elect to transfer into the employee's Deferred Compensation Plan account:

1. Any vacation hours accrued in excess of the employee's maximum accrual;
and/or
2. Any accrued vacation hours below the employee's maximum accrual, as long as the employee retains a balance of at least 80 vacation hours following the transfer.

Hours will be transferred at a rate of 100% of the employee's current pay rate at the time of transfer.

B. Voluntary Reduction of Vacation Hours by Managers, Supervisors, and Confidential Employees

In lieu of using accrued vacation leave for a covered leave, an employee may elect to either (i) receive cash payment (“cashout”) of vacation leave, (ii) contribute vacation leave to his or her account under the District’s 457(b) plan, or (iii) a combination of both. To make the election, an employee must, in November of the calendar year preceding the calendar year in which the employee wishes the cashout or contribution (or both) to occur, file an irrevocable election form with the District stating their intent to cashout or contribute the leave and identifying the number of vacation leave hours covered by the election. The election form must be filed with the District’s Human Resources Department. The election will apply only to vacation leave hours accrued in the same calendar year as the cashout or contribution (i.e., the calendar year following the filing of the election). Employees who do not file a valid election by November 30 of a preceding calendar year may not subsequently elect under this provision to cashout or contribute any vacation leave accrued in the following calendar year.

1. Limits on Cashouts and Contributions.

An employee’s election to receive cashouts or contributions of vacation leave for a calendar year is subject to the following limitations:

- The aggregate cashout and contribution may not reduce the employee’s vacation leave balance below 80 hours. Accordingly, the cashout or contribution amount will be lowered as needed to maintain the 80-hour minimum (if the employee elected both cashouts and contributions, the reduction will be made proportionally from both according to the election percentage); and no election or contribution will occur if the employee’s vacation leave balance is 80 hours or less.
- If any part of the employee’s elected contribution cannot be made to the 457(b) plan due to contribution limits imposed by the tax laws, that amount will instead be paid in cash to the employee.
- The employee’s elected cashout or contribution will be processed in the calendar year following the election, at the time and in the manner determined by the District.

~~1. Generally, in February of each year, employees identified in Section II. B. of this Policy, who have taken at least 40 hours of vacation during the immediately preceding calendar year may choose one or more of the following options, as long as they retain a balance of at least 80 vacation hours following any sell back or transfer:~~

- ~~a. Elect to sell back to the District some or all of the vacation hours that exceed their maximum accrual.~~

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~~b. — Elected to sell back to the District some or all of the accrued vacation hours below the maximum accrual.~~

~~c. — Elected to make a voluntary transfer of some or all of the accrued vacation hours under Section IV.A.~~

2. ~~Employees who choose to sell back vacation hours will be compensated at 100% of the employee's pay rate in effect at the time compensation is provided.~~ All cash payments are subject to state and federal withholdings.

C. Automatic Transfer of Vacation Hours in Excess of Maximum Accrual

1. ~~In the event the employee's accrued vacation balance by the end of January of a calendar year exceed the Vacation Accrual Maximum, the excess accruals will be automatically contributed by the District to the employee's account under the District's 401(a) defined contribution plan. By the end of January each year, employees who have accrued vacation hours in excess of the maximum, and who have not made a voluntary election under Section IV.A. or B. will be required to transfer all hours in excess of the allowed maximum accrual into their Deferred Compensation Plan account.~~

2. This transfer will be conducted once a year, generally in February, and hours will be transferred at a rate of 100% of the employee's current wage rate at the time of transfer. Employees are responsible for ensuring that their vacation accrual balance falls below the allowed maximum accrual if they do not wish to have vacation hours automatically transferred to their 401(a) defined contribution plan ~~Deferred Compensation Plan~~ account.

3. If an employee's scheduled vacation is canceled at the District's request, or if extenuating circumstances arise which require an employee to accrue vacation leave in excess of the allowed maximum accrual, written approval may be granted by the General Manager to carry over the excess hours for a specified period of time, without automatic transfer.

V. PAYMENT FOR UNUSED VACATION LEAVE UPON SEPARATION

Upon separation from the District, employees shall be paid for unused accrued vacation hours through the date of separation. These unused accrued vacation hours shall be paid at the employee's current pay rate at the time of separation, regardless of the length of service with the District.

Adopted by IRWD Board of Directors on: February 11, 2019

IRVINE RANCH WATER DISTRICT

PERSONNEL POLICIES AND PROCEDURES

POLICY NO. 19 – FAMILY AND MEDICAL CARE LEAVES OF ABSENCE (FMLA/CFRA/PDL)

I. GENERAL POLICY

- A. This Policy is intended to provide employees with information about and establish guidelines for the taking of family care and medical leave, in accordance with the federal Family and Medical Leave Act (FMLA), the California Family Rights Act (CFRA), and the California Pregnancy Disability Leave Law (PDL).
- B. To the extent not already provided for under current leave policies and provisions, the District will provide family and medical care leave for eligible employees as required by State and federal Law. The leaves provided for in this Policy are granted under a variety of state and federal laws. Employees should be aware that leave under one Section of the Policy may also qualify for leave under another Section. For example, military caregiver leave is provided for under the FMLA, but in certain circumstances, might also qualify for CFRA leave. In addition, an employee is entitled to take CFRA leave to care for a registered domestic partner, but FMLA leave does not include registered domestic partners. In such cases, the District will advise affected employees in writing which of their statutorily protected leaves are being used and how much of that leave remains.
- C. Additional definitions and other provisions governing employees' rights and obligations under the FMLA, CFRA, and PDL that are not specifically set forth below are set forth in the Department of Labor's FMLA regulations (29 C.F.R. § 825.00 *et seq.*) and the California Department of Fair Employment and Housing's CFRA regulations (2 C.C.R. § 11087 *et seq.*) and PDL regulations (2 C.C.R. § 11035 *et seq.*) This Policy is deemed to include such regulatory provisions, including subsequent revisions to such regulatory provisions, except where expressly contradicted by the terms of this Policy.

II. FAMILY CARE AND MEDICAL LEAVE (FMLA/CFRA Leave)

- A. **Eligibility:** To be eligible for FMLA/CFRA leave, an employee must have been employed by the District for at least 12 months prior to the date on which the FMLA/CFRA leave is to commence, and have worked at least 1,250 hours over the 12-month period preceding the FMLA/CFRA leave. For employees performing covered military service under the federal Uniformed Service Employment and Reemployment Rights Act, periods of absence due to such service shall be counted for purposes of determining whether the employee meets these eligibility requirements.
- B. **Qualifying Reasons for FMLA/CFRA Leave:** Employees meeting the eligibility requirements under Section II.A. may take FMLA/CFRA leave for any of the following qualifying reasons:
 - 1. Birth of a child of the employee; or placement of a child with an employee in connection with the adoption or foster care of a child by the employee.

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2. Because of any qualifying exigency arising out of the fact that the spouse, domestic partner, child, or parent of the employee is on active military duty in the Armed Forces in support of a contingency operation. A “qualifying exigency” is defined, as a situation or pressing need calling for immediate attention.
3. For a serious health condition of the employee which makes him/her unable to perform his/her job.
4. For a serious health condition of a child of an employee.
5. To care for a parent, grandparent, grandchild, sibling, ~~or~~ spouse, or domestic partner who has a serious health condition.

The FMLA also specifically provides for ~~military exigency leave and~~ military caregiver leave, and those types of leaves are addressed under Section IV of this Policy. The PDL also provides for leave for employees with a serious health condition is on account of her pregnancy, childbirth, or related medical conditions, and that leave is addressed under Section III.

C. Definitions

1. **Child:** Leave may be taken under Section B.1., B.2., or B.3. by an employee for a "child" who is:
 - a. A biological child, adopted child, foster child, stepchild, legal ward of the employee, ~~or~~ a child to whom the employee stands *in loco parentis*, or a child of a domestic partner and who, at the time leave is to commence is either:
 - i. ~~under 18 years of age; or~~
 - ii. ~~18 years of age or older and incapable of caring for himself/herself because of a mental or physical disability.~~
2. ***In loco parentis:***
 - a. For purposes of this Policy an employee stands *in loco parentis* by providing day-to-day care or financial support with demonstrated intent of assuming the responsibilities typically held by a parent.
 - b. Whether an employee stands *in loco parentis* to a child for purposes of this Policy will be determined by the District on a case-by-case basis, and the District may require reasonable documentation to support an employee's claim of providing either day-to-day care or financial support for the child.
3. **Serious Health Condition:** A serious health condition is an illness, injury, impairment, or physical or mental condition of the employee or a child, parent, spouse, or registered domestic partner

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of the employee that makes the employee unable to work or unable to perform one or more of the essential functions of the employee's position, and which involves either inpatient care or continuing treatment or supervision by a health care provider, as follows:

- a. “Inpatient care” means an overnight stay in a hospital, hospice, or residential medical care facility, or any subsequent treatment in connection with such inpatient care, or any resulting period of incapacity.
 - i. A person is considered to have an “overnight stay” for purposes of this provision if a health care facility formally admits him/her to the facility with the expectation that he/she will remain at least overnight and occupy a bed, even if it later develops that such person can be discharged or transferred to another facility and does not actually remain overnight.
- b. “Continuing treatment or supervision by a health care provider” means and includes any one or more of the following:
 - i. In-person treatment two or more times, within 30 days of the first day of incapacity, unless extenuating circumstances exist, by a health care provider, by a nurse under direct supervision of a health care provider, or by a provider of health care services (*e.g.* physical therapist) under orders of, or on referral by, a health care provider, with the first visit being within seven days of the first day of incapacity; or
 - ii. In-person treatment by a health care provider on at least one occasion, which results in a regimen of continuing treatment under the supervision of the health care provider, with the first visit being within seven days of the first day of incapacity.
 - iii. Any period of incapacity due to pregnancy, or for prenatal care, whether or not in-person treatment is received during that time, or whether the resulting absence lasts fewer than three days.
 - iv. Any period of incapacity, or treatment for such incapacity, due to a chronic serious health condition, whether or not in-person treatment is received during that time, or whether the resulting absence lasts fewer than three days. A chronic serious health condition is one which:

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- A. Requires periodic visits (defined as at least twice a year) for treatment by a health care provider, or by a nurse under direct supervision of a health care provider; and
 - B. Continues over an extended period of time (including recurring episodes of a single underlying condition); and
 - C. May cause episodic rather than a continuing period of incapacity (e.g., asthma, diabetes, epilepsy, *etc.*).
- v. A period of incapacity, which is permanent or long-term due to a condition for which treatment may not be effective. The employee or family member must be under the continuing supervision of, but need not be receiving active treatment by, a health care provider. Examples include Alzheimer's, a severe stroke, or the terminal stages of a disease.
- vi. Any period of absence to receive multiple treatments (including any period of recovery therefrom) by a health care provider or by a provider of health care services under orders of, or on referral by, a health care provider, for either:
- A. Restorative surgery after an accident or other injury; or
 - B. A condition that would likely result in a period of incapacity of more than three consecutive, full calendar days in the absence of medical intervention or treatment, such as cancer (chemotherapy, radiation, *etc.*), severe arthritis (physical therapy), or kidney disease (dialysis).
4. **“Incapacity”** means that a person is unable to work, attend school, or perform regular daily activities due to a serious health condition, its treatment, or the recovery that it requires.

D. Amount of Leave Entitlement: Provided that all applicable conditions of Section II.B. are met, an employee may take a maximum of 12 workweeks of FMLA/CFRA leave in a rolling 12-month period measured backwards from the date the employee uses any FMLA/CFRA leave.

1. Employees taking FMLA/CFRA leave for the birth, adoption, or foster care of their child must initiate and complete any FMLA/CFRA leave within one year of the birth of the child or placement of the child with the employee for adoption or foster care.

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2. ~~Parents who~~Parents who are both employed by the District ~~may be limited to taking a maximum combined 12 workweeks of FMLA/CFRA leave in a 12-month period for the birth, adoption, or foster care of their child. Both parents or registered domestic partners (CFRA only in some circumstances)~~ may be on leave simultaneously, provided the employees provide a certificate, from a health care provider, stating the need for both employees' participation in the care of the child.
3. An employee's FMLA/CFRA leave does not need to be consecutive, but can be cumulative within a 12-month period.
4. Industrial injury leaves and non-industrial injury leaves are FMLA/CFRA leaves if they are taken for serious health conditions.

E. Concurrent Use of Accrued Paid Leave Leave taken under this Policy is unpaid. Employees may elect or may be required to use their accrued leave balances concurrently with FMLA/CFRA leave, as provided below. When an employee elects or is required to use his/her accrued leave balances, the employee may specify in writing the order in which the employee would prefer to exhaust his/her leave balances. If the employee fails to designate the order of exhaustion, the District will determine the order, subject to the terms of applicable District policy. The paid leave shall run concurrently with the FMLA/CFRA leave, and shall not extend the employee's entitlement to FMLA/CFRA leave beyond 12 workweeks.

1. **Sick leave:** Employees are required to use all accumulated sick leave concurrently when FMLA/CFRA leave is taken for the employee's own serious health condition. Employees may choose to use their accumulated sick leave when FMLA/CFRA leave is taken for any other reason under Section II.B. of this Policy.
2. **Other paid leaves:** Employees are required to use all other accrued paid leaves of absence, including but not limited to, vacation and holiday leave, when taking FMLA/CFRA leave for any reason.

F. Coordination with Wage Replacement Plans

An employee requesting a family care leave of absence for his or her own serious health condition may coordinate any unused accumulated sick and vacation hours with short-term disability, long-term disability, worker's compensation and any other wage-replacement benefits for which the employee may be eligible, up to an amount equal to the employee's regular salary.

G. Intermittent or Reduced Schedule Leave: Intermittent FMLA/CFRA leave is leave taken on an as-needed basis in increments of minutes, hours, or days. A reduced schedule FMLA/CFRA leave involves a reduction in the number of hours per day or per week that an employee regularly

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works, with the employee substituting FMLA/CFRA time substitute for hours not worked. The minimum FMLA/CFRA leave increment that can be taken by an employee is 15 minutes.

1. Calculation of Intermittent or Reduced Schedule Leave: The maximum equivalent number of hours to which an employee is entitled during the 12-week period will be based on the employee's regularly scheduled workweek. For example, an employee who is regularly scheduled to work 40 hours per workweek will be entitled to a maximum of 480 hours of FMLA/CFRA leave, whereas, an employee who is regularly scheduled to work 32 hours per workweek will be entitled to a maximum of 384 hours of FMLA/CFRA leave. In calculating this amount for employees with a varying schedule, the District will use an average of the employee's workweeks within the 12-month period immediately preceding the intermittent or reduced schedule leave.

2. Impact on Salary: Where permitted by applicable state and federal wage and hour laws, the District may make deductions from an employee's salary for all hours of leave taken as intermittent leave, unless the employee is entitled or required to coordinate paid leave.

3. Inclusion of Scheduled Overtime: If an employee normally would be required to work overtime hours, but is unable to do so because of an FMLA/CFRA-qualifying reason that limits the employee's ability to work overtime, the hours that the employee would have been required to work may be counted against the employee's FMLA/CFRA entitlement, as the employee would be considered to be using intermittent or reduced schedule leave. For example, if an employee is normally required to work 50 hours in a particular workweek, but because of an FMLA/CFRA-qualifying reason, the employee works only 40 hours that week, the employee would use 10 hours of FMLA/CFRA-protected leave out of the 50-hour workweek.

4. Conditions for Taking Intermittent or Reduced Schedule Leave

a. FMLA/CFRA leave taken for the employee's own serious health condition, or the serious health condition of the employee's spouse, registered domestic partner, parent, or child, or for military caregiver leave under Section IV.B. of this policy, may be taken intermittently or on a reduced leave schedule when medically necessary (as distinguished from voluntary treatments and procedures).

b. Military exigency leave under Section IV.A. of this Policy (FMLA only) may be taken on an intermittent or reduced schedule basis without limitation.

c. Leave taken following the birth, adoption, or placement or foster care of a child may be taken on an intermittent or reduced

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schedule basis, subject to the conditions set forth in Section II.G.6., below.

5. Temporary Transfer:

a. **Required by the District** The District may require that the employee temporarily transfer to an available alternative position for which the employee is qualified and which provides equivalent pay and benefits and that better accommodates recurring leave periods than the employee’s regular position.

b. **Requested by Employee:** An employee on intermittent or reduced schedule FMLA/CFRA leave for foreseeable and planned medical treatments may request a transfer to an open and available position for which the employee is qualified, if the duties of that position would better accommodate the employee’s, intermittent or reduced schedule FMLA/CFRA leave. Transfers will not be considered under this Section when the intermittent or reduced schedule FMLA/CFRA leave is unscheduled, such as in the case of chronic conditions.

6. Leave Taken for Baby Bonding: The basic minimum duration of a leave taken for the birth, adoption, or foster care of a child shall be two weeks. However, the District will grant a minimum of two requests to take baby-bonding leave in increments shorter than two weeks in the applicable one-year period. The District may, in its discretion grant more than two requests for leave shorter than two weeks in duration. Any modification permitted under this sub-section shall not increase the employee’s total leave entitlement beyond the amount provided in Section II.D.

H. Employee Notice: Employees requesting leave under the FMLA/CFRA must notify Human Resources in accordance with the rules set forth below. Employees must either use a Request for Leave of Absence Form or otherwise provide sufficient information to make the District aware that the employee needs FMLA/CFRA leave, which qualifying reason applies to the leave (by reference to Section II.B. of this Policy), and the anticipated timing and duration of that leave. Supervisors who receive employee requests for FMLA/CFRA leave (or leave that may be FMLA/CFRA-qualifying) must forward any such requests to Human Resources.

1. Foreseeable Events: An employee must provide the District with at least 30 days’ advance notice before the date the leave is to begin, or must provide notice as soon as is practicable, normally the same business day or next business day if the employee is off work when he/she learns of the need for leave. If the employee provides less than 30 days’ advance notice, the District may require explanation of why 30 days’ advance notice was not practicable.

a. In any case in which the need for FMLA/CFRA leave is foreseeable based on one of the circumstances listed below in sub-section b., the employee shall make a reasonable effort to schedule

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any planned medical treatment or supervision so as not to unduly disrupt the operations of the District. However, any such scheduling shall be subject to the approval of the health care provider of the employer or the employee's child, parent, spouse, or registered domestic partner (CFRA only).

b. The need for leave is considered “foreseeable” when it is taken for any of the following reasons:

- i. Planned medical treatment for a serious health condition of the employee.
- ii. Planned medical treatment for a serious health condition of a family member.
- iii. An expected birth, or placement for adoption or foster care.

c. If an employee fails to provide the requisite 30-day advance notice for foreseeable events without any reasonable excuse for the delay, the District reserves the right to delay the taking of the leave by up to 30 days after the date the employee provides notice of the need for FMLA/CFRA leave.

2. Unforeseeable Events: If an employee requires FMLA/CFRA leave for an unforeseeable event, the employee is required to provide notice to the District as soon as is practicable.

3. Notice of Intermittent/Reduced Schedule Leave: The notice requirements for foreseeable intermittent or reduced schedule leaves shall be the same as for other foreseeable leaves, and the notice requirements for unforeseeable intermittent or reduced schedule leave shall be the same as for other unforeseeable leaves.

4. Incomplete Notice: If the employee’s notice does not contain sufficient information for the District to determine whether the employee’s leave could be for an FMLA/CFRA-qualifying purpose, Human Resources may follow up with the employee for additional information and the employee is required to respond to the same. However, the employee shall not be required to provide the District with a diagnosis.

5. Changes to Dates of Leave: The employee must advise Human Resources as soon as practicable when he/she learns that the dates of the FMLA/CFRA leave may change.

6. Requests for Extension: Any requests for extensions of an FMLA/CFRA leave must be received at least five working days before the date on which the employee was originally scheduled to return to work, where practicable, and must include the revised anticipated date(s) and duration of the FMLA/CFRA leave. If the employee has exhausted his/her leave entitlement under Section II.D., the District will evaluate on a case-by-case basis whether additional leave may be available as a reasonable accommodation for the employee's own serious health condition; however,

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any such additional leave shall not be subject to the provisions of this Section II.

I. District Response to a Request for FMLA/CFRA Leave or Request for Extension - Eligibility Notice: Within five working days of an employee's request to take FMLA/CFRA leave, the District shall provide the employee with a written Eligibility Notice. The Eligibility Notice is not a designation of the employee being on FMLA/CFRA Leave. The Eligibility Notice shall include the following information:

1. Whether the employee is eligible to take FMLA/CFRA leave. If the employee is ineligible for FMLA/CFRA leave, the notice will include the reason(s) why the employee is ineligible.
2. Whether the employee has exhausted his/her 12-week FMLA/CFRA entitlement.
3. Whether additional information, such as a medical certification, is required from the employee in order to process the employee's request for FMLA/CFRA leave or request for extension.
4. The employee's rights and responsibilities under the FMLA/CFRA, which will include a statement of whether the employee is required to provide a medical certification or recertification. A statement requiring a medical certification will also advise the employee of the anticipated consequences of his/her failure to provide adequate notice.
5. If the employee has requested an extension of leave for his/her own serious health condition but has exhausted his/her leave entitlement under Section II.D., the District will advise whether additional leave will be granted as a reasonable accommodation; however, any such additional leave shall not be subject to the provisions of this Section II.

J. Medical Certification and Recertification: Any request for FMLA/CFRA leave for an employee's own serious health care condition or for FMLA/CFRA leave to care for a family member with a serious health condition must be supported by medical certification from the treating health care provider. Employees are encouraged to use the District's medical certification form to ensure that all pertinent information is obtained. Any request for an extension of FMLA/CFRA leave also must be supported by a medical certification from the treating health care provider. Again, employees are encouraged to use the District's medical certification to ensure that all pertinent information is obtained.

1. Timing of Request for Medical Certification: The District will request medical certification:

- a. Within five business days after an employee requests foreseeable leave;

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- b. Within five business days after an employee provides notice of an unforeseeable leave, or within five business days after an unforeseeable leave commences, whichever is later;
- c. At a later date if the District has a reason to question the appropriateness or duration of an employee's leave (FMLA only).

2. Timing for Employee's Return of the Medical Certification:

All medical certifications and recertifications must be returned to the District within 15 days from the District request, regardless of whether the leave is foreseeable or unforeseeable. Exceptions to this may be granted by Human Resources when it is not practicable to provide the certification or recertification within 15 days, despite the employee's diligent, good faith efforts to do so.

3. Certification for Serious Health Condition of Spouse,

Registered Domestic Partner, Parent, or Child: The employee must have the patient's treating health care physician complete a medical certification form when requesting family leave to care for a family member with a serious health condition. Employees are encouraged to use the District's medical certification form to ensure that all pertinent information is obtained.

- a. **Medical Recertification:** If the employee requests additional leave beyond the time period which the health care provider originally estimated that the employee needed to take care of the employee's child, parent, spouse, or registered domestic partner, the District may request a recertification from the employee.

4. Certification for the Employee's Own Serious Health Condition:

- a. **First Opinion:** The employee must have his/her health care physician complete a medical certification form when requesting FMLA/CFRA leave for his/her own serious health condition. Employees are encouraged to use the District's medical certification form to ensure that all pertinent information is obtained.
- b. **Second and Third Opinions:** If the District has reason to doubt the validity of the certification provided by the employee, the District may require the employee to obtain a second opinion from a doctor of the District's choosing at the District's expense. If the employee's health care provider and the doctor providing the second opinion do not agree, the District may require a third opinion, also at the District's expense, performed by a mutually agreeable doctor who will make a final determination that shall be binding on both the District and the employee.
- c. **Medical Recertification:** The District may request recertification of a medical condition upon the expiration of the

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time period, which the health care provider originally estimated, if additional FMLA/CFRA leave is requested.

5. Certification for an Employee’s Return to Work:

a. Returning from a Continuous Leave: As a condition of restoration to his/her former position, an employee taking continuous leave under the FMLA/CFRA is required to provide the District with certification from his/her health care provider stating that he/she is able to resume his/her essential work functions. An employee who fails to provide the certification may have his/her reinstatement delayed.

b. Returning from an Intermittent or Reduced Schedule Leave: In addition to the requirement in Section 5.a., above, if the employee is on intermittent or reduced schedule leave, the District may require a fitness for duty certification at fixed intervals not exceeding every 30 days if there are reasonable safety concerns. “Reasonable safety concerns” means a reasonable belief of significant risk of harm to the employee or others.

c. Contents of Certification: The District will provide the employee with a form and a copy of the employee’s job description for his/her health care provider to review in completing the return to work certification, and employees are encouraged to use the District’s form to ensure that all pertinent information is obtained. The employee must provide a complete and sufficient fitness for duty certification. If the employee’s health care provider releases the employee back to work with restrictions, the District will engage in the interactive process to determine what reasonable accommodation, if any, will permit the employee to return to work in accordance with the ADA and the FEHA.

6. Employee’s Failure to Provide a Medical Certification or Recertification: If the employee fails to timely provide a complete and sufficient medical certification when requested, the request for FMLA/CFRA leave may be denied, delayed until a sufficient certification is provided. Employees will be advised of these consequences in connection with any request by the District for medical certification or recertification.

K. District’s Designation of Leave: Absent extenuating circumstances, within five working days after the District has acquired enough information to determine whether the employee’s request qualifies for FMLA/CFRA leave, the District will provide the employee with a written Designation Notice.

1. Designating Leave as FMLA/CFRA-Qualifying: If the leave is designated as being FMLA/CFRA-qualifying, the Designation Notice will contain, but is not limited to, the following information:

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- a. A statement that the leave is being designated as FMLA and/or CFRA leave;
 - b. The amount of leave being counted as FMLA and/or CFRA leave, if known;
 - c. Whether accrued paid leave will be used during the leave, and that any paid leave used will count as FMLA/CFRA leave;
 - d. Whether a medical certification will be required to release the employee to return to work; and
 - e. Whether a job description or description of essential duties is attached to the Designation Notice for the health care provider to use in completing the medical certification to release the employee to return to work.
2. **Unable to Designate:** If the District is unable to determine whether the leave requested is FMLA/CFRA-qualifying because more information is needed, the employee will be informed that
- a. the medical certification is incomplete or insufficient, and the District will provide a list of deficiencies and explain the employee’s opportunity to cure said deficiencies; or
 - b. a second or third medical opinion is being required.
3. **Not Designating Leave as FMLA/CFRA-Qualifying:** If the District has determined that the employee’s leave does not qualify as FMLA/CFRA leave, the District will notify the employee in writing that his/her leave is not being designated as FMLA/CFRA leave, and the reason for the denial.

L. **Employment Benefits and Protection:**

1. **Previously Accrued Benefits:**
 - a. Leave under the FMLA/CFRA will not result in the loss of any employment benefits accrued before the date the leave commenced.
 - b. Leave under the CFRA will not constitute a break in service or otherwise cause the employee to lose longevity, even if other paid or unpaid leave constitutes a break in service for purposes of establishing longevity, or for layoff, recall, promotion, job assignment, or longevity-related benefits.
2. **No Accrual of Leave during Unpaid FMLA/CFRA Leave:**
 - a. An employee on unpaid FMLA/CFRA leave shall not accrue any additional paid leave time. Thus, employees will not accrue vacation leave, sick leave, or other paid leave, nor will they be paid for holidays during the unpaid leave.

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b. However, during the time that an employee supplements his/her unpaid FMLA/CFRA leave with paid leave, the employee will continue to accrue leaves and benefits in accordance with the provisions of the District's policy governing those leaves of absence (i.e., when coordinating with sick leave, the rules governing sick leave will apply with regard to the employee's benefits).

3. Maintenance of Health Insurance of the Employee: Employees will continue to receive the same medical benefits while on FMLA/CFRA leave for up to 12 workweeks in a 12-month period. The District shall be responsible for the continued payment of the District's share of the cost of the employee's health benefits during that 12-workweek period. Benefits for absences beyond the allotted period will be handled in the same manner as benefits for employees on any other type of unpaid leave of absence.

4. Maintenance of Benefits Requiring Employee Contributions:

a. During any period of unpaid leave, unless otherwise prohibited by applicable law, an employee may elect to discontinue monthly payments into the flexible benefits account, and any other benefits offered or sponsored by the District to which the employee is required to make monthly contributions, other than group medical benefits. Employees must notify the District in writing of such an election.

- i. Employees returning from unpaid leave who have discontinued payments into their flexible benefits account have a right to elect to reinstate coverage at the same level of participation as before their leave.
- ii. Employees that experience an event that qualifies as a Qualified Status Change under IRS regulations are allowed to change the amount of their monthly payments into either the miscellaneous medical or dependent care flexible spending accounts. If this option is chosen, employees have thirty (30) days from the date of the qualified status change or from the date, they return from FMLA leave to change their payments. (See Policy No. 41-Flexible Advantage Program for more specific information on the Flexible Benefits Program)..
- iii. Expenses that are incurred during the time that employees are not making monthly payments are not eligible for reimbursement.

b. An employee will continue to be responsible for making the payment of his/her share of premiums for group medical benefits and any other contributions for which the District has not received advanced notice of election to discontinue. If any

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premium amounts are increased or decreased for other employees similarly situated, the employee will be required to pay the new premium rates.

c. All monthly contributions are due and payable to the District at the same time as they would be if made through payroll deduction.

d. The District and employees who are CalPERS members will continue to make contributions in accordance with the terms of the plan during any period of FMLA/CFRA leave in which the employee uses paid leave time. The District will not make plan payments for employees during any leave period which is unpaid, and the unpaid leave period will not be counted for purposes of service credit under the plan.

e. If the District provides a new health plan or benefits or changes health plans or benefits while an employee is on CFRA leave, the District will give written notice to the employee to advise that he/she is subject to the new or changed plan/benefits in the same manner, and to the same extent, as if the employee were not on leave.

5. Failure to Return from Leave: The District may recover the entire premium it paid for maintaining health insurance benefits for an employee during any period of unpaid leave if the employee fails to return to work promptly upon the expiration of a leave for a reason other than the continuation, recurrence or onset of a serious health condition that entitles the employee to leave or other circumstances beyond his/her control.

M. Reinstatement:

1. Restoration to Position: When an employee returns from a leave under the FMLA/CFRA, he/she will be restored to the position held when the leave began, or to a comparable position, with equivalent (i.e. virtually identical) employment benefits, pay, and other conditions of employment.

a. The duties of the position must be capable of being performed in the same or similar geographic location, and involve the same or substantially similar duties as the position held when leave began, with responsibilities that entail equivalent skill, effort, responsibility, and authority.

2. Denial of Restoration Rights: The District may refuse to reinstate an employee to his/her pre-leave position at the conclusion of an FMLA/CFRA leave when either of the following conditions exists:

a. Key Employee: The employee is a salaried eligible employee who is among the highest paid ten percent of the District's employees; and the following steps take place:

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- i. The District notifies the employee at the time the employee gives notice of the need for leave, or when leave commences, if earlier, that he/she is a key employee, and also notifies the employee of the potential consequences with respect to reinstatement and maintenance of health benefits if the District should determine that reinstatement will result in substantial and grievous economic injury to its operations; and
- ii. As soon as the District makes a good faith determination that substantial and grievous economic injury will result if the District reinstates that key employee at the end of the requested FMLA/CFRA leave period, the District notifies the employee that it intends to deny reinstatement at the end of the requested leave period.
 - A. The notice from the District will include an explanation for the basis for the District’s determination and provide the key employee with a reasonable time in which to return to work, taking into account the circumstances, such as the requested duration of the leave and the urgency of the need for the employee to return.
- iii. The key employee has already begun the FMLA/CFRA leave at the time of receiving the notice, and he/she does not return to work within the specified timeframe after receiving such notice from the District.
 - A. The key employee will remain entitled to the maintenance of health benefits under Section III.L.3. for the duration of the originally requested leave, but the District will not be entitled to recover its contributions to premiums under Section III.L.5.
 - B. The key employee’s rights will then continue under the CFRA unless and until the employee either gives notice that he/she will not seek to return to work or the employee requests to return to work at the conclusion of the leave and receives notice that the District has denied that request.
- iv. If the key employee requests to return to work upon completion of the originally requested leave, the District again determines that substantial and

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grievous economic injury will result if the District reinstates the employee, based on the facts at hand, and the District provides written notice of the denial.

b. Position No Longer Exists: The employee's position and any comparable position have ceased to exist because of legitimate business reasons unrelated to the employee's FMLA/CFRA leave. In this case, the District shall reasonably accommodate the employee through alternative means that will not cause undue hardship to the District's operation. The District may offer an employee any other position that is available and suitable. The District is not required to create new employment that would not otherwise be created, discharge or transfer another employee, or promote another employee who is not qualified to perform the job.

3. Opportunity to Fulfill Missed Requirements: If an employee is unable to attend a necessary course, renew a license, or is otherwise adversely affected in terms of fulfilling minimum requirements or qualifications for the position as a result of the FMLA/CFRA leave the employee will be given a reasonable opportunity to fulfill those requirements or qualifications upon returning to work from FMLA/CFRA leave.

III. PREGNANCY DISABILITY LEAVE OR TRANSFER.

A. Eligibility and Duration:

1. Eligibility

a. Any employee who is disabled on account of pregnancy, childbirth, or related medical conditions may take a pregnancy-related disability leave, regardless of the number of hours worked or her length of employment with the District. However, unless an employee has met the eligibility requirements under Section II.A. of this Policy, she shall not be subject to the additional terms and conditions that apply to an employee who is eligible for FMLA leave.

b. An employee's pregnancy-related disability is not considered a serious health condition under the CFRA and is not counted against an employee's CFRA leave eligibility.

2. Amount of Leave Entitlement: An eligible employee may take a pregnancy-related disability leave for the period of disability, up to four months (an equivalent of 17 1/3 weeks). The pregnancy disability leave shall run concurrently with any family care or medical leave to which the employee may be entitled under the FMLA. An employee is entitled to take off the number of days or hours that the employee would normally work during 17 1/3 weeks of employment. For example, an employee, who regularly works 40 hours per week, is entitled to take 693 hours of

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leave, and an employee who regularly works 20 hours per week, would be entitled to 346.5 hours of leave.

3. **Temporary Transfer:** Any employee affected by conditions related to pregnancy, childbirth, or related medical conditions is entitled to transfer temporarily to a less strenuous or hazardous position or to less strenuous or hazardous duties upon the certification of the employee's health care provider that the transfer is medically advisable, if the transfer can be reasonably accommodated.
4. **Reasonable Accommodation:** The District will provide reasonable accommodation to an employee who is affected by pregnancy, childbirth or related medical conditions as required by law.

B. Use of Accrued Leave: An employee taking pregnancy-related disability leave must coordinate any available sick leave with her pregnancy-related disability leave. An employee taking pregnancy-related disability leave may, at her option, coordinate any other accumulated paid leaves, including, but not limited to, vacation time, holiday pay, or other paid leaves for which she is eligible, with her pregnancy-related disability leave. The paid leave shall run concurrently with the pregnancy-related disability leave, and shall not extend the employee's entitlement to pregnancy-related disability leave beyond the amount specified in Section III.A.2 of this Policy.

1. Coordination with Wage Replacement Plans:

- a. This provision only applies when the employee's pregnancy-related disability leave is also designated as a serious health condition under the FMLA.
- b. Pursuant to the provisions of the FMLA, if an employee is receiving a wage replacement payment from State Disability Insurance, Short-Term Disability, and/or Long-Term Disability, the employee and the District may mutually agree to coordinate the employee's accrued paid leaves with the amount received from the wage replacement plan, up to an amount equal to the employee's regular salary.
- c. If the employee is still receiving SDI benefits when her twelve workweeks of leave under the FMLA expire, the District will require that she begin coordinating any additional accrued sick leave with the wage replacement benefits. The employee may also elect to coordinate all other accrued paid leaves with the wage replacement benefits.

C. Notice: An employee should notify her supervisor of her need for pregnancy-related disability leave or transfer as soon as she is aware of the need for such leave.

1. Foreseeable Events: Where the need for pregnancy-related disability

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leave or transfer is foreseeable, the employee must provide at least 30 days' advance notice to the District of the need for pregnancy-related disability leave or transfer. If the leave or transfer is required in connection with any planned, non-emergency medical treatment or supervision, the employee shall consult with the District and make a reasonable effort to schedule any such planned medical treatment or supervision to minimize disruption to the District's operations, subject to the approval of the health care provider of the employee.

2. **Unforeseeable Events:** For non-emergency events that are not foreseeable 30 days in advance, or when 30 days' advance notice is not practicable, the employee must notify the District as soon as practicable under the circumstances, ordinarily within two working days after the employee learns of the need for leave.
3. **Notice of Intermittent Leave:** In the event that an employee requires intermittent pregnancy-related disability leave, she shall notify the District of the anticipated dates for the absences as much in advance as possible.
4. **Failure to Provide Notice:** If the employee fails to provide the requisite 30-day advance notice for foreseeable events without any reasonable excuse for the delay, the District reserves the right to delay the employee's right to take the FMLA/CFRA leave for up to 30 days after the date the employee provides notice of the need for pregnancy-related disability leave or transfer.

D. Contents of Notice or Request for Extension:

1. Employees must either use a Request for Leave of Absence Form or otherwise submit a request to Human Resources for pregnancy-related disability leave or transfer that includes the anticipated timing and duration of the leave or transfer and be sufficient to make the District aware that the employee requires a pregnancy-related disability leave or transfer. Any requests for extensions of a pregnancy-related disability leave or transfer must be received at least five working days before the date on which the employee was originally scheduled to return to work, where practicable, and must include the revised anticipated date(s) and duration of the pregnancy-related disability leave or transfer.
2. If the employee has exhausted her leave entitlement under Section III.A.2., the District will evaluate on a case-by-case basis whether additional leave may be available as a reasonable accommodation; however, any such additional leave shall not be subject to the provisions of this Section III.

E. Intermittent or Reduced Schedule Leave: Pregnancy-related disability leave can be taken on an intermittent or on a reduced schedule basis when medically advisable, as determined by the employee's health care provider. The minimum pregnancy-related disability leave increment that can be taken by an employee is fifteen minutes. If pregnancy-related disability is taken on an intermittent or reduced schedule basis and it is foreseeable based on planned medical treatment

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because of pregnancy, the District retains the discretion to temporarily transfer the employee to an alternative position, for which the employee is qualified, with equivalent pay and benefits, which better accommodates the employee's leave schedule, but need not have equivalent duties.

F. District Response to a Request for Pregnancy-Related Disability Leave or Transfer or Request for Extension: Within five working days of an employee's request for pregnancy-related disability leave or transfer, the District shall provide the employee with a written Eligibility Notice, which shall conform to the provisions of Section II.I. The Eligibility Notice shall also inform the employee of her additional rights under the California Pregnancy Disability Leave Law. If the employee has exhausted her leave entitlement under Section II.A.2., the District will advise whether additional leave will be granted as a reasonable accommodation; however, any such additional leave shall not be subject to the provisions of this Section III.

G. Medical Certification:

1. Timing of Certification: Any request for pregnancy-related disability leave or transfer must be supported by a medical certification from a health care provider.

a. For foreseeable pregnancy-related disability leaves or transfers, employees must provide the required medical certification before the leave/transfer begins. When this is not possible, employees must provide the required certification within 15 days, unless it is not practicable under the circumstances to do so. Failure to provide the required medical certification may result in the denial or delay of foreseeable pregnancy-related disability leaves or transfers until such certification is provided.

b. In the case of unforeseeable leaves, failure to provide the required medical certification within 15 days of being requested to do so may result in a denial of the employee's continued leave until certification is eventually provided. Any request for an extension of the leave/transfer must also be supported by an updated certification.

2. Contents of the Certification for Pregnancy-Related Leave: Employees are encouraged to use the District's medical certification when requesting pregnancy-related disability leave to ensure that all pertinent information is obtained. The following information must be included: (1) date the employee became or will become disabled due to pregnancy; (2) the probable duration of the period or periods of disability; and (3) an explanatory statement that, due to the disability, the employee is unable to work at all or is unable to perform any one or more of the essential functions of her position without undue risk to herself, to the successful completion of her pregnancy, or to other persons.

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3. **Contents of the Certification for Pregnancy-Related Transfers:** Employees are encouraged to use the District’s medical certification when requesting pregnancy-related disability transfer to ensure that all pertinent information is obtained. The medical certification for pregnancy-related transfer shall include: (1) date the employee became or will become disabled due to pregnancy; (2) the probable duration of the period or periods of disability; and (3) an explanatory statement that, due to the disability, the transfer is medically advisable.
 4. **No Second/Third Opinions Allowed:** There will not be a second or third opinion regarding pregnancy-related disability leave or transfer.
 5. **Return to Work Certification:** As a condition of restoration to her former position, an employee taking leave under the FMLA/PDL is required to provide the District with certification from her health care provider stating that she is able to resume her original job duties.
- H. District’s Designation of Leave:** Once an employee requests pregnancy-related disability leave or transfer, Human Resources shall notify the employee in writing whether the requested leave or transfer is approved and qualifies as pregnancy-related disability leave or transfer. This designation shall comply with the provisions of Section II.K., and shall inform the employee of any additional rights and obligations under the California Pregnancy Disability Leave Law.
- I. Employment and Benefits Protection:** The provisions set forth in Section II.L. of this Policy regarding employment and benefits protection in connection with FMLA/CFRA leave also, apply to all pregnancy-related disability leaves.
- J. Reinstatement:** Upon the completion of the employee’s pregnancy-related disability leave or transfer period, and upon submission of the return to work notice, the employee shall be returned to the same position she previously held, or to a comparable position as permitted by law. However, for pregnancy-related disabilities, there is no reinstatement exception for key employees.

IV. MILITARY FMLA/CFRA LEAVE.

The FMLA provides for two types of military family leave: military exigency leave and military caregiver leave. The CFRA also provides for military exigency leave. Terms and conditions for military family leave are addressed in Section IV.B. of this Policy.

- A. Military Exigency Leave:** The District permits employees who have a covered military family member in the Armed Forces (including the National Guard or Reserves) to take up to twelve workweeks of FMLA/CFRA leave due to a qualifying exigency resulting from the covered military family member’s active military duty (or call to active duty status) in support of a contingency operation. *Leave granted under this Section shall count against the FMLA/CFRA leave granted under Section II.*

1. **Definitions:**

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- a. **Armed Forces:** The Army, Navy, Air Force, Marine Corps, or Coast Guard, including the National Guard and Reserves.
 - b. **Covered Active Duty or Call to Active Duty Status:** One of the following:
 - i. For a member of a regular component of the Armed Forces, duty during the deployment of the member with the Armed Forces to a foreign country; or
 - ii. For a member of a reserve component of the Armed Forces, duty during the deployment of the member with the Armed Forces to a foreign country under a federal call or order to active duty in support of a contingency operation under a provision of law referred to in section 101(a)(13) (B) of Title 10, United States Code.
 - c. **Covered Military Family Member:** An employee may take leave under FMLA/CFRA for the employee's spouse, ~~registered domestic partner~~, son, daughter, or parent who is a member of the Armed Forces and is on Covered Active Duty or Call to Active Duty Status. An employee may take leave under CFRA for the employee's domestic partner who is a member of the Armed Forces and is on Covered Active Duty or Call to Active Duty status.
 - i. For purposes of this definition only, "son" or "daughter" means the employee's biological, adopted, or foster child, stepchild, legal ward, or a child for whom the employee stood *in loco parentis*, within the meaning of Section II.C.1. of this Policy, regardless of age.
 - d. **Covered Military Family Member's Child:** The biological, adopted, or foster child, stepchild, legal ward, or child for whom the Military Family Member stands *in loco parentis*, within the meaning of Section III.C.2. of this Policy, who is either under the age of 18 or who is aged 18 or older but incapable of self-care because of a physical or mental disability at the time leave under this Section IV.A. is to commence.
 - e. **Covered Military Family Member's Parent:** The biological, adoptive, step, or foster father or mother, or an individual who stood *in loco parentis*, within the meaning of Section II.C.2. of this Policy, to a Covered Military Family Member who was under 18 years of age.
2. **Qualifying Reasons for Military Exigency Leave:** Military exigency leave can be taken for the following non-medical, non-routine activities only:

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- a. **Short-Notice Deployment Activities:** If a Covered Military Family Member receives seven or less calendar days' notice prior to the date of deployment, an employee may take FMLA/CFRA leave to address any issue arising from an impending call or order to active duty in support of a contingency operation. The employee may take FMLA/CFRA leave for up to seven days beginning on the date the Covered Military Family Member receives the notice of impending call or order to active duty.
- b. **Military Events and Related Activities:** An employee may take FMLA/CFRA leave to attend any official ceremony, program, or event sponsored by the military that is related to the active duty or call to active duty status of the Covered Military Family Member. An employee may also take FMLA/CFRA leave to attend family support or assistance programs and informational briefings sponsored or promoted by the military, military service organizations, or American Red Cross that are related to the active duty or call to active duty status of a Covered Military Family Member.
- c. **Childcare and School Activities:** An employee may take FMLA/CFRA leave for the following reasons, if the reason is necessitated by the Covered Military Family Member's active duty or call to active duty status, or circumstances arising from it:
 - i. To make alternative childcare arrangements of a Covered Military Family Member's Child;
 - ii. To provide childcare for a Covered Military Family Member's Child on an urgent, immediate need basis, but not on a regular, routine, or everyday basis;
 - iii. To enroll in or transfer a Covered Military Family Member's Child in a new school or day care facility; and/or
 - iv. To attend meetings with staff at a school or day care facility, such as regarding disciplinary measures, parent-teacher conferences, or meetings with school counselors, for a Covered Military Family Member's Child.
- d. **Financial and Legal Arrangements:** An employee may take FMLA/CFRA leave in order to make or update financial or legal arrangements to address the Covered Military Family Member's absence while on active duty or call to active duty status; and/or to act as the Covered Military Family Member's representative before a federal, state, or local agency for purposes of obtaining, arranging, or appealing military service benefits while the Covered Military Family Member is on active duty or call to active duty status (up to a period of 90 days following the termination of the Covered Military Family Member's active duty status).

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- e. **Counseling Activities:** An employee may take FMLA/CFRA leave to attend counseling, provided that:
 - i. The need for counseling arises from the Covered Military Family Member's active duty or call to active duty;
 - ii. Such counseling is provided by someone other than a health care provider; and
 - iii. The counseling is for the employee, the Covered Military Family Member, and/or the Covered Military Family Member's Child. (Note that if medical counseling is needed due to a serious health condition, the employee may be able to take FMLA/CFRA leave under Section II instead.)

- f. **Rest and Recuperation Activities:** If a military member is granted short-term, temporary, rest and recuperation leave during the period of deployment, an employee may take FMLA/CFRA leave to spend time with the military member. An employee may take FMLA/CFRA leave for this purpose for up to fifteen working days for each instance of rest and recuperation, beginning on the date the Covered Military Family Member commences each instance of rest and recuperation leave.

- g. **Post-Deployment Activities:** An employee may take FMLA/CFRA leave to attend arrival ceremonies, reintegration briefings and events, and any other official ceremony or program sponsored by the military for a period of 90 days following termination of the Covered Military Family Member's active duty status. An employee may also take FMLA/CFRA leave to address issues that arise from the death of a Covered Military Family Member while on active duty status, such as meeting and recovering the body of the Covered Military Family Member.

- h. **Parental Care:** An employee may take FMLA/CFRA leave for care of a Covered Military Family Member's Parent who is incapable of self-care.
 - i. "Incapable of self-care" means that the individual requires active assistance to provide daily self-care in three or more of the following activities: caring appropriately for one's grooming and hygiene; bathing; dressing; eating; cooking; cleaning; shopping; taking public transportation; paying bills; maintaining a residence; using telephones and directories; using a post office; or other activities or instrumental activities of daily living.
 - ii. An employee may take parental care leave for the

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following purposes when the need arises from the covered active duty or call to active duty of the Covered Military Family Member:

- A. To arrange for alternative care of the Covered Military Family Member's Parent from the existing care arrangement;
- B. To provide care for the Covered Military Family Member's Parent on an urgent, immediate need basis (as opposed to a routine, regular, or everyday basis);
- C. To admit to or transfer to a care facility the Covered Military Family Member's Parent; or
- D. To attend meetings with staff at a care facility, such as meetings with hospice or social service workers, that are not regular or routine.

i. **Additional Activities:** An employee may take FMLA/CFRA leave for another form of exigency, provided that:

- i. The reason for the leave arises out of the Covered Military Family Member's active duty or call to active duty;
- ii. The District and the employee mutually agree that such leave shall be considered taken for a qualifying exigency; and
- iii. The District and employee mutually agree on the timing and duration of the leave.

3. **Employee Notice of Need for Military Exigency Leave.**

- a. **Timing of Notice:** Employees are required to give notice of the need for military exigency leave as soon as practicable under the circumstances.
- b. **Content of Notice:** Employees are required to use a Request for Leave of Absence Form or otherwise provide the District with sufficient information, depending on the situation, to notify the District as to the anticipated timing and duration of the leave, that a Covered Military Family Member is on active duty or call to active duty status, and that one of the qualifying exigencies in Section IV.A.2. is present.
- c. **Updates from Employee:** The employee is required to advise the District as soon as is practicable when the dates of leave or other circumstances change.

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4. **District Response to Notice of Need for Military Exigency Leave:** The District will request any additional, necessary information needed to process the employee's request and will also follow the procedures set forth under Section II of this Policy in responding to an employee's notice that he/she has a need for military exigency leave.

5. **Certification of Need for Military Exigency Leave:** The District will request certification of the employee's need for military exigency leave when it provides notice under Section II., and will provide the employee with a form to complete or an explanation of the information needed. Employees requesting military exigency leave for the first time for a particular active duty or call to active duty are also required to provide the District with a copy of the military member's active duty orders.

a. **Required Information for Certification:**

i. A signed statement or description by the employee of the facts supporting the request for leave for one or more of the reasons set forth in Section IV.A.2 and any available supporting written documentation, including, but not limited to, meeting announcements, appointment confirmations, or a copy of a bill for services.

ii. The approximate date on which the reason for the leave commenced, or will commence.

iii. The applicable timeframe.

A. If for a single, continuous period, the beginning and end dates for the employee's absence from work;

B. If on an intermittent or reduced schedule basis, the estimated frequency and duration of the employee's absences.

iv. For leave involving a meeting with a third party, appropriate contact information for the individual or entity, such as name, title, organization, address, telephone number, fax number, and email address, as well as a brief description of the purpose of the meeting.

v. For leave involving rest and recuperation activities, a copy of the Covered Military Family Member's Rest and Recuperation orders, or other documentation issued by the military indicating that the Covered Military Family Member has been granted Rest and Recuperation leave and identifying the dates of that Rest and Recuperation leave.

b. **Timing of District's Notice of Required Certification:** The

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District will request the certification in accordance with the timeframes set forth in Section II.J. of this Policy.

- c. **Insufficient or Incomplete Certification:** Employees are required to provide a complete and sufficient certification. If an employee provides an incomplete or insufficient certification, the District will give the employee written notice of the deficiencies and seven calendar days to cure the deficiencies, unless seven days is not practicable, despite the employee's diligent, good faith efforts. The employee's leave may be denied if he/she fails to provide timely a required certification.
- d. **Verification of Certification:** The District may verify the employee's certification by contacting the appropriate Department of Defense unit to verify the military member is on active duty or call to active duty status. If the exigency involves meeting with a third party, the District may contact the entity or individual with whom the employee is meeting to verify the meeting or appointment schedule and the nature of the meeting. The District will not request additional information. No permission from the employee is required for such verification.

B. Military Caregiver Leave: An employee who is the spouse, registered domestic partner, son, daughter, parent, or next of kin of a Covered Servicemember in the Regular Armed Forces, National Guard, or Reserves who has incurred a serious injury or illness in the line of duty while on active duty may take up to 26 workweeks in a single 12-month period per covered servicemember and per injury/illness of the servicemember. *Leave granted under this Section shall run concurrently with the FMLA and CFRA leave where applicable. Leave granted under this Section shall be included in computing the employee's 12 weeks of leave granted under the FMLA, so that an employee may not, under any circumstances, exceed 26 total weeks of FMLA leave in a rolling 12-month period.*

1. Definitions:

- a. **Armed Forces:** The Army, Navy, Air Force, Marine Corps, or Coast Guard, including the National Guard and Reserves
- b. **Authorized Health Care Provider:** For purposes of completing, the certification required under Section IV.3.b., any one of the following:
 - i. United States Department of Defense ("DOD") health care provider;
 - ii. A United States Department of Veterans Affairs ("VA") health care provider;

POLICY 19 – FAMILY AND MEDICAL CARE LEAVES OF ABSENCE

- iii. A DOD TRICARE network authorized private health care provider;
- iv. A DOD non-network TRICARE authorized private health care provider; or
- v. Any health care provider permitted to provide medical certification under Section II of this Policy.

c. Covered Servicemember:

- i. A current member of the Armed Forces who is undergoing medical treatment, recuperation, or therapy, is otherwise in outpatient status, or is otherwise on the temporary disability retired list, for a Serious Injury or Illness; or
- ii. A veteran who is undergoing medical treatment, recuperation, or therapy, for a Serious Injury or Illness and who was a member of the Armed Forces, at any time during the period of five years preceding the date on which the employee commences FMLA leave to care for the veteran. If the veteran was discharged or released under conditions other than dishonorable, the period from October 28, 2009 through February 8, 2013 shall not be counted in determining whether the veteran's last day of service falls within the five-year period.

d. Next of Kin: The nearest blood relative of a Covered Servicemember (other than his/her spouse, registered domestic partner, parent, son, or daughter), in the following priority order:

- i. A blood relative designated in writing by the servicemember as his/her nearest blood relative for purposes of military caregiver leave under the FMLA, who, if so designated, shall be the only next of kin for purposes of this Policy;
- ii. Blood relatives who have been granted legal custody of the servicemember by court decree or statutory provisions;
- iii. Brothers or sisters;
- iv. Grandparents;
- v. Aunts or uncles; and
- vi. First cousins.

If no blood relative has been designated under Section IV.B.1.d.i., all blood relatives at the next applicable level of priority shall be

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considered "next of kin" who may take FMLA leave to provide care for the Covered Servicemember, either simultaneously or not.

- e. **Outpatient Status:** The status of a Covered Servicemember who is assigned to a military medical treatment facility as an outpatient, or a unit established for the purpose of providing command and control of members of the military receiving medical care as outpatients.
- f. **Parent of a Covered Servicemember:** A Covered Servicemember's biological, adoptive, step or foster father or mother, or an individual who stood *in loco parentis* to a Covered Servicemember, within the meaning of Section II.C.2. of this Policy.
- g. **Son or Daughter of a Covered Servicemember:** A Covered Servicemember's biological, adopted, or foster child, step child, legal ward, or child for whom the Covered Servicemember stood *in loco parentis*, within the meaning of Section II.C.1. of this Policy, except that this definition shall apply regardless of the child's age.
- h. **Serious Injury or Illness:**
 - i. For a current member of the Armed Forces an injury or illness incurred by a Covered Servicemember in the line of duty on active duty (or that existed before the beginning of the member's active duty and was aggravated by service in the line of duty or active duty), and that may render the servicemember medically unfit to perform the duties of his/her office, grade, rank, or rating.
 - ii. For a veteran who is a Covered Servicemember:
 - A. an injury or illness that was incurred by the member in the line of duty on active duty in the Armed Forces (or existed before the beginning of the member's active duty and was aggravated by service in line of duty on active duty) and that manifested itself before or after the member became a veteran; and
 - B. is one of the following:
 - 1. a continuation of a Serious Injury or Illness that was incurred or aggravated when the veteran was a member of the Armed Forces and rendered him/her unable to perform the duties of his/her office, grade, rank, or rating; or

POLICY 19 – FAMILY AND MEDICAL CARE LEAVES OF ABSENCE

2. a physical or mental condition for which the veteran has received a U.S. Department of Veteran Affairs Service-Related Disability Rating (VASRD) of 50 percent or greater, and the VASRD rating is based, in whole or in part, on the condition precipitating the need for the military caregiver leave; or
3. a physical or mental condition that substantially impairs the veteran's ability to secure or follow a substantially gainful occupation by reason of a disability or disabilities related to military service, or would do so absent treatment; or
4. an injury, including a psychological injury, on the basis of which the veteran has been enrolled in the Department of Veterans Affairs Program of Comprehensive Assistance for Family Caregivers.

i. **Veteran:** A person who served in the Armed Forces, and who was discharged or released therefrom under conditions other than dishonorable.

2. **Terms of Military Caregiver Leave.** Except for the differences set forth in this Section IV.B., the District shall grant military caregiver leave under the same terms that FMLA/CFRA leave is granted under Section II to care for a parent, spouse, registered domestic partner, or child with a serious health condition.

3. **Required Certifications:** The District will provide the employee with a form to complete that certify the service member's family relationship, military status, and Serious Injury or Illness. The employee is required to ensure that this form, or an equivalent form containing the information set forth in this Section, is completely and sufficiently completed and returned within the same time periods set forth in Section II.J. of this Policy. If the employee fails to provide a complete and sufficient form, the District will inform him/her of the deficiencies, and grant the employee at least seven calendar days to cure them.

a. **Certification of Family Relationship and Military Status:**

The District will require proof of the servicemember's family relationship to the employee and proof of the servicemember's military status for the employee's first request of military caregiver leave for a particular illness or injury for a particular servicemember.

b. **Certification of Serious Illness or Injury:** The District will

POLICY 19 – FAMILY AND MEDICAL CARE LEAVES OF ABSENCE

require certification from an Authorized Health Care Provider that the servicemember is suffering from a Serious Illness or Injury. However, the employee will not be required to reveal the servicemember's diagnosis.

i. The Authorized Health Care Provider may base the certification upon his/her personal determination and/or may certify his/her reliance upon determination(s) made by an authorized DOD representative or an authorized VA representative. The certification must also include:

A. The name, address, appropriate contact information (telephone number, fax number, and/or email address) of the health care provider, the type of medical practice, the medical specialty, and the basis on which he/she is an authorized health care provider, as set forth in Section IV.B.1.b, above;

B. The approximate date on which the injury or illness commenced, or was aggravated, and its probable duration; and

C. Information sufficient to establish that the Covered Servicemember is in need of care and addressing the following matters:

1. Whether the need for care is for a single continuous period, and if so, an estimate of the beginning and ending dates, including any time needed for treatment and recovery;

2. Whether there is a medical necessity for periodic care, based on a schedule of planned medical treatment, and if so an estimate of the treatment schedule;

3. Whether there is a medical necessity for periodic care for reasons other than planned medical treatment, such as episodic flare-ups, and if so, an estimate of the frequency and duration of the periodic care.

4. **Alternative Certifications:**

a. **Special Automatic Certification:** The DOD may issue a special

POLICY 19 – FAMILY AND MEDICAL CARE LEAVES OF ABSENCE

invitation to a member(s) of a servicemember's family when a DOD health care provider has determined that the injury or illness is serious enough to warrant the immediate presence of a family member at the servicemember's bedside. If the DOD issues an invitational travel order ("ITO") or invitational travel authorization ("ITA") for "medical purposes" to any member(s) of the servicemember's family (even if the employee's name is not on it), the ITO or ITA constitutes automatic certification of military status and Serious Injury or Illness for the period of time specified in the ITO or ITA for the employee to take leave on either a continuous or intermittent basis, and the District will not require further certification of those matters for the specified period of time. However, in this circumstance, the District may still require proof of the covered family relationship between the employee and the servicemember. The ITO or ITA is in effect for the duration specified on it. If the employee wishes to request leave to care for a Covered Service Member beyond the period of time specified in an ITO or ITA, he/she must submit additional certification in accordance with Section IV.B.3.b., above.

- b. **Documentation of Enrollment in Department of Veterans Affairs Program of Comprehensive Assistance for Family Caregivers:** As another alternative to the certification required under Section IV.B.3.b., the District will accept as sufficient certification documentation of the Department of Veterans Affairs Program of Comprehensive Assistance for Family Caregivers, whether or not the employee is the named caregiver in the enrollment documentation. However, the District may still require proof of the covered family relationship between the employee and the servicemember. The District may also require proof of the servicemember's date of discharge and proof that the servicemember's discharge was other than dishonorable.
5. **Authentication and Clarification:** The District may seek authentication and clarification of a certification issued under Section IV.B.3.d., or of an ITO or ITA, or of documentation of enrollment in the Department of Veterans Affairs Program of Comprehensive Assistance for Family Caregivers.
6. **Second and Third Opinions:** No second or third opinions of the servicemember's Serious Illness or Injury will be sought from an Authorized Health Care Provider who meets the criterion set forth in V.B.1(a)(i)-(iv); however, the District may request a second or third opinion by an Authorized Health Provider who meets the criterion in V.B.1(a)(v). No second or third opinions will be sought regarding an ITO or ITA for the period of time specified in the ITO or ITA.
7. **Recertification:** No recertifications of the servicemember's Serious Illness or Injury will be sought.

POLICY 19 – FAMILY AND MEDICAL CARE LEAVES OF ABSENCE

- 8. Administrative Delays in Issuance of Military Documents:** When an employee is unable to submit required documentation within the timeframe required under Section II.J, despite his/her diligent, good faith efforts to obtain such documents, the District will not delay or deny leave on the grounds of such administrative delay.

V. EMPLOYEE RESPONSIBILITIES AND DUTY TO COOPERATE

Employees are expected to fully cooperate with the District in meeting the obligations and requirements set forth under this Policy, as well as those set forth in state and federal law. An employee's cooperation includes, but is not limited to, timely completion of all requested forms and responding to all inquiries for additional information. Cooperation also requires that an employee respond to the District's inquiries for information to determine whether the employee is requesting leave under the FMLA, CFRA, and/or PDL. Employees are also required to consult with the District and make a reasonable effort to schedule foreseeable treatments so as to not unduly disrupt the District's operations. Employees on family care or medical leave must respond to the District's reasonable inquiries and keep the District updated as to the status of the employee's family care or medical leave.

Failure to cooperate with the District or failure to meet the employee's responsibilities may result in a delay in granting the employee's leave, a denial of leave, and/or a denial of the protections and benefits afforded by the FMLA, CFRA, and/or PDL. Employees who have questions about their responsibilities under this Policy should direct their inquiries to Human Resources.

Adopted by IRWD Board of Directors on: [February 11, 2019](#)

IRVINE RANCH WATER DISTRICT
PERSONNEL POLICIES AND PROCEDURES
POLICY NO. 22 - HOLIDAYS

1. General Policy

The District recognizes the importance of leisure time in achieving greater productivity. Eligible employees will receive twelve paid holidays per year, two of which are considered floating holidays and one of which is considered a Personal Holiday. The two floating holidays are determined at the District's option, with approval of the General Manager. The personal holiday is determined by each eligible employee, subject to approval of the employee's supervisor.

2. Holiday Schedule

The District's twelve paid holidays are:

- New Year's Day
- President's Day (follow Federal schedule)
- Memorial Day
- Independence Day
- Labor Day
- Thanksgiving Day
- Friday following Thanksgiving Day
- Day before Christmas holiday
- Christmas Day
- Two Floating Holidays
- One Personal Holiday

Floating holidays are designated annually. The selection of floating holidays is designed to spread out the holidays as evenly as possible over the year so that employees have time away from their jobs at regular intervals to refresh themselves and spend time with their families. Staff also takes into consideration which holidays are commonly observed by the various school systems. A holiday schedule for each calendar year will be published and distributed to employees before the beginning of each calendar year.

3. Eligibility

A. Designated Calendar and Floating Holidays

All Regular District employees of the District are eligible for holiday pay based on their individual work schedule (5/8, 9/80 or 4/10) at the time the holiday occurs. Regular District employees assigned to a part-time schedule (less than 40 hours in one week) are eligible for pro-rated holiday pay based on the average daily hours worked during the payroll period in which the holiday occurs. District Temporary employees, paid through the District payroll system, are eligible for holiday pay when a holiday falls on their regularly scheduled day to work.

POLICY NO. 22 – HOLIDAYS

Eligible employees must be actively at work, or using sick or vacation time, the work day immediately prior to *and* the work day immediately following the holiday, in order to receive holiday pay. Any unauthorized absence occurring the day preceding or following the holiday will result in holiday pay not being granted.

B. Personal Holiday

Following 6 months of employment, all Regular District employees are eligible to take one scheduled workday off as a personal holiday each calendar year. The personal holiday must be requested by an employee and approved by the employee's supervisor at least one week before the employee plans to use it. ~~A personal holiday that is not used by December 31st of each calendar year in which is granted will be added to the employee's vacation accrual balance. When an employee is going to separate from the District for reasons of retirement or voluntary termination and at the time of separation his or her Personal Holiday has not yet been used, the Personal Holiday can accrue to the employee's vacation balance and then paid out to the employee upon separation in accordance with existing policy. When this situation occurs but the employee termination is involuntary, the Personal Holiday shall not accrue to the employee and shall not be paid out upon termination.~~

4. **Holidays Falling During Weekends and Vacations**

When a holiday falls on a weekend, the General Manager will select an alternate day off as a District holiday. Holidays that occur during an employee's vacation will not be counted as a vacation day.

When a scheduled holiday falls on an employee's regularly scheduled day off, vacation hours equal to the amount of hours normally scheduled to work on the corresponding day of the following work week, will be credited to the employee's vacation accrual account.

5. **Rate of Pay**

Regular employees will be paid holiday pay in an amount equivalent to their base hourly pay rate times the number of hours the employee was normally scheduled to work if the day were not a holiday

6. **Employees Required to Work on a District Observed Holiday**

Should a non-exempt employee be required to work on a holiday, he or she will receive holiday pay in addition to compensation at one and one half (1-1/2) times his or her regular rate of pay for time worked.

7. **Work Distribution on a District Observed Holiday**

Supervisors are responsible to schedule distribution of holidays to be worked as evenly as practicable among the employees within their respective departments.

Adopted by IRWD Board of Directors on: February 11, 2019

IRVINE RANCH WATER DISTRICT

PERSONNEL POLICIES AND PROCEDURES

POLICY NO. # 52– LACTATION ACCOMMODATION

DRAFT

1. Scope

The Irvine Ranch Water District (“District”) will provide employees who desire to express breast milk a private place and reasonable amount of break time to express milk for their nursing infant, so long as such break time does not seriously disrupt the District’s operations. This policy is in accordance with laws and regulations regarding lactation accommodation in the workplace.

2. Policy

- a. In accordance with applicable state and federal law, an employee who needs to express breast milk for the employee’s infant child will be permitted to take a reasonable amount of break time for that purpose, as a lactation accommodation. The break time must, if possible, run concurrently with any break time already provided to the employee. For non-exempt employees, break time that takes place outside of authorized paid rest time is unpaid. To the extent that break time would seriously disrupt the District’s operations, the District may limit the employee’s use of such time.
- b. An employee seeking lactation accommodation must contact Human Resources by email, or via other written communication. The District will respond via email or other written document within a reasonable period of time to acknowledge the request. Before implementing a lactation accommodation, the District will request input from the employee and the employee’s supervisor(s) regarding the anticipated timing of lactation break(s) and proposed location(s) for taking lactation breaks.
- c. Following such a request, the District will provide written details to the employee regarding the terms of the lactation accommodation, which will include:
 - i. Identification of a lactation space, other than a bathroom, that is in close proximity to the employee’s work area, is safe, clean, free of hazardous materials, and that is shielded from view and free from intrusion while the employee is lactating.
 - A. The District will also ensure that the lactation space contains a place to sit and a surface to place a breast pump and personal items and contains access to electricity or alternative devices (such as extension cords or charging stations) needed to operate an electric or battery-powered breast pump.

POLICY 52 – LACTATION ACCOMMODATION

- B. If the designated space is a room that may also be used for purposes other than lactation, the District will ensure that the use of the room for lactation will take priority over other uses
 - ii. Identification of a sink with running water and a refrigerator (or other cooling device suitable for storing expressed milk) that are in close proximity to the employee's work area and that will be accessible for the employee's use.
- d. If the District is unable to provide break time or a location in compliance with this policy, the District will provide the requesting employee a written notice that the District is unable to provide the requested accommodation.
- e. An employee requesting an accommodation under this policy has a right to file a complaint with the Labor Commissioner for any violation of a right under Chapter 3.8 of the Labor Code.

Adopted by IRWD Board of Directors on: xx,xxx

EXHIBIT "B"

RESOLUTION NO. 2021 - __

RESOLUTION OF THE BOARD OF DIRECTORS OF
IRVINE RANCH WATER DISTRICT,
SUPERSEDING RESOLUTION NO. 2021-2 AND
ESTABLISHING REVISED PERSONNEL POLICIES AND PROCEDURES

The Irvine Ranch Water District (IRWD) is a California Water District formed pursuant to Division 13 of the Water Code of the State of California; and

Section 34900 of said Code provides that the Board of Directors shall employ and appoint such agents, officers and employees as may be required and prescribe their duties and fix their salaries; and

By adoption of Resolution No. 2021-2 dated January 11, 2021, the Board established revised Personnel Policies and Procedures; and

The Board of Directors of Irvine Ranch Water District deem it advisable and in the best interest of said District to revise Personnel Policies and Procedures periodically to ensure compliance with current employment and labor laws and regulations.

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

Section 1. That Resolution No. 2021-2 be and hereby is superseded.

Section 2. That the Personnel Policies and Procedures for Irvine Ranch Water District be, and hereby are, approved and adopted as more specifically set forth in Attachment I of this Resolution, attached hereto and by this reference made a part hereof.

ADOPTED, SIGNED AND APPROVED this 13th day of December 2021.

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:

By: _____
Claire Hervey Collins, General Counsel
Hansen Bridgett LLP

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December 13, 2021
Prepared by: L. Srader
Submitted by: T. Mitcham
Approved by: Paul A. Cook



CONSENT CALENDAR

ADOPTION OF REVISED IRWD SCHEDULE OF POSITIONS AND SALARY RATE RANGES

SUMMARY:

Staff recommends the Board adopt a resolution rescinding Resolution No. 2021-21 and revising IRWD's Schedule of Positions and Salary Rate Ranges.

BACKGROUND:

Periodic review of current budgeted positions has determined the need for additional adjustments to the District's Schedule of Positions and Salary Rate Ranges. Staff recommends the Board adopt a revised Schedule of Positions and Salary Rate Ranges to incorporate the following changes:

- 1) Downgrade the Principal Engineer classification from U23.E to U22.E: This change will align the salary to better reflect the duties of the position and increase the salary differential between the Principal Engineer and Engineering Manager classifications.
- 2) Add a Senior Energy and Water Resources Planner (U17.E) classification: This position is currently an Engineer, and this change will better reflect the duties of the position.

When changes such as these are made, the California Public Employees' Retirement System (CalPERS) requires that each 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. 2021-21), effective December 13, 2021.

FISCAL IMPACTS:

There are sufficient funds included in the Fiscal Year 2021-22 Operating Budget, approved by the Board on April 26, 2021, to accommodate 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. 2021 -

RESOLUTION OF THE BOARD OF DIRECTORS OF THE
IRVINE RANCH WATER DISTRICT RESCINDING
RESOLUTION NO. 2021-21 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 adopting
a new Schedule of Positions and Salary Rate Ranges

Exhibit "B" – Salary Grade Schedule

EXHIBIT "A"

RESOLUTION NO. 2021 -

RESOLUTION OF THE BOARD OF DIRECTORS
OF IRVINE RANCH WATER DISTRICT,
SUPERSEDING RESOLUTION NO. 2021-21 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. 2021-21 on September 27, 2021, 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. 2021-21 on September 27, 2021, is hereby superseded effective December 13, 2021

Section 2. That the Schedule of Positions and Salary Rate Ranges for the Irvine Ranch Water District as set forth in Exhibit "B" attached to this Resolution, and as effective December 13, 2027, for all classifications, is hereby approved and adopted.

ADOPTED, SIGNED and APPROVED on December 13, 2021.

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:

By: _____
Claire Hervey Collins, General Counsel
Hansen Bridgett LLP

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Exhibit "B"

Schedule "A"

**IRVINE RANCH WATER DISTRICT
MONTHLY SALARY GRADE SCHEDULE**

Managers, Exempt Supervisors, Confidential & Exempt Employees

Effective December 13, 2021

	MINIMUM	MAXIMUM	EXCEPTIONAL PERFORMANCE TOP OF RANGE
<u>NON-EXEMPT</u>			
Salary Grade U1.N	\$3,165	\$3,924	\$4,120
Salary Grade U2.N	\$3,234	\$4,032	\$4,234
Salary Grade U3.N	\$3,302	\$4,143	\$4,350
Salary Grade U4.N	\$3,363	\$4,264	\$4,477
Salary Grade U5.N	\$3,440	\$4,381	\$4,601
Salary Grade U6.N	\$3,507	\$4,509	\$4,735
Salary Grade U7.N	\$3,577	\$4,634	\$4,867
Salary Grade U8.N	\$3,655	\$4,767	\$5,005
Salary Grade U9.N	\$3,724	\$4,898	\$5,146
Salary Grade U10.N	\$3,802	\$5,033	\$5,283
Salary Grade U11.N	\$3,876	\$5,161	\$5,416
Salary Grade U12.N	\$3,952	\$5,313	\$5,579
Salary Grade U13.N	\$4,026	\$5,464	\$5,740
Salary Grade U14.N	\$4,117	\$5,619	\$5,901
Salary Grade U15.N	\$4,205	\$5,768	\$6,056
Salary Grade U16.N	\$4,305	\$5,930	\$6,225
Salary Grade U17.N	\$4,396	\$6,078	\$6,382
Salary Grade U18.N	\$4,492	\$6,241	\$6,555
Salary Grade U19.N	\$4,595	\$6,398	\$6,721
Safety Assistant			
Salary Grade U20.N	\$4,717	\$6,606	\$6,937
Salary Grade U21.N	\$4,852	\$6,805	\$7,148
Salary Grade U22.N	\$4,984	\$7,020	\$7,371
Executive Secretary			

	MINIMUM	MAXIMUM	EXCEPTIONAL PERFORMANCE TOP OF RANGE
Human Resources Assistant			
Salary Grade U23.N	\$5,116	\$7,232	\$7,592
Salary Grade U24.N	\$5,261	\$7,457	\$7,831
Salary Grade U25.N	\$5,399	\$7,686	\$8,073
Human Resources Technician			
Salary Grade U26.N	\$5,566	\$7,916	\$8,313
Executive Assistant			
Salary Grade U27.N	\$5,726	\$8,149	\$8,555
Salary Grade U28.N	\$5,894	\$8,390	\$8,811
Salary Grade U29.N	\$6,070	\$8,634	\$9,067
Administrative Assistant Safety Specialist			
Salary Grade U30.N	\$6,253	\$8,890	\$9,335
Salary Grade U31.N	\$6,439	\$9,157	\$9,615
Human Resources Analyst			
Salary Grade U32.N	\$6,623	\$9,428	\$9,899
Salary Grade U33.N	\$6,817	\$9,702	\$10,188
Network Administrator User Support Administrator			
Salary Grade U34.N	\$7,020	\$9,970	\$10,471
Salary Grade U35.N	\$7,231	\$10,270	\$10,784

	MINIMUM	MAXIMUM	EXCEPTIONAL PERFORMANCE TOP OF RANGE
EXEMPT			
Salary Grade U1.E	\$5,090	\$6,539	\$6,866
Salary Grade U2.E	\$5,260	\$6,793	\$7,133
Salary Grade U3.E	\$5,428	\$7,046	\$7,401
Salary Grade U4.E	\$5,598	\$7,317	\$7,682
Salary Grade U5.E	\$5,768	\$7,588	\$7,968
Salary Grade U6.E	\$5,967	\$7,882	\$8,277
Salary Grade U7.E	\$6,158	\$8,174	\$8,581
Salary Grade U8.E	\$6,359	\$8,493	\$8,918
Salary Grade U9.E	\$6,553	\$8,805	\$9,243
Salary Grade U10.E	\$6,770	\$9,138	\$9,594
Asset Systems Analyst Assistant Engineer Customer Service Supervisor Development Services Supervisor Management Analyst Public Affairs Analyst Senior Public Affairs Specialist			
Salary Grade U11.E	\$6,988	\$9,475	\$9,951
Purchasing Supervisor			
Salary Grade U12.E	\$7,214	\$9,840	\$10,329
Environmental Compliance Analyst Financial Analyst Regulatory Compliance Administrator Senior Accountant Senior Water Efficiency Analyst Water Efficiency Supervisor			
Salary Grade U13.E	\$7,448	\$10,196	\$10,705
Communications Analyst/Deputy PIO GIS Supervisor Legislative Analyst Right of Way Agent Senior Human Resources Analyst Treasury Analyst Water Resources Planner			
Salary Grade U14.E	\$7,689	\$10,589	\$11,118
Accounting Supervisor			

	MINIMUM	MAXIMUM	EXCEPTIONAL PERFORMANCE TOP OF RANGE
Associate Engineer District Secretary QA/QC Compliance Adminstrator			
Salary Grade U15.E	\$7,934	\$10,986	\$11,533
Applications Analyst Automation Programmer Laboratory Supervisor Senior Regulatory Compliance Administrator Senior SCADA Network Administrator Senior Network Administrator			
Salary Grade U16.E	\$8,199	\$11,400	\$11,972
Salary Grade U17.E	\$8,460	\$11,820	\$12,409
Construction Inspection Manager Customer Service Manager Engineer Facilities/Fleet Manager Purchasing Manager Safety Manager Senior Energy and Water Resources Planner			
Salary Grade U18.E	\$8,735	\$12,270	\$12,882
Collection Systems Manager Community Relations 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	\$9,011	\$12,723	\$13,361
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	\$9,292	\$13,196	\$13,854
Salary Grade U21.E Controller Manager of Strategic Planning and Analysis	\$9,575	\$13,672	\$14,356
Salary Grade U22.E Applications Manager Network and Cybersecurity Manager Principal Engineer	\$9,882	\$14,180	\$14,890
Salary Grade U23.E	\$10,195	\$14,694	\$15,429
Salary Grade U24.E Engineering Manager	\$10,472	\$15,286	\$16,048
Salary Grade U25.E	\$10,795	\$15,863	\$16,656
Salary Grade U26.E	\$11,288	\$16,702	\$17,537
Salary Grade U27.E Director of Field Operations Director of Human Resources Director of Information Services Director of Maintenance Director of Strategic Communications & Advocacy/ Deputy General Counsel Director of Recycling Operations Director of Safety & Security Director of Water Quality & Regulatory Compliance Director of Water Resources Treasurer/Director of Risk Management	\$11,804	\$17,588	\$18,466
Salary Grade U28.E	\$12,347	\$18,513	\$19,438
Salary Grade U29.E	\$12,911	\$19,493	\$20,467
Salary Grade U30.E Executive Director of Finance Executive Director of Technical Services Executive Director of Operations Executive Director of Water Policy	\$13,507	\$20,529	\$21,554
Salary Grade U31.E	\$14,179	\$21,693	\$22,776

	MINIMUM	MAXIMUM	EXCEPTIONAL PERFORMANCE TOP OF RANGE
Salary Grade U32.E	\$14,889	\$22,928	\$24,075
Salary Grade U33.E	\$15,630	\$24,230	\$25,441
Salary Grade U34.E	\$16,414	\$25,605	\$28,322
General Manager			

IRVINE RANCH WATER DISTRICT
MONTHLY SALARY GRADE SCHEDULE
Non-Exempt Supervisors Unit
Effective December 13, 2021

	MINIMUM	MAXIMUM	EXCEPTIONAL PERFORMANCE TOP OF RANGE
<u>NON-EXEMPT</u>			
Salary Grade S26.N	\$5,566	\$7,916	\$8,313
Salary Grade S27.N	\$5,726	\$8,149	\$8,555
Salary Grade S28.N	\$5,894	\$8,390	\$8,811
Salary Grade S29.N	\$6,070	\$8,634	\$9,067
Salary Grade S30.N	\$6,253	\$8,890	\$9,335
Salary Grade S31.N Facilities Services Supervisor Fleet Supervisor	\$6,439	\$9,157	\$9,615
Salary Grade S32.N Collection Systems Supervisor Mechanical Services Supervisor	\$6,623	\$9,428	\$9,899
Salary Grade S33.N Cross Connection Supervisor Water Maintenance Supervisor	\$6,817	\$9,702	\$10,188
Salary Grade S34.N Construction Inspection Supervisor Automation Supervisor Electrical Supervisor Instrumentation Supervisor Water Monitoring Supervisor	\$7,020	\$9,970	\$10,471
Salary Grade S35.N Operations Supervisor	\$7,231	\$10,270	\$10,784

IRVINE RANCH WATER DISTRICT
MONTHLY SALARY GRADE SCHEDULE
General Employees Unit
Effective December 13, 2021

	MINIMUM	MAXIMUM	EXCEPTIONAL PERFORMANCE TOP OF RANGE
<u>NON-EXEMPT</u>			
Salary Grade 1.N	\$3,159	\$3,917	\$4,113
Salary Grade 2.N	\$3,227	\$4,024	\$4,225
Salary Grade 3.N	\$3,297	\$4,136	\$4,342
Salary Grade 4.N	\$3,357	\$4,255	\$4,467
Salary Grade 5.N	\$3,431	\$4,373	\$4,593
Salary Grade 6.N	\$3,500	\$4,500	\$4,725
Office Assistant Mail Coordinator			
Salary Grade 7.N	\$3,568	\$4,625	\$4,857
Salary Grade 8.N	\$3,648	\$4,758	\$4,996
Salary Grade 9.N	\$3,719	\$4,889	\$5,132
Salary Grade 10.N	\$3,793	\$5,021	\$5,270
Salary Grade 11.N	\$3,867	\$5,152	\$5,407
Material Control Clerk I Utility Worker			
Salary Grade 12.N	\$3,944	\$5,301	\$5,569
Salary Grade 13.N	\$4,018	\$5,455	\$5,725
Customer Service Specialist I Support Specialist			
Salary Grade 14.N	\$4,109	\$5,607	\$5,888
Salary Grade 15.N	\$4,197	\$5,757	\$6,046
Collection Systems Technician I Office Specialist			
Salary Grade 16.N	\$4,295	\$5,919	\$6,213
Accounting Clerk Customer Service Field Technician Metering Systems Technician I			

	MINIMUM	MAXIMUM	EXCEPTIONAL PERFORMANCE TOP OF RANGE
<hr/>			
Water Maintenance Technician I			
Salary Grade 17.N	\$4,386	\$6,065	\$6,367
<hr/>			
Customer Service Specialist II			
Salary Grade 18.N	\$4,482	\$6,229	\$6,539
<hr/>			
Material Control Clerk II Senior Support Specialist			
Salary Grade 19.N	\$4,585	\$6,387	\$6,706
<hr/>			
Development Services Specialist Purchasing Coordinator Senior Office Specialist			
Salary Grade 20.N	\$4,708	\$6,591	\$6,922
<hr/>			
Collection Systems Technician II Engineering Technician I GIS Technician I Operator I Senior Accounting Clerk			
Salary Grade 21.N	\$4,840	\$6,791	\$7,133
<hr/>			
Collection Systems CCTV Technician Customer Service Specialist III Senior Customer Service Field Technician			
Salary Grade 22.N	\$4,974	\$7,005	\$7,357
<hr/>			
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	\$5,104	\$7,217	\$7,577
<hr/>			
Senior Water Efficiency Field Technician			
Salary Grade 24.N	\$5,249	\$7,444	\$7,815
<hr/>			
Buyer Public Affairs Assistant Recycled Water Specialist Water Loss Prevention Specialist Wetlands Specialist			
Salary Grade 25.N	\$5,387	\$7,672	\$8,057

	MINIMUM	MAXIMUM	EXCEPTIONAL PERFORMANCE TOP OF RANGE
Engineering Technician II GIS Technician II Senior Collection Systems CCTV Technician Senior Collection Systems Technician			
Salary Grade 26.N	\$5,553	\$7,901	\$8,294
Cross Connection Specialist Metering Systems Technician III Water Efficiency Specialist Water Maintenance Technician III Water Resources Specialist			
Salary Grade 27.N	\$5,715	\$8,132	\$8,538
Accountant Operator II Senior Facilities Services Technician Senior Maintenance Mechanic Senior Water Loss Prevention Specialist Senior Vehicle/Equipment Maintenance Mechanic			
Salary Grade 28.N	\$5,882	\$8,374	\$8,794
Automation Technician Construction Inspector Electrical Technician Instrumentation Technician Landscape Contracts Administrator Scientist			
Salary Grade 29.N	\$6,057	\$8,618	\$9,047
Engineering Technician III GIS Technician III Operator III Public Affairs Specialist Senior Buyer Senior Recycled Water Specialist Senior Wetlands Specialist			
Salary Grade 30.N	\$6,241	\$8,872	\$9,318
Graphic Design Specialist Risk Analyst Senior Electrical Technician Senior Instrumentation Technician			
Salary Grade 31.N	\$6,424	\$9,140	\$9,594
Information Services Coordinator			

	MINIMUM	MAXIMUM	EXCEPTIONAL PERFORMANCE TOP OF RANGE
Payroll Administrator Recycled Water Project Specialist Senior Construction Inspector Senior Water Efficiency Specialist			
Salary Grade 32.N Asset Maintenance Coordinator Automation Specialist Environmental Compliance Specialist Process Specialist Senior Scientist Wetlands Scientist	\$6,610	\$9,409	\$9,880
Salary Grade 33.N Operations Coordinator Water Efficiency Analyst	\$6,803	\$9,683	\$10,166
Salary Grade 34.N	\$7,005	\$9,951	\$10,449
Salary Grade 35.N	\$7,216	\$10,249	\$10,762

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December 13, 2021
Prepared by: S. Toland / R. Mori
Submitted by: K. Burton
Approved by: Paul A. Cook */la.*

CONSENT CALENDAR

MICHELSON WATER RECYCLING PLANT
BIOSOLIDS AND ENERGY RECOVERY FACILITIES FINAL ACCEPTANCE

SUMMARY:

The Biosolids and Energy Recovery Facilities project is complete. IRWD's joint venture contractor Filanc-Balfour Beatty (FBB) completed the required work and all punch list items. The project has received final inspection and acceptance of construction is recommended. Staff recommends the Board:

- Authorize a budget increase in the amount of \$900,000, from \$265,542,100 to \$266,442,100;
- 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.

BACKGROUND:

Construction of the project was awarded to FBB in March 2013. The project includes biosolids digestion, dewatering, energy production, and on-site sludge drying facilities. The facilities were constructed on the land north of IRWD's existing Michelson Operations Center, maintenance shops, water quality laboratory, and warehouse. FBB has completed all construction, startup, and commissioning activities and has demobilized from the site. Staff will issue the Notice of Completion upon receipt of the remaining reports still being finalized by FBB.

Project Title:	MWRP Biosolids and Energy Recovery Facilities
Project No.:	04286
Design Engineer:	Black & Veatch
Construction Management by:	IRWD Staff
Contractor:	Filanc-Balfour Beatty Joint Venture
Original Contract Cost:	\$163,465,940.00
Final Contract Cost:	\$184,481,964.69
Final Cost with Settlement:	\$206,981,964.69
Final Change Order Approved On:	December 6, 2021

FISCAL IMPACTS:

Project 04286 is included in the FY 2021-22 Capital Budget. A budget increase is required as shown in the following table due to additional labor and legal fees to complete commissioning and project closeout.

<u>Project No.</u>	<u>Current Budget</u>	<u>Addition <Reduction></u>	<u>Total Budget</u>
04286	\$265,542,100	\$900,000	\$266,442,100

ENVIRONMENTAL COMPLIANCE:

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

COMMITTEE STATUS:

This item was not reviewed by a Committee.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE A BUDGET INCREASE IN THE AMOUNT OF \$900,000, FROM \$265,542,100 TO \$266,442,100, ACCEPT CONSTRUCTION OF THE BIOSOLIDS AND ENERGY RECOVERY FACILITIES, 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 FOR PROJECT 04286.

LIST OF EXHIBITS:

Exhibit "A" – Construction Change Order Summary

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

EXHIBIT "A"

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

				Contract Amount						Contract Days				Original Completion Date:
				Original Contract Amount: \$163,465,940.00						Original Days: 1,278				10/28/2016
Change Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
1	Approved by Exe. Director of Engineering and Water Quality Approved on October 24, 2013 1.1 Modifications to Road to Development Area - Delete AC to Triangle, add AB to Michelson (CR-004)	A	IRWD	\$ 20,202.42	\$20,202.42	\$0.00	\$20,202.42	0.01%	\$163,486,142.42	0	0	0	1,278	10/28/2016
2	Approved by Exe. Director of Engineering and Water Quality Approved on November 13, 2013 2.1 Street Light Conduit Modifications (CR-007)	B	IRWD	\$ 12,475.08	\$12,475.08	\$20,202.42	\$32,677.50	0.02%	\$163,498,617.50	0	0	0	1,278	10/28/2016
3	Approved by Board of Directors Approved on March 10, 2014 3.1 Bid Quantity Adjustment of Bid Item 8.6 Pre-Drill	B	FBB	\$ 745,503.00	\$745,503.00	\$32,677.50	\$778,180.50	0.48%	\$164,244,120.50	0	0	0	1,278	10/28/2016
4	Approved by Exe Dir of Eng & Water Quality Approved on March 14, 2014 4.1 Installation of Five Additional Groundwater Wells and Monitoring – (CR-006) PR 21146 (4286) Task 3505 4.2 Brace Bay Modifications at the FOG Station – (CR-015) PR 21146 (4286) Task 3505 4.3 Grounding Extension at Nitrogen and Mineral Oil System (CR-025) PR 21146 (4286) Task 3510	A	IRWD	\$11,047.81	\$23,029.22	\$778,180.50	\$801,209.72	0.49%	\$164,267,149.72	0	0	0	1,278	10/28/2016
5	Approved by Exe Dir of Eng & Water Quality Approved on March 14, 2014 5.1 Unidentified Utility - Meter Shop Discharge (CR-008) PR 21146 (4286) Task 3505 5.2 Connection Beam Modifications at Solids Handling Facility (CR-014) PR 21146 (4286) Task 3235 5.3 Increased Grating Thickness at Solids Handling Facility (CR-041) PR 21146 (4286) Task 3505	B	IRWD	\$15,225.75	\$24,851.73	\$801,209.72	\$826,061.45	0.51%	\$164,292,001.45	0	0	0	1,278	10/28/2016
6	Approved by General Manager Approved on March 20, 2014 6.1 Additional Costs to Install Piles to the Design Tip (CR-033) PR 21146 (4286) Task 3505	B	FBB	\$31,815.00	\$31,815.00	\$826,061.45	\$857,876.45	0.52%	\$164,323,816.45	0	0	0	1,278	10/28/2016

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

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

				Contract Amount						Contract Days				Original Completion Date:
				Original Contract Amount: \$163,465,940.00						Original Days: 1,278				10/28/2016
Change Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
7	Approved by Exe Dir of Eng & Water Quality Approved on April 21, 2014				\$24,725.00	\$857,876.45	\$882,601.45	0.54%	\$164,348,541.45	0	0	0	1,278	10/28/2016
	7.1 Meter Shop Discharge Pipe Leak Investigation and Repair (CR-013) PR 21146 (4286) Task 3505	B	IRWD	\$2,542.00						0				
	7.2 Additional Reinforcement and Lifting Eyes for Removable Slabs at Solids Handling Building (CR-021) PR 21146 (4286) Task 3505	C	FBB	\$14,059.00						0				
	7.3 Increased Grating Thickness at Solids Handling Facility (CR-041) PR 21146 (4286) Task 3505; Additional Conductance Probe Materials for Relay Level Switches for Various Sumps Located at the Microturbine Area PR 21146 (4286) Task 3510	C	FBB	\$8,124.00						0				
8	Approved by General Manager Approved on April 21, 2014				(\$49,990.00)	\$882,601.45	\$832,611.45	0.51%	\$164,298,551.45	0	0	0	1,278	10/28/2016
	8.1 Cost Sharing for Project Partnering (CR-Credit for Primavera 7.0 Project Portfolio Management Software (CR-002) PR 21146 (4286) Task 3235	A	IRWD	(\$14,611.00)						0				
	8.2 21146 (4286) Task 3235	A	IRWD	(\$2,700.00)						0				
	8.3 Deletion of Concrete Pad near Development Area (CR-004A) PR 21146 (4286) Task 3235	A	IRWD	(\$3,865.00)						0				
	8.4 Deletion of Ground Test Device (CR-034) PR 21146 (4286) Task 3210	A	IRWD	(\$15,579.00)						0				
	8.5 Deletion of Existing T-4 Switchgear Level Indicating Switch (CR-035) PR 21146 (4286) Task 3210	A	IRWD	(\$9,167.00)						0				
	8.6 Change to NEMA 4X Panels and Modification to NEMA 4X Bar Graph Display (CR-046) PR 21146 (4286) Task 3210	A	IRWD	(\$4,068.00)						0				
9	Approved by Exe. Director of Eng. & Water Quality Approved on May 31, 2014				\$24,840.17	\$832,611.45	\$857,451.62	0.52%	\$164,323,391.62	0	0	0	1,278	10/28/2016
	9.1 Additional Circuits for Gas Monitors and Re-route of Conduits in Solids Handling Facility (CR-028) PR 21146 (4286) Task 3510	C	FBB	\$1,187.49						0				
	9.2 Cantilevered Beam Support Modifications in the Solids Handling Facility (CR-049) PR 21146 (4286) Task 3505	C	FBB	\$4,605.30						0				
	9.3 Additional Ethernet Switches (CR-062) PR 21146 (4286) Task 3510	C	IRWD	\$19,047.38						0				
10	Approved by Exe. Director of Eng. & Water Quality Approved on May 31, 2014				\$21,398.99	\$857,451.62	\$878,850.61	0.54%	\$164,344,790.61	0	0	0	1,278	10/28/2016
	10.1 Additional Grace Ports for Various PLCs (CR-030) PR 21146 (4286) Task 3510	C	IRWD	\$8,580.62						0				
	10.2 Provide H-20 Rated Hatches at WAS Pump Station and Valve Vault (CR-061) PR 21146 (4286) Task 3505	C	IRWD	\$12,818.37						0				

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

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

				Contract Amount						Contract Days				Original Completion Date:
				Original Contract Amount: \$163,465,940.00						Original Days: 1,278				10/28/2016
Change Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
11	Approved by Exe. Director of Eng. & Water Quality Approved on June 4, 2014				\$24,739.76	\$878,850.61	\$903,590.37	0.55%	\$164,369,530.37	0	0	0	1,278	10/28/2016
11.1	Waste Activated Sludge (WAS) Pump Station Structural Modifications (CR-023) PR 21146 (4286) Task 3505	C	IRWD	\$12,905.49						0				
11.2	Removable Slab Modifications on the Second Floor of Solids Handling Building (CR-064) PR 21146 (4286) Task 3505	C	IRWD	\$11,834.27						0				
12	Approved by Board of Directors Approved on July 21, 2014				\$156,580.22	\$903,590.37	\$1,060,170.59	0.65%	\$164,526,110.59	0	0	0	1,278	10/28/2016
12.1	Final Bid Quantity Adjustment for Bid Item No. 5.2 – Undocumented Fill (suitable) – Remedial Grading – Remove and Re-compact a net increase of 8,104.7 CY from 51,700 CY to 59,804.7 CY at \$5/CY. PR 21146 (4286) Task 3505	B	N/A	\$40,523.37						0				
12.2	Final Bid Quantity Adjustment for Bid Item No. 5.5 - Undocumented Fill (not suitable) - Remedial Grading - Remove and Export Offsite, a net increase of 60 CY, from 1,800 CY to 1,860 CY at \$25 /CY. PR 21146 (4286) Task 3505	B	N/A	\$1,500.00						0				
12.3	Final Bid Quantity Adjustment for Bid Item No. 5.6 - Geotextile Fabric - Remedial Grading, a net decrease of 5,414 SF, from 181,500 SF to 176,086 SF at \$0.40/SF. PR 21146 (4286) Task 3505	B	N/A	(\$2,165.60)						0				
12.4	Final Bid Quantity Adjustment for Bid Item No. 5.7 - Aggregate Base - Remedial Grading net decrease of 217.4 CY, from 10,000 CY to 9,782.6 CY at \$30/CY. PR 21146 (4286) Task 3505	B	N/A	(\$6,523.33)						0				
12.5	Final Bid Quantity Adjustment for Bid Item No. 5.8 - Undocumented Fill - Deep Foundations – Removal, a net increase of 966 CY, from 21,650 CY to 22,616 CY at \$5.50/CY. PR 21146 (4286) Task 3505	B	N/A	\$5,313.00						0				
12.6	Final Bid Quantity Adjustment for Bid Item No. 5.9 - Alluvium - Remedial Grading - Removal and Export Offsite, a net increase of 2,076 CY, from 28,154 CY to 30,230 CY at \$35/CY. PR 21146 (4286) Task 3505	B	N/A	\$72,665.98						0				
12.7	Final Bid Quantity Adjustment for Bid Item No. 5.10 - Undocumented Fill Deep Foundations - Compaction of stockpiled materials, a net increase of 3,117 CY, from 11,400 CY to 14,517 CY at \$15/CY. PR 21146 (4286) Task 3505	B	N/A	\$46,755.00						0				
12.8	Final Bid Quantity Adjustment for Bid Item No. 5.11 - Undocumented Fill - Deep Foundations - Export excess offsite a net decrease of 2,151 CY, from 10,250 CY to 8,099 CY PR 21146 (4286) Task 3505	B	N/A	(\$30,114.00)						0				

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

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

				Contract Amount						Contract Days				Original Completion Date:
				Original Contract Amount: \$163,465,940.00						Original Days: 1,278				10/28/2016
Change Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
12.9	Final Bid Quantity Adjustment for Bid Item No. 5.12 - Geotextile Fabric - Deep Foundations, a net increase of 9,218 SF, from 51,500 SF to 60,718 SF at \$0.60/SF. PR 21146 (4286) Task 3505	B	N/A	\$5,530.80						0				
12.10	Final Bid Quantity Adjustment for Bid Item No. 5.13 - Aggregate Base - Deep Foundations, a net increase of 513.2 CY, from 2,860 CY to 3,373.2CY at \$45/CY. PR 21146 (4286) Task 3505	B	N/A	\$23,095.00						0				
13	Approved by Exe. Director of Engineering & Water Quality Approved on July 10, 2014				\$10,129.18	\$1,060,170.59	\$1,070,299.77	0.65%	\$164,536,239.77	0	0	0	1,278	10/28/2016
13.1	Modifications to Switchgear 16 (CR-070) PR 21146 (4286) Task 3510	A	FBB	\$10,129.18						0				
14	Approved by General Manager Approved on June 24, 2014				\$44,543.19	\$1,070,299.77	\$1,114,842.96	0.68%	\$164,580,782.96	0	0	0	1,278	10/28/2016
14.1	Slide Gates Clarification Regarding Actuators (CR-039) PR 21146 (4286) Task 3520	A	IRWD	\$44,543.19						0				
15	Approved by General Manager Approval on July 31, 2014				\$45,214.40	\$1,114,842.96	\$1,160,057.36	0.71%	\$164,625,997.36	0	0	0	1,278	10/28/2016
15.1	Provide Masonry Shelf Angle at Digester Control Building (CR-031) PR 21146 (4286) Task 3505	C	FBB	\$27,543.19						0				
15.2	Beam Size Increase for Monorail Runway in Solids Handling Building - (CR-074) PR 21146 (4286) Task 3505	C	FBB	\$1,200.47						0				
15.3	Upsize Odor Control Circulation Pump Motor Disconnects (CR-082) PR 21146 (4286) Task 3510	B	FBB	\$1,184.83						0				
15.4	Additional Deck Support for the Solids Handling Building Roof (CR-044) PR 21146 (4286) Task 3505	C	FBB	\$15,285.91						0				
16	Approved by E&O Committee Approved on August 19, 2014				\$62,037.10	\$1,160,057.36	\$1,222,094.46	0.75%	\$164,688,034.46	0	0	0	1,278	10/28/2016
16.1	Installation of Level 3 Diesel Particulate Filter (DPF) on the Standby Generator - (CR-073) PR 21146 (4286) Task 3520	B	IRWD	\$62,037.10						0				
17	Approved by Board of Directors Approved on August 25, 2014				(\$106,241.99)	\$1,222,094.46	\$1,115,852.47	0.68%	\$164,581,792.47	0	0	0	1,278	10/28/2016
17.1	Modifications to Switchgear 16 (CR-070A) PR 21146 (4286) Task 3510	A	FBB	(\$106,241.99)						0				
18	Approved by Board of Directors Approved on August 25, 2014				\$108,087.55	\$1,115,852.47	\$1,223,940.02	0.75%	\$164,689,880.02	0	0	0	1,278	10/28/2016
18.1	Stormwater Drainage System Modification (CR-017) PR 21146 (4286)	A	IRWD	\$108,087.55						0				

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

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

				Contract Amount						Contract Days				Original Completion Date:
				Original Contract Amount: \$163,465,940.00						Original Days: 1,278				10/28/2016
Change Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
19	Approved by Executive Director of Engineering & Water Quality Approved on September 30, 2014				\$72,572.86	\$1,223,940.02	\$1,296,512.88	0.79%	\$164,762,452.88	0	0	0	1,278	10/28/2016
19.1	Modification to Switchgear 16 (CR-070B) PR 21146 (4286) Task 3510	A	IRWD	\$1,125.75						0				
19.2	Alluvium Removal Due to 36-inch Storm Drain Installation (CR-085) PR 21146 (4286) Task 3520	B	N/A	\$14,140.00						0				
19.3	Additional Structural Support for Fats, Oils, and Grease (FOG) Grinders (CR-081) PR 21146 (4286) Task 3505	C	FBB	\$8,323.99						0				
19.4	Portable Lift Truck for 480V ABB Breakers (CR-108) PR 21146 (4286) Task 3510	A	IRWD	\$2,625.12						0				
19.5	Retaining Wall North and West of Biosolids Site (CR-010) PR 21146 (4286) Task 3505	B	IRWD	\$46,358.00						0				
20	Approved by Executive Director of Engineering & Water Quality Approved on November 19, 2014				\$54,485.63	\$1,296,512.88	\$1,350,998.51	0.83%	\$164,816,938.51	0	0	0	1,278	10/28/2016
20.1	Nitrogen Slab Modifications (CR-052) PR 21146 (4286) Task 3505	A	IRWD	\$24,855.80						0				
20.2	Additional Conduits and Circuits for the Access Control Systems for the Solids Handling Building and the Digester Control Building (CR-082) PR 21146 (4286) Task 3510	A	IRWD	\$3,412.13						0				
20.3	Digital Power Meters Change for SWGR-14 and SWGR-15 (CR-109) PR 21146 (4286) Task 3510	A	IRWD	\$3,863.22						0				
20.4	Truck Unloading Panel Modifications (CR-115) PR 21146 (4286) Task 3510	A	IRWD	\$12,843.50						0				
20.5	Switchgear SWGR-14 Modifications (CR-116) PR 21146 (4286) Task 3510	A	IRWD	\$9,510.98						0				
21	Approved by General Manager Approved on January 30, 2015				\$98,506.19	\$1,350,998.51	\$1,449,504.70	0.89%	\$164,915,444.70	0	0	0	1,278	10/28/2016
21.1	Additional Anchorage for Methane Digesters (CR-051A) PR 21146 (4286) Task 3520	B	FBB	\$92,367.44						0				
21.2	Additional Input/Outputs Review of Master I/O List (CR-136) PR 21146 (4286) Task 3510	C	FBB	\$6,138.75						0				

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

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

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				Original Contract Amount: \$163,465,940.00						Original Days: 1,278				10/28/2016
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22	Approved by Board of Directors Approved on February 9, 2015				\$964,324.51	\$1,449,504.70	\$2,413,829.21	1.48%	\$165,879,769.21	0	0	0	1,278	10/28/2016
22.1	Electrical Conduit Overfill (CR-055) PR 21146 (4286) Task 3510	C	FBB	\$485,250.28						0				
22.2	Heat Dryer Equipment Escalation Costs (CR-057) PR 21146 (4286) Task 3520	B	FBB	\$333,477.50						0				
22.3	Glass-lining Sludge Density Meters (CR-067) PR 21146 (4286) Task 3510	A	IRWD	\$71,010.74						0				
22.4	Switchgear-16 Enclosure (CR-040) PR 21146 (4286) Task 3510	C	FBB	\$56,882.30						0				
22.5	Propane Gas Tank Foundation Demolition (CR-084) PR 21146 (4286) Task 3505	C	IRWD	\$2,004.98						0				
22.6	Credit for travel costs related to inspection of centrifuges in Germany (CR-091) PR 21146 (4286) Task 3520	A	IRWD	(\$5,573.42)						0				
22.7	Deletion of MMC Switchgear-14 Breaker (CR-092) PR 21146 (4286) Task 3510	A	IRWD	(\$5,032.00)						0				
22.8	Increase of Fiber Optic Conduit Size (CR-097) PR 21146 (4286) Task 3510	C	IRWD	\$23,269.61						0				
22.9	Overtime to perform work in the Solids Handling electrical room (CR-103) PR 21146 (4286) Task 3510	A	IRWD	\$1,384.47						0				
22.10	Credit for modification to the Uninterruptible Power System (CR-118) PR 21146 (4286) Task 3510	A	IRWD	(\$9,771.72)						0				
22.11	Addition of Low Voltage Compartment in SCE Switch "C" (CR-160) PR 21146 (4286) Task 3510	A	IRWD	\$2,156.20						0				
22.12	Addition of input/output points relating to sump pumps located at the Solids Handling Building (CR-161) PR 21146 (4286) Task 3510	A	FBB	\$9,265.57						0				

**MWRP Biosolids and Energy Recovery Facilities
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23	Approved by General Manager Approved on February 26, 2015				\$97,005.10	\$2,413,829.21	\$2,510,834.31	1.54%	\$165,976,774.31	0	0	0	1,278	10/28/2016
23.1	Additional Steel Reinforcement the Pellet Storage Silos Anchor Bolts (CR-094) PR 21146 (4286) Task 3505	B	FBB	\$5,514.57						0				
23.2	Differential Pressure Transmitter (CR-094) PR 21146 (4286) Task 3510	A	IRWD	\$2,535.33						0				
23.3	Additional Aluminum Trench Grating in Digester Control Building (CR-107) PR 21146 (4286) Task 3520	A	IRWD	\$7,552.11						0				
23.4	Light Weight Concrete for Electrical Conduits Underneath the Solids Handling Building Electrical Room (CR-113) PR 21146 (4286) Task 3510	A	IRWD	\$30,535.94						0				
23.5	Adding Energyjets Weir Plates to Dewatering Centrifuges – (CR-124) PR 21146 (4286) Task 3520	A	IRWD	\$11,139.25						0				
23.6	Provide Angle Supports for the Removable Slabs at the Solids Handling Building – (CR-137) PR 21146 (4286) Task 3520	A	IRWD	\$20,671.61						0				
23.7	Structural Modification at Solids Handling Building – (CR-140) PR 21146 (4286) Task 3520	C	FBB	\$1,109.42						0				
23.8	Increase of Fiber Optic Conduit Size (CR-097) PR 21146 (4286) Task 3510	A	IRWD	\$5,516.45						0				
23.9	Steel Joist Framing Modifications at Digester Control Building (CR-151) PR 21146 (4286) Task 3505	C	FBB	\$2,286.29						0				
23.10	WAS Valve Vault and Piping Modifications (CR-100) PR 21146 (4286) Task 3520	A	IRWD	\$10,144.13						0				
24	Approved by General Manager Approved on March 6, 2015				\$99,122.95	\$2,510,834.31	\$2,609,957.26	1.60%	\$166,075,897.26	0	0	0	1,278	10/28/2016
24.1	Coating of WAS/Primary Sludge Pump Stations & Sludge Wetwells per RFI-0612A (CR-127) PR 21146 (4286) Task 3505	A	FBB	\$99,122.95						0				
25	Approved by Board of Directors Approved on March 23, 2015				\$280,575.97	\$2,609,957.26	\$2,890,533.23	1.77%	\$166,356,473.23	0	0	0	1,278	10/28/2016
25.1	Lightning Protection for the Methane Digesters (CR-121) PR 21146 (4286) Task 3505	C	FBB	\$158,259.68						0				
25.2	Deflagration Quench Tubes outside of the Dryer Room (CR-143) PR 21146 (4286) Task 3505	B	FBB	\$122,316.29						0				

**MWRP Biosolids and Energy Recovery Facilities
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26	Approved by Exe. Dir. Of Engineering & Water Quality Approved on April 14, 2015				\$74,815.79	\$2,890,533.23	\$2,965,349.02	1.81%	\$166,431,289.02	0	0	0	1,278	10/28/2016
26.1	UPS and Power Fail Alarms per RFI 357 (CR-056) PR 21146 (4286) Task	C	FBB	\$3,646.82						0				
26.2	I/O Points for Methane Digester Sump Pumps per RFI-356 (CR-077) PR 21146 (4286) Task 3510	C	FBB	\$6,489.00						0				
26.3	Loss of Power Alarms to the SCADA Network per RFI-0393B (CR-093) PR	A	FBB	\$20,297.16						0				
26.4	FOG Flushing and Rock Trap Modifications per RFI-0534 (CR-101) PR 21146	A	IRWD	\$18,093.61						0				
26.5	Install Grounding Pig Tails in Solids Handling Building Area Electrical Room per RFI 0594 (CR-105) PR 21146 (4286) Task 3510	A	IRWD	\$1,593.10						0				
26.6	Additional Pushbuttons, Light and Relays for the FOG Receiving Control Panel (CR-114) PR 21146 (4286) Task 3510	A	IRWD	\$6,892.40						0				
26.7	Changes to the HMI Enclosures at the Sludge Receiving Area (CR-133) PR 21146 (4286) Task 3510	A	IRWD	\$7,114.17						0				
26.8	Provide Storage Shelf for Keyboard and Mouse to the HMI Enclosures at the Sludge Receiving Area (CR-135) PR 21146 (4286) Task 3510	A	IRWD	\$1,163.26						0				
26.9	Dewatering Feed Pump Station Guardrail Additions (CR-142) PR 21146 (4286) Task 3520	C	FBB	\$4,204.00						0				
26.10	Additional I/O Points for PLC-4300 (CR-156) PR 21146 (4286) Task 3510	C	FBB	\$3,035.28						0				
26.11	Shoring Revision to Roof Slab of Dewatering Feed Pump Station (CR-189) PR 21146 (4286) Task 3510	B	FBB	\$1,286.99						0				
26.12	Coating of the Sludge Receiving Bins (CR-199) PR 21146 (4286) Task 3520	A	FBB	\$1,000.00						0				
27	Approved by Board of Directors Approved on April 27, 2015				\$107,253.26	\$2,965,349.02	\$3,072,602.28	1.88%	\$166,538,542.28	0	0	0	1,278	10/28/2016
27.1	Modifications to Human-Machine Interface (HMI) for the Microturbine Area (CR-078) PR 21146 (4286) Task 3510	A	IRWD	\$29,744.43						0				
27.2	Modifications to the Piping and Automation Features at Fats, Oils, and Grease (FOG) Facility (CR-129) PR 21146 (4286) Task 3510	A	IRWD	\$35,771.81						0				
27.3	Structural Support to the Monorail at the Dewatering Feed Pump Station (CR-152) PR 21146 (4286) Task 3505	C	FBB	\$13,697.51						0				
27.4	Two Additional Magnetic Flowmeters at Polymer Feed System (CR-158) PR 21146 (4286) Task 3510	A	IRWD	\$9,522.81						0				
27.5	Modifications to PLCs at Sludge Receiving Area (CR-180) PR 21146 (4286) Task 3510	A	IRWD	\$18,516.70						0				

**MWRP Biosolids and Energy Recovery Facilities
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28	Approved by Exe. Dir. Of Eng. & Water Quality Approved on May 15, 2015				\$74,550.35	\$3,072,602.28	\$3,147,152.63	1.93%	\$166,613,092.63	0	0	0	1,278	10/28/2016
28.1	Decanter Control Panel Modifications (CR-215) Task 3520	C	FBB	\$22,451.01						0				
28.2	Additional Structural Support in the Solids Handling Building (CR-075) Task 3505	C	FBB	\$12,028.44						0				
28.3	Additional Sump Pump Drain Line in the Bulk Polymer Storage Area (CR-119) Task 3520	C	FBB	\$1,433.86						0				
28.4	Install Three 5-inch conduits on Southwest Side of the Biosolids Site (CR-120) Task 3510	C	FBB	\$16,033.58						0				
28.5	Provide Power to Several Instruments Located at the Solids Handling Building and Digester Control Building (CR-154) Task 3520	C	FBB	\$3,454.91						0				
28.6	Install Foam Separator Drain at Digester Control Building (CR-167) Task 3520	C	FBB	\$11,013.75						0				
28.7	Install Support for 14-inch Plug Valve at Centrate Treatment Wetwell (CR-197) Task 3520	C	FBB	\$1,715.20						0				
28.8	Trench Modifications at the Sludge Cake Load-Out Area of the Solids Handling Building (CR-123) Task 3505	C	FBB	\$6,419.60						0				
29	Approved by Board of Directors Approved on June 22, 2015				\$225,971.77	\$3,147,152.63	\$3,373,124.40	2.06%	\$166,839,064.40	0	0	0	1,278	10/28/2016
29.1	Foul Air Pipe Supports in the Solids Handling Building Basement (CR-106) PR 21146 (4286) Task 3520	C	FBB	\$119,937.87						0				
29.2	Secondary Circuit Breaker for Transformer T-14 (CR-185) PR 21146 (4286) Task 3510	A	IRWD	\$106,033.90						0				

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30	Approved by Board of Directors Approved on July 27, 2015				(\$47,976.59)	\$3,373,124.40	\$3,325,147.81	2.03%	\$166,791,087.81	0	0	0	1,278	10/28/2016
30.1	Credit for Changing Storm Drain line from Ductile Iron to PVC (CR-042) PR 21146 (4286) Task 3520	A	IRWD		(\$1,890.92)					0				
30.2	Installation of Additional Digester Anchorage (CR-051B) PR21146 (4286) Task 3505	B	FBB		\$118,335.54					0				
30.3	Huber Screens I/O Modifications per RFI-0391 and RFI-0525A (CR-068) PR 21146 (4286) Task 3510	A	IRWD		\$12,579.20					0				
30.4	Credit for FBB's Portion of Partnering (CR-090) PR 21146 (4286) Task Deletion of Waterstops at Methane Digester Complex (CR-102) PR 21146	E	FBB		(\$81,948.33)					0				
30.5	(4286) Task 3505 Deletion of Bid Item No. 18.4 - Computers and Networking Hardware for the	A	IRWD		(\$200,000.00)					0				
30.6	Control System (CR-138) PR 21146 (4286) Task 3510	A	IRWD							0				
30.7	Electrical and Gas Modifications (CR-146) PR 21146 (4286) Task 3510	C	IRWD		\$363,978.41					0				
30.8	Credit for Changing Heat Dryer Wet Material Mixer from A24 Steel to A36 Steel (CR-157) PR 21146 (4286) Task 3520	E	FBB		(\$2,392.66)					0				
30.9	Credit for Travel Cost of On-Site Inspection for Acid Phase Digester (CR-175) PR 21146 (4286) Task 3520	B	IRWD		(\$683.39)					0				
30.1	Heat Dryer I/O Modifications per RFI-0626 (CR-179) PR 21146 (4286) Task 3510	A	IRWD		\$11,191.41					0				
30.11	Decant Trough I/O Modifications per RFI-0979 (CR-202) PR 21146 (4286) Task 3510	A	IRWD		\$9,960.55					0				
30.12	Deletion of Interior Coating of Methane Digesters (CR-188) PR 21146 (4286) Task 3520	A	IRWD		(\$398,571.00)					0				
30.13	Piping Modifications and Addition of Carbon Canisters (CR-218) PR 21146 (4286) Task 3520	A	IRWD		\$88,076.01					0				
30.14	Pickling and Passivation of Sludge Mixers (CR-248) PR 21146 (4286) Task 3520	C	IRWD		\$73,997.23					0				
30.15	IRWD Costs Associated to Repairing the Pile and Installing Couplers (CR-139) PR 21146 (4286) Task 3505	E	FBB		(\$38,102.85)					0				

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

**MWRP Biosolids and Energy Recovery Facilities
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34	Approved by Board of Directors Approved on October 26, 2015				\$164,775.28	\$3,533,078.26	\$3,697,853.54	2.26%	\$167,163,793.54	0	0	0	1,278	10/28/2016
34.1	Credit for Third Submittal Review Through 05/31/2015 (CR-088) PR 21146 (4286) Task 1065	B	IRWD		(\$39,502.50)					0				
34.2	Credit for Overtime Inspection Hours Through 05/31/2015 (CR-089) PR 21146 (4286) Task 3520	F	FBB		(\$80,850.00)					0				
34.3	Credit for Special Inspections for Structural Anchors and Geotechnical Investigation (CR-295) PR 21146 (4286) Task 1065	A	IRWD		(\$27,500.00)					0				
34.4	Change in Knife Gate Valve Manufacturer (CR-187) PR 21146 (4286) Task 3520	E	FBB		\$275,954.90					0				
34.5	Credit for Changes in Low Voltage SWGR-14 Circuit Breaker (CR-163) PR 21146 (4286) Task 3510	A	IRWD		(\$1,978.00)					0				
34.6	Change to Addressable Smoke Detectors (CR-220) PR 21146 (4286) Task 3510	B	IRWD		\$38,650.88					0				
35	Approved by General Manager Approved on November 25, 2015				\$97,980.57	\$3,697,853.54	\$3,795,834.11	2.32%	\$167,261,774.11	0	0	0	1,278	10/28/2016
35.1	Change in Naming Convention for Storm Water Pump Station (Area 1500) SCADA Programming (CR-181) PR 21146 (4286) Task 3510	E	FBB		\$9,027.03					0				
35.2	Valve Status Override Functionality (CR-182) PR 21146 (4286) Task 3510	E	FBB		\$38,999.08					0				
35.3	Control Changes for Primary Sludge and Waste Activated Pump Stations (Area 1900) SCADA Programming (CR-184) PR 21146 (4286) Task 3510	A	IRWD		\$36,772.78					0				
35.4	Motor Protection Relay (CR-239) PR 21146 (4286) Task 3510	A	IRWD		\$13,181.68					0				
36	Approved by General Manager Approved on December 3, 2015				\$86,007.50	\$3,795,834.11	\$3,881,841.61	2.37%	\$167,347,781.61	0	0	0	1,278	10/28/2016
36.1	Light Weight Concrete for Underslab Conduits at Microturbine Area (CR-253) PR 21146 (4286) Task 3510	A	FBB		\$21,117.50					0				
36.2	Outstanding CB&I Items (CR-099A) PR 21146 (4286) Task 3520 – This change order includes: CR-098 (Guard Rail at Biogas Storage Tank); CR-099 (Tube Steel Supports); additional Off-Site Storage Costs; and credit for Use of SS 308 in Lieu of SS 316L Welds.	B	FBB		\$64,890.00					0				

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37	Approved by Exe. Director of Engineering and Water Quality Approved on January 21, 2016				\$47,446.49	\$3,881,841.61	\$3,929,288.10	2.40%	\$167,395,228.10	0	0	0	1,278	10/28/2016
37.1	Additional Pressure Relief Valves in the Digester Control Building Slab (CR-112) PR 21146 (4286) Task 3520	C	IRWD	\$1,065.72						0				
37.2	Change Feeder Circuit Breaker Size in MCC-4102 (CR-165) PR 21146 (4286) Task 3510	C	IRWD	\$4,157.60						0				
37.3	Change Feeder Circuit Breaker Size for the Primary Sludge Pump Variable Frequency Drive (CR-233) PR 21146 (4286) Task 3510	C	IRWD	\$2,430.59						0				
37.4	SCADA Programming Changes Due to Change to Schweitzer Power Quality	A	FBB	\$16,814.00						0				
37.5	Additional Labeling of Parallel Conduits and Cables (CR-262) PR 21146 (4286) Task 3510	A	IRWD	\$8,410.00						0				
37.6	Change in Sludge Receiving Entrance Beacon Operation CR-263) PR 21146 (4286) Task 3510	A	IRWD	\$5,382.19						0				
37.7	Anodize Aluminum Light Fixture Stanchions/Sun Shades (CR-283) PR 21146 (4286) Task 3510	A	IRWD	\$5,911.61						0				
37.8	Hot Tap 8-Inch ACP Potable Water Line (CR-311) PR 21146 (4286) Task 3520	A	FBB	\$3,274.78						0				

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

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

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				Original Contract Amount: \$163,465,940.00						Original Days: 1,278				10/28/2016
Change Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
38	Approved by General Manager Approved on February 29, 2016				\$83,345.07	\$3,929,288.10	\$4,012,633.17	2.45%	\$167,478,573.17	0	0	0	1,278	10/28/2016
38.1	Software Control Block Revision for Area 4300 – Dewatering (CR-211) PR 4286 Task 3510	C	FBB	\$18,908.76						0				
38.2	Revised Master List of SCADA Templates (CR-247) PR 4286 Task 3510	C	FBB	\$47,274.54						0				
38.3	Additional Overflow Alarms at Sludge Holding Tanks (CR-280) PR 4286 Task 3510	A	IRWD	\$9,654.54						0				
38.4	Leak Detection at Sulfuric Acid Facility (CR-290) PR 21146 (4286) Task 3510	A	IRWD	\$5,499.97						0				
38.5	Insulation for Acid Phase Gas Piping (CR-218A) PR 21146 (4286) Task 3520	A	IRWD	\$2,007.26						0				
39	Approved by General Manager Approved on March 7, 2016				\$98,006.46	\$4,012,633.17	\$4,110,639.63	2.51%	\$167,576,579.63	0	0	0	1,278	10/28/2016
39.1	SCE Installation - Final Accounting of Work Items Between Negotiated Change Order and Actual Work (CR-146E) PR 4286 Task 3510	B	FBB	\$7,809.51						0				
39.2	Installation of Southern California Gas (SCG) Boxes (CR-146F) PR 4286 Task 3510	A	FBB	\$3,479.81						0				
39.3	Schweitzer SEL-735 Power Monitors for Centrifuge Panels (CR-207) PR 4286 Task 3510	A	IRWD	\$34,274.40						0				
39.4	Hirschmann Ethernet Switches for Centrifuge Panels (CR-208) PR 4286 Task 3510	A	IRWD	\$9,569.15						0				
39.5	Addition of Sample Pump Variable Frequency Drives for Thickening Centrifuges (CR-237) PR 4286 Task 3520	E	IRWD	\$24,496.55						0				
39.6	Upgrade of Exit Signs and Ceiling Lights in the Gas Room of the Digester Control Building to NEC Class 1 Division 1 (CR-313) PR 4286 Task 352	A	IRWD	\$18,377.04						0				
40	Approved by General Manager Approved on April 20, 2016				\$97,287.05	\$4,110,639.63	\$4,207,926.68	2.57%	\$167,673,866.68	0	0	0	1,278	10/28/2016
40.1	Brace Plates in Solids Handling Building (CR-069) PR 4286 Task 3505	C	FBB	\$40,216.76						0				
40.2	Relocation of RIO-50 Panel (CR-186) PR 4286 Task 3510	B	FBB	\$4,818.64						0				
40.3	Addition of Two Doors at the bases of the stairways at Methane Digesters Nos. 1 and No. 2 (CR-232) PR 4286 Task 3505	C	FBB	\$52,251.65						0				

**MWRP Biosolids and Energy Recovery Facilities
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41	Approved By Board of Directors Approved on May 23, 2016				\$1,103,650.56	\$4,207,926.68	\$5,311,577.24	3.25%	\$168,777,517.24	0	0	0	1,278	10/28/2016
41.1	Additional SCE and SCG Modifications (CR-146A) PR 4286 Task 3510	B	FBB	\$51,238.69						0				
41.2	Additional Potholing Due to SCE and SCG Realignment (CR-146B) PR 4286 Task 3510	B	FBB	\$36,706.57						0				
41.3	Additional Cameras at the Unloading/Loading Area of the Solids Handling Facility (CR-164) PR 4286 Task 3505	A	IRWD	\$61,731.96						0				
41.4	Fire Sprinkler System Modifications – Mechanical (CR-174) PR 4286 Task 3520	B	IRWD	\$154,592.08						0				
41.5	Fire Sprinkler System Modifications – Electrical (CR-166) PR 4286 Task 3510	B	IRWD	\$13,730.06						0				
41.6	Fiber Optic System Modifications (CR-172/CR-306/CR-314) PR 4286 Task 3510	A	IRWD	\$178,879.46						0				
41.7	T-15, T-16, and T-17 Secondary Breakers (CR-185A, CR-185B, and CR-185C) PR 4286 Task 3510	A	IRWD	\$254,941.66						0				
41.8	Cable and Conduit Changes at the Sludge Receiving Area of the Solids Handling Building (CR-203) PR 4286 Task 3510	C	FBB	\$14,338.94						0				
41.9	Concrete Surface Treatment (CR-222) PR 4286 Task 3505	A	IRWD	\$68,714.34						0				
41.1	Heating Water Boiler Control Modifications (CR-246) PR 4286 Task 3510	A	IRWD	\$71,379.00						0				
41.11	SCADA Control Modifications for the Acid Phase Digesters, Methane Digesters, and Sludge Holding Tank (CR-252) PR 4286 Task 3510	A	IRWD	\$50,540.23						0				
41.12	Ambient Gas Analyzer Wiring Modification (CR-264) PR 4286 Task 3510	B	IRWD	\$19,734.51						0				
41.13	Disconnect Switches for Flow Valves in the Solids Handling Building (CR-272) PR 4286 Task 3510	C	IRWD	\$25,550.26						0				
41.14	Centrifuge Pedestal Modifications (CR-301) PR 4286 Task 3505	C	IRWD	\$30,603.14						0				
41.15	SCADA, Instrumentation, and Electrical Modifications (CR-287, CR-294, and CR-322) PR 4286 Task 3510	A	IRWD	\$70,969.66						0				

**MWRP Biosolids and Energy Recovery Facilities
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42	Approved By Board of Directors Approved on May 23, 2016				(\$199,771.09)	\$5,311,577.24	\$5,111,806.15	3.13%	\$168,577,746.15	0	0	0	1,278	10/28/2016
42.1	Value Engineering of Chemical Pump Systems (CR-054) PR 4286 Task 3520	E	FBB		(\$48,549.90)					0				
42.2	Change in Lightning Protection Installation for Egg-Shaped Digesters (CR-121A) PR 4286 Task 3510	E	FBB		(\$97,141.74)					0				
42.3	Deletion of Seal Water Stations and Seal Water Piping (CR-214) PR 4286 Task 3520	A	IRWD		(\$10,557.28)					0				
42.4	Deletion of Low Pressure Switches for Centrate Pumps (CR-257) PR 4286 Task 3510	A	IRWD		(\$1,748.17)					0				
42.5	Centrifuge Seismic Restraint Design Costs (CR-345) PR 4286 Task 1065	A	IRWD		(\$24,064.00)					0				
42.6	Credit for Overtime Inspection Hours From 6/1/2015 to Through 12/31/2015 (CR-089B) PR 4286 Task 1065	F	FBB		(\$17,710.00)					0				
43	Approved by Exe. Director of Engineering and Water Quality Approved on May 31, 2016				\$74,731.69	\$5,111,806.15	\$5,186,537.84	3.17%	\$168,652,477.84	0	0	0	1,278	10/28/2016
43.1	Combustible Gas Detection System (CR-234) PR 21146 (4286) Task 3510	E	FBB		\$18,843.39					0				
43.2	Additional Wires and Cables Between MCC-4102 and PLC-4000 (CR-278) PR 21146 (4286) Task 3510	C	FBB		\$1,775.13					0				
43.3	SCADA Programming Modifications (CR-282) PR 21146 (4286) Task 3510	E	FBB		\$49,679.02					0				
43.4	Change of Waste Gas Burner Feeder Circuit Breaker (CR-344) PR 21146 (4286) Task 3510	B	FBB		\$4,434.15					0				
44	Approved by Exe. Director of Engineering and Water Quality Approved on June 29, 2016				\$74,912.99	\$5,186,537.84	\$5,261,450.83	3.22%	\$168,727,390.83	0	0	0	1,278	10/28/2016
44.1	Electrical and Telephonic Modifications for Elevators for Solids Handling Building and Digester Control Building (CR-037A) PR 4286 Task 3510	C	FBB		\$38,882.06					0				
44.2	Odor Control Recirculation Pump Selector Switch SCADA Modifications (CR-343) PR 4286 Task 3510	A	IRWD		\$9,294.71					0				
44.3	SCADA Valve Matrix Tables Animation Clarification for Milestone 1 (CR-353) PR 4286 Task 3510	A	IRWD		\$9,195.86					0				
44.4	PLC Status Object Update (CR-234) PR 4286 Task 3510	B	FBB		\$4,783.14					0				
44.5	Elevator Safety Beam in the Digester Control Building (CR-302) PR 4286 Task 3505	C	FBB		\$3,830.95					0				
44.6	Masonry Changes to the North Retaining Wall (CR-365) PR 4286 Task 3505	B	IRWD		\$8,926.27					0				

**MWRP Biosolids and Energy Recovery Facilities
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45	Approved by Board of Directors Approved on July 25, 2016/December 20, 2016 45.1 Recovery Plan PR 4286 Task 3510	B	FBB	\$9,250,000.00	\$9,250,000.00	\$5,261,450.83	\$14,511,450.83	8.88%	\$177,977,390.83	368	0	368	1,646	10/31/2017
46	Approved by General Manager Approved on January 27, 2017 46.1 Additional Masonry Anchor in the Solids Handling Building (CR-200) PR 46.2 Additional Auto Dialer (CR-234A) PR 4286 Task 3510 46.3 Grating and Handrail Modifications at Bulk Polymer Storage Platform (CR-300) PR 4286 Task 3505 46.4 SCADA IP Address Update (CR-309) PR 4286 Task 3510 46.5 Masonry Modifications at Solids Handling Building Stairwell (CR-324) PR 4286 Task 3505 46.6 Change in Valve Operator at the Centrate Treatment Facility (CR-329) PR 4286 Task 3520 46.7 Boot Wash Landing Addition (CR-349) PR 4286 Task 3505 46.8 Updating Valve Analog SCADA Template (CR-354) PR 4286 Task 3510 46.9 Additional Light Fixtures and Lamps (CR-355A) PR 4286 Task 3510 46.10 Addition of Rebate Angle in the FOG Unloading Sump Area (CR-363) PR 4286 Task 3505 46.11 MCC-4103 Hot Water Circulation Pump Breakers Change (CR-366) PR 4286 Task 3510 46.12 MCC-4100/4101 Cake Transfer Pump Breakers Change (CR-370) PR 4286 Task 3510 46.13 MCC-4102 Breaker Change (CR-374) PR 4286 Task 3510 46.14 SCADA Programming Modifications During Benchtest No.1 for Areas 1900 and 2000 (CR-376) PR 4286 Task 3510 46.15 Additional Light Fixture Above Door in Digester Control Building Gas Room (CR-399) PR 4286 Task 3510 46.16 Change in Size of Disconnect Switches for Digested Sludge Mixers (CR-408) PR 4286 Task 3510 46.17 Additional Thickening Feed Grinder Control Panel Circuits (CR-438) PR 4286 Task 3510 46.18 Thickness and Glazing Change for Windows (CR-438) PR 4286 Task 3510	C A A A C A C A A A B B B A A B B C	IRWD IRWD IRWD IRWD FBB IRWD FBB IRWD IRWD IRWD IRWD IRWD IRWD IRWD IRWD IRWD FBB IRWD IRWD	\$1,457.22 \$6,081.90 \$5,568.83 \$1,227.96 \$5,939.45 \$4,824.29 \$1,834.60 \$692.72 \$8,508.46 \$763.62 \$2,316.03 \$23,720.61 \$2,316.03 \$24,092.32 \$1,478.19 \$1,290.10 \$1,286.63 \$1,297.80	\$94,696.76	\$14,511,450.83	\$14,606,147.59	8.94%	\$178,072,087.59	0	368	368	1,646	10/31/2017
47	Approved by General Manager Approved on February 28, 2017 47.1 Relocation of Neutralization Tank Drainage Piping PR 4286 Task 3520 47.2 Modifications to Digester Control Building Door and Piping Due to Heating Water Expansion Tank Pad Adjustment (CR-221) PR 4286 Task 3505	B C	FBB FBB	\$2,312.08 \$5,500.74	\$96,414.36	\$14,606,147.59	\$14,702,561.95	8.99%	\$178,168,501.95	0	368	368	1,646	10/31/2017

**MWRP Biosolids and Energy Recovery Facilities
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47.3	PLC-3100 Changes (CR-284) PR 4286 Task 3510	C	FBB	\$1,070.38						0				
47.4	Additional Angle Support to Acid Phase Digester Bridges (CR-298) PR 4286 Task 3505	C	FBB	\$4,986.21						0				
47.5	Additional Potable Water Gate Valves (CR-332) PR 4286 Task 3520	A	IRWD	\$3,892.44						0				
47.6	T-4 Kirk Key Interlock Installation (CR-335) PR 4286 Task 3510	B	IRWD	\$6,924.69						0				
47.7	Solids Handling Building Dumpster Room Channel Frames Modifications (CR-338) PR 4286 Task 3505	C	FBB	\$5,093.87						0				
47.8	PCS Server Configuration Clarification (CR-352) PR 4286 Task 3510	A	IRWD	\$6,824.35						0				
47.9	Additional Anchorage Support for Ledgers of the Digester Control Building Roof (CR-361) PR 4286 Task 3505	C	FBB	\$13,794.95						0				
47.10	Change of MCC-4103 Hot Water Circulation Pump Breakers (CR-366B) PR 4286 Task 3510	A	IRWD	\$1,336.13						0				
47.11	Centrate Treatment Facility Pull Boxes Duct Bank Settlement (CR-383) PR 4286 Task 3510	B	FBB	\$3,300.13						0				
47.12	Modifications to the MCC-4100/4101/4102/4103 (CR-405) PR 4286 Task 3510	B	FBB	\$7,418.52						0				
47.13	Cake Storage Hopper Modifications (CR-421) PR 4286 Task 3510	C	FBB	\$2,250.67						0				
47.14	Removing Installed Lighting in the Solids Handling Building (CR-427) PR 4286 Task 3510	A	IRWD	\$8,947.37						0				
47.15	Electrical Changes for Generator MPC (CR-430) PR 4286 Task 3510	A	IRWD	\$10,950.14						0				
47.16	Electrical Modifications to MCC-4100 and 4103 (CR-431) PR 4286 Task 3510	A	FBB	\$4,500.00						0				
47.17	Occupancy Sensors in the Solids Handling Building Shower Areas (CR-444) PR 4286 Task 3510	C	FBB	\$1,601.36						0				
47.18	Digester Gas Pre-Treatment In-Slab Conduit Size Change (CR-454) PR 4286 Task 3510	C	FBB	\$5,710.33						0				

**MWRP Biosolids and Energy Recovery Facilities
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48	Approved by Board of Directors Approved on March 13, 2017				\$728,237.74	\$14,702,561.95	\$15,430,799.69	9.44%	\$178,896,739.69	0	368	368	1,646	10/31/2017
48.1	Structural Modifications of the Elevator Shafts (CR-037) PR 4286 Task 3505200) PR 4286 Task 3505	B	FBB	\$58,705.90						0				
48.2	SCADA Programming Update of Polymer Feed and Storage System (CR-148A) PR 4286 Task 3510	A	FBB	\$23,685.14						0				
48.3	Stairs and Platform at SHB Load-Out Area (CR-149) PR 4286 Task 3505	C	FBB	\$39,622.65						0				
48.4	Additional Polymer Dilution Flow Meters and Associated Conduits and Cables (CR-159B) PR 4286 Task 3510	A	IRWD	\$38,978.70						0				
48.5	Miscellaneous Andritz Items (CR-205) PR 4286 Task 3520	A	IRWD	\$41,246.71						0				
48.6	RIO-4001 Changes (CR-286) PR 4286 Task 3510	A	IRWD	\$27,889.74						0				
48.7	RIO-3102 Changes (CR-310) PR 4286 Task 3510	A	IRWD	\$18,280.62						0				
48.8	Mini Power Center - Additional Outlet and Data Locations in the SHB (CR-419) PR 4286 Task 3510	A	IRWD	\$13,261.60						0				
48.9	New Lighting in the SHB First Floor Area (CR-427A) PR 4286 Task 3510	A	IRWD	\$102,503.46						0				
48.10	Additional Conduits and Cables for Thermocouples for Several Pumps (CR-424, CR-424A through CR-424F) PR 4286 Task 3510	B	FBB	\$54,982.68						0				
48.11	Additional Wall Panel Framework at the SHB (CR-445) PR 4286 Task 3505	C	FBB	\$128,000.00						0				
48.12	Changes in Uninterruptible Power Supply Units (CR-162/CR-162A) PR 4286 Task 3510	A	IRWD	\$128,052.94						0				
48.13	Addition of Circuit Breaker at Transformer T-14 (CR-474) PR 4286 Task 3510	A	IRWD	\$53,027.60						0				

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49	Approved by Board of Directors Approved on March 13, 2017				(\$47,099.20)	\$15,430,799.69	\$15,383,700.49	9.41%	\$178,849,640.49	0	368	368	1,646	10/31/2017
49.1	Related Mechanical Piping Modifications Due to Change in Chemical Pumps in CCO No. 42 (CR-054A) PR 4286 Task 3520	E	FBB		(\$23,897.73)					0				
49.2	Changing the Solids Handling Building Roofing from EPDM to PVC (CR-255) PR 4286 Task 3505	E	FBB		(\$9,000.00)					0				
49.3	Net Reduction of Scope of Work in CR-353 – SCADA Valve Matrix Tables Animation Clarifications (CR-353B/353C) PR 4286 Task 3510	A	IRWD		(\$4,429.09)					0				
49.4	Change in Starters for MCC-4100/4101 Cake Transfer Pump Breakers (CR-370A) PR 4286 Task 3510	A	IRWD		(\$4,047.43)					0				
49.5	Deletion of Insulation for the Solids Handling Building Foundation (CR-393) PR 4286 Task 3505	A	IRWD		(\$5,724.95)					0				
50	Approved by Executive Director of Engineering & Water Quality Approved on March 31, 2017				\$72,150.89	\$15,383,700.49	\$15,455,851.38	9.46%	\$178,921,791.38	0	368	368	1,646	10/31/2017
50.1	Electrical Modifications to FOG Local Control Panel 70-LCP-0710 (CR-304) PR 4286 Task 5.30	A	IRWD		\$6,614.77					0				
50.2	Condensate Modifications at Digester Gas Pre-Treatment Area (CR-312) PR 4286 Task 5.31	C	FBB		\$9,826.09					0				
50.3	Installation of Lindapters Instead of Eye Bolts (CR-413) PR 4286 Task 5.29	A	FBB		\$13,346.01					0				
50.4	T-5 Connection to Biosolids Switch-14 (CR-480) PR 4286 Task 5.30	A	IRWD		\$35,170.26					0				
50.5	Polymer Feeder Blender Skids Flow Element Grounding Conductor (CR-482) PR 4286 Task 5.30	C	IRWD		\$7,193.76					0				
51	Approved by Executive Director of Engineering & Water Quality Approved on March 31, 2017				(\$126,390.00)	\$15,455,851.38	\$15,329,461.38	9.38%	\$178,795,401.38	0	368	368	1,646	10/31/2017
51.1	Credit for Overtime Inspection Hours From 1/1/2016 to Through 12/31/2016 (CR-089C) PR 4286 Task 4.0	F	IRWD		(\$97,570.00)					0				
51.2	Credit for Overtime Inspection Hours From 1/1/2017 to Through 03/31/2017 (CR-089D) PR 4286 Task 4.0	E	IRWD		(\$28,820.00)					0				

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52	Approved by General Manager Approved on April 28, 2017				\$98,342.16	\$15,329,461.38	\$15,427,803.54	9.44%	\$178,893,743.54	0	368	368	1,646	10/31/2017
	52.1 Removal of Unsuitable Alluvium (CR-146H) PR 4286 Task 5.29	B	FBB	\$3,564.32						0				
	52.2 Polymer Dilution Water Flowmeters (CR-159A) PR 4286 Task 5.31	A	IRWD	\$14,090.39						0				
	52.3 Aluminum Handrail and Guardrail Modifications at Liquid Chemical and Polymer Areas (CR-171) PR 4286 Task 5.30	A	IRWD	\$13,765.20						0				
	52.4 Modifications Due to Solids Handling Building Electrical Room Equipment Clearance Issues (CR-196) PR 4286 Task 5.30	C	FBB	\$9,382.01						0				
	52.5 Data and Telephone Outlets in Solids Handling Building (CR-261) PR 4286 Task 5.30	A	IRWD	\$27,620.21						0				
	52.6 HVAC Duct Modifications in Dewatering Feed Pump Station (CR-268) PR 4286 Task 5.31	C	FBB	\$16,023.50						0				
	52.7 Coating of 8 Roll-up doors (CR-358) PR 4286 Task 5.29	A	IRWD	\$5,710.32						0				
	52.8 Upsizing Wire Size of Dewatering Feed Pump Station Main Breaker Light Panel LP-3501 (CR-390) PR 4286 Task 5.30	A	IRWD	\$1,449.75						0				
	52.9 Modifications to the Roofs of the Solids Handling Building and Digester Control Building (CR-528) PR 4286 Task 5.29	A	IRWD	\$6,736.46						0				
53	Exe. Director of Water Quality and Engineering Approved on June 5, 2017				\$42,281.96	\$15,427,803.54	\$15,470,085.50	9.46%	\$178,936,025.50	0	368	368	1,646	10/31/2017
	53.1 Modifications to Regenerative Thermal Oxidizer (RTO) Drainage and Utility Water Piping (CR-267) PR 4286 Task 5.31	C	IRWD	\$33,814.80						0				
	53.2 Modifications to Liquid Chemical Feed Control Panel Wiring (CR-396) per RFI-1602 PR 4286 Task 5.30	C	FBB	\$8,467.16						0				
54	Approved by General Manager Approved on June 19, 2017				\$44,210.51	\$15,470,085.50	\$15,514,296.01	9.49%	\$178,980,236.01	0	368	368	1,646	10/31/2017
	54.1 Modifications to Thickening and Dewtering Platforms (CR-195) PR 4286 Task 5.29	C	FBB	\$44,210.51						0				
55	Approved by General Manager Approved on July 3, 2017				\$94,352.43	\$15,514,296.01	\$15,608,648.44	9.55%	\$179,074,588.44	0	368	368	1,646	10/31/2017
	55.1 Additional Pipe Supports of 54-Inch Fiberglass Reinforced Air Duct (CR-106A) PR 4286 Task 5.29	C	FBB	\$14,211.18						0				
	55.2 Natural Gas Step Down Manifolds and Gas Transition Piping (CR-146G) PR	B	IRWD	\$20,489.32						0				
	55.3 Modifications to the West End Stair Landing of the Solids Handling Building (CR-315) PR 4286 Task 5.29	B	IRWD	\$5,622.11						0				
	55.4 Regenerative Thermal Oxidizer (RTO) Pad Modifications (CR-400) PR 4286 Task 5.29	C	FBB	\$8,471.16						0				
	55.5 Addition of Thin Client at the Dryer Facility (CR-485) PR 4286 Task 5.30	A	IRWD	\$36,874.10						0				
	55.6 Change in Size to 2 Check Valves in the Digester Control Building (CR-514) PR 4286 Task 5.31	C	FBB	\$8,684.56						0				
56	Approved by Board				\$201,744.33	\$15,608,648.44	\$15,810,392.77	9.67%	\$179,276,332.77	0	368	368	1,646	10/31/2017

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

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

				Contract Amount						Contract Days				Original Completion Date:
				Original Contract Amount: \$163,465,940.00						Original Days: 1,278				10/28/2016
Change Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
	Approved on July 24, 2017													
56.1	Addition Of Stairs and Platform to RTO (CR-266) PR 4286 Task 5.29	A	IRWD	\$101,744.33						0				
56.2	Microturbine CLC (ESC Capstone) per RFI 1141 (CR-277) PR 4286 Task	B	FBB	\$100,000.00						0				
57	Approved by General Manager Approval on August 5, 2017				\$98,886.90	\$15,810,392.77	\$15,909,279.67	9.73%	\$179,375,219.67	0	368	368	1,646	10/31/2017
57.1	Additional Support at Digester Control Building (CR-342) PR 04286 Task 5.29	C	IRWD	\$2,522.47						0				
57.2	Pipe and Duct Hanger Modifications (CR-362) PR 04286 Task 5.29	C	IRWD	\$4,083.12						0				
57.3	Increase Wire Size of Main Breaker PP-3501 (CR-418) PR 04286 Task 5.30	C	FBB	\$696.66						0				
57.4	Roof Vent at DCB Elevator/Stair Tower (CR-437) PR 04286 Task 5.29	B	IRWD	\$8,563.72						0				
57.5	T-14 Fixed Type Manual Operator per Submittal 16443-0016A (CR-540) PR 04286 Task 5.31	C	IRWD	\$1,945.62						0				
57.6	Area Classification at Methane Digesters to meet NFPA Table 6.2(a) - Plug Valves Limit Switches (CR-557) PR 04286 Task 5.30	C	FBB	\$64,195.15						0				
57.7	Area Classification at Methane Digesters to meet NFPA Table 6.2(a) - Sump Pump Cable Retrofit PR 04286 Task 5.30	C	FBB	\$16,880.16						0				

**MWRP Biosolids and Energy Recovery Facilities
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58	Approved by Board of Directors Approval on August 28, 2017				\$182,938.94	\$15,909,279.67	\$16,092,218.61	9.84%	\$179,558,158.61	0	368	368	1,646	10/31/2017
	58.1 Concrete Cap over Shallow Pipe Crossings (CR-348) PR 04286 Task 5.31	B	FBB	\$7,923.00						0				
	58.2 Additional Conduit and Wiring for Sludge Screen Moisture Sensors (CR-381) PR 04286 Task 5.30	C	FBB	\$8,355.32						0				
	58.3 SCADA Programming Modifications (CR-433/476/546/547/551) PR 04286 Task 5.30	A	IRWD	\$15,758.38						0				
	58.4 Polymer Storage Power Panels Wire and Breaker Modifications (CR-456) PR 04286 Task 5.30	C	FBB	\$24,238.65						0				
	58.5 Odor Control Starter Modifications (CR-466) PR 04286 Task 5.30	B	FBB	\$41,436.09						0				
	58.6 Odor Control Fan Remote Temperature Device Revisions (CR-522) PR 04286 Task 5.30	A	IRWD	\$52,484.50						0				
	58.7 Re-location of Digester Control Building Gas Room Local Control Panels (CR-534) PR 04286 Task 5.30	A	FBB	\$32,743.00						0				
59	Approved by Exe. Director of Water Quality and Engineering Approval on September 6, 2017				\$98,988.68	\$16,092,218.61	\$16,191,207.29	9.90%	\$179,657,147.29	0	368	368	1,646	10/31/2017
	59.1 Modifications to Building 101 (CR-212) PR 04286 Task 5.30	E	FBB	\$26,500.00										
	59.2 Change in Conduit Size in Area 20 (CR-292) PR 04286 Task 5.10	C	FBB	\$1,946.70						0				
	59.3 Centrifuge Discharge Cake Conveyors Schematic Modifications (CR-422) PR 04286 Task 5.10	C	FBB	\$6,410.04						0				
	59.4 Power Monitor Programming Modifications (CR-539) PR 04286 Task 5.10	A	IRWD	\$2,595.60						0				
	59.5 SCADA Programming Modifications (CR-547A) PR 04286 Task 5.10	A	IRWD	\$1,574.86						0				
	59.6 Change in Area Classification at Methane Digesters to meet NFPA Standards - MOVs (CR-557B) PR 04286 Task 5.10	C	FBB	\$54,736.73						0				
	59.7 FOG Heating Disconnect Switch Relocation (CR-559) PR 04286 Task 5.10	C	FBB	\$5,224.75						0				
60	Approved by Exe. Director of Water Quality and Engineering Approval on September 5, 2017				(\$34,540.00)	\$16,191,207.29	\$16,156,667.29	9.88%	\$179,622,607.29	0	368	368	1,646	10/31/2017
	60.1 Credit for Overtime Inspection Hours From 4/1/2017 Through 6/30/2017 (CR-089E) PR 04286 Task 4.0	F	FBB	(\$34,540.00)						0				

**MWRP Biosolids and Energy Recovery Facilities
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61	Approved by Exe. Director of Water Quality and Engineering Approved on September 6, 2017 61.1 Credit for Bulk Polymer Storage Changes per RFI-0863 and Submittal 15140-013B (CR-168) PR 04286 Task 5.16	E	FBB		(\$1,752.39)	\$16,156,667.29	\$16,154,914.90	9.88%	\$179,620,854.90	0	368	368	1,646	10/31/2017
62	Approved by Board of Directors Approved on October 9, 2017 62.1 Fats, Oil, and Grease (FOG) Modifications (CR-223A) PR 04286 Task 5.30 62.2 Density Meter Conduit and Cabling Modifications (CR-326) PR 04286 Task 5.30 62.3 Fiber Optic Modifications (CR-356) PR 04286 Task 5.30 62.4 Sludge Screen Pneumatic Control Panel Conduit and Cabling (CR-380) PR 04286 Task 5.30 62.5 Additional Circuits for Control of the Thickening Centrifuges (CR-386) PR 04286 Task 5.30 62.6 Upsize of Power Panel PP-8001 Circuit Breaker (CR-414) PR 04286 Task 5.30 62.7 Electrical Power Feeders to Electric Water Heater (CR-426) PR 04286 Task 5.30 62.8 Chemical Sump Pump Control Panel Space Heater Wiring Modifications (CR-461) PR 04286 Task 5.30 62.9 Relocate Electrical Feeders to Generator Bus (CR-462) PR 04286 Task 5.30 62.10 Electrical and Instrumentation Related Components for the Installation of Thin Client at Dryer Facility (CR-485A) PR 04286 Task 5.30 62.11 Polymer Room Eye Wash Station Flow Switches (CR-535) PR 04286 Task 5.30 62.12 Chemical Storage and Feed Modifications (CR-563) PR 04286 Task 5.30 62.13 PLC Redundancy Hot Standby Status Register (CR-568) PR 04286 Task 5.30	A	IRWD	\$52,174.90	\$708,162.72	\$16,154,914.90	\$16,863,077.62	10.32%	\$180,329,017.62	0	368	368	1,646	10/31/2017
		A	IRWD	\$52,518.11						0				
		A	IRWD	\$20,607.14						0				
		C	IRWD	\$8,859.95						0				
		C	FBB	\$376,674.08						0				
		A	IRWD	\$50,135.26						0				
		B	FBB	\$16,551.27						0				
		A	IRWD	\$12,822.26						0				
		A	IRWD	\$22,785.74						0				
		A	IRWD	\$49,908.43						0				
		A	IRWD	\$24,567.89						0				
		A	IRWD	\$13,055.18						0				
		A	IRWD	\$7,502.51						0				

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

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Change Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
63	Approved by General Manager Approved on October 2, 2017				\$91,766.09	\$16,863,077.62	\$16,954,843.71	10.37%	\$180,420,783.71	0	368	368	1,646	10/31/2017
	63.1 Electrical Modifications to RIO-2001 (CR-269) PR 04286 Task 5.30	C	IRWD	\$30,563.48						0				
	63.2 Modifications to RIO-4002 (CR-285) PR 04286 Task 5.30	C	FBB	\$14,563.39						0				
	63.3 Cap for 12-Inch Storm Drain (CR-351) PR 04286 Task 5.16	B	FBB	\$2,394.54						0				
	63.4 Access Hatch for Regenerative Thermal Oxidizer Pipe Chase (CR-473) PR 04286 Task 5.31	C	FBB	\$3,958.91						0				
	63.5 Electrical Upgrades to RIO-4002 (CR-447) PR 04286 Task 5.30	A	FBB	\$40,285.77						0				
64	Approved by Board of Directors Approved on October 23, 2017				\$231,100.22	\$16,954,843.71	\$17,185,943.93	10.51%	\$180,651,883.93	0	368	368	1,646	10/31/2017
	64.1 Modifications to Centrate Treatment Facility Stairs (CR-379) PR 04286 Task 5.29	B	FBB	\$9,758.16						0				
	64.2 Modifications to Ductwork in Solids Handling Building (CR-401) PR 04286 Task 5.31	C	FBB	\$9,537.05						0				
	64.3 Electrical Conduits and Wires for Additional Bridge Breakers for Cake Receiving Pumps (CR-416) PR 04286 Task 5.30	B	FBB	\$21,678.83						0				
	64.4 Handrail Modifications at the Methane Digesters (CR-472) PR 04286 Task 5.29	B	FBB	\$22,154.53						0				
	64.5 Electrical and Instrumentation Related Components for the Installation of Thin Client at Dryer Facility (CR-485B) PR 04286 Task 5.30	A	IRWD	\$53,090.84						0				
	64.6 Electrical Modifications at the Motor Control Centers for the Acid Phase Sludge Heating Recirculation Pumps (CR-517) PR 04286 Task 5.30	A	IRWD	\$47,611.11						0				
	64.7 FOG Receiving Pumps Thermocouple and Thermostat Wiring (CR-525) PR 04286 Task 5.30	C	FBB	\$37,826.58						0				
	64.8 SCADA Programming Changes (CR-537/570/573/573A) PR 04286 Task 5.30	A	IRWD	\$23,694.13						0				
	64.9 Change of Limit Switches for Buried Service (CR-560) PR 04286 Task 5.30	C	FBB	\$5,748.99						0				

**MWRP Biosolids and Energy Recovery Facilities
PR 21146 (4286)
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65	Approved by Board of Directors Approved on October 23, 2017				\$149,591.14	\$17,185,943.93	\$17,335,535.07	10.60%	\$180,801,475.07	0	368	368	1,646	10/31/2017
65.1	Additional Conduits and Wires for the Engine Generator, Switchgear-16, and Switchgear-16 Programmable Logic Controller (CR-204) PR 04286 Task 5.30	C	FBB	\$100,000.00						0				
65.2	Modifications to Spirac Conveyor in the Solids Handling Building (CR-409) PR 04286 Task 5.31	B	FBB	\$13,641.00						0				
65.3	Additional Metal Bridge Walkway Structural Support Angles (CR-420) PR 04286 Task 5.29	B	FBB	\$35,950.14						0				
66	Approved by General Manager Approved on November 30, 2017				\$98,201.20	\$17,335,535.07	\$17,433,736.27	10.67%	\$180,899,676.27	0	368	368	1,646	10/31/2017
66.1	SCADA Programming Modifications and Updates (CR-247A/CR-469/CR-485C/CR-571/CR-575A/CR-579/CR-580/CR-585) PR 04286 Task 5.30	A	IRWD	\$61,734.78						0				
66.2	Installation of Sump Pump Floats (CR-452) PR 04286 Task 5.31	A	IRWD	\$17,228.56						0				
66.3	Electrical Work Associated with Air Handling/Heating Units, Recycle Bin Feed Conveyor, and Recycle Bucket Elevator in the Solids Handling Building (CR-457/CR-529) PR 04286 Task 5.30	B	IRWD	\$11,003.85						0				
66.4	Additional Wires and Conduits for FOG Receiving Valves (CR-565) PR 04286 Task 5.30	B	FBB	\$6,368.21						0				
66.5	Additional Door Cover Plates for MCC-4100 and MCC-4101	B	IRWD	\$1,865.80						0				
67	Approved by Exe. Dir of Engineering and Water Quality Approved on November 30, 2017				(\$53,626.83)	\$17,433,736.27	\$17,380,109.44	10.63%	\$180,846,049.44	0	368	368	1,646	10/31/2017
67.1	Credit for Overtime Inspection Hours from 07/1/2017 to 09/30/2017 (CR-089F) PR 04286 Task 4.0	F	FBB	(\$19,140.00)						0				
67.2	Credit for Additional Conduits and Wires for the Engine Generator, Switchgear-16, and Switchgear-16 Programmable Logic Controller (CR-204A) PR 04286 Task 5.30	E	FBB	(\$13,591.83)						0				
67.3	Deletion of Pavement Prime Coat (CR-331D) PR 04286 Task 5.29	A	IRWD	(\$20,895.00)						0				

**MWRP Biosolids and Energy Recovery Facilities
PR 21146 (4286)
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68	Approved by Board of Directors Approved on December 11, 2017				\$569,553.19	\$17,380,109.44	\$17,949,662.63	10.98%	\$181,415,602.63	0	368	368	1,646	10/31/2017
68.1	Fats, Oil, and Grease (FOG) Modifications (CR-223) PR 04286 Task 5.30	A	IRWD	\$83,648.47						0				
68.2	Additional Electrical Outlets and Circuits in the Solids Handling Building (CR-453) PR 04286 Task 5.30	A	IRWD	\$44,054.83						0				
68.3	Control Panel Modifications in the Methane Digester Complex (CR-545) PR 04286 Task 5.30	C	IRWD	\$55,414.03						0				
68.4	Additional Electrical, Instrumentation, and Controls for the Heat Dryer System (CR-270 and CR-471A through CR-471G, CR-496, and CR-555) PR 04286 Task 5.30	B	FBB	\$386,435.86						0				
69	Approved by General Manager Approved on December 20, 2017				\$90,846.69	\$17,949,662.63	\$18,040,509.32	11.04%	\$181,506,449.32	0	368	368	1,646	10/31/2017
69.1	Power Supply Failure Alarms for Acid Gas Boosters (CR-477) PR 04286 Task 5.30	A	IRWD	\$10,965.90						0				
69.2	Addition of Waste Gas Burner Instrument Air Compressor System (Electrical) (CR-484A) PR 04286 Task 5.30	C	IRWD	\$8,046.52						0				
69.3	Circuit Breaker for MOC-2034 (CR-541) PR 04286 Task 5.30	B	IRWD	\$2,389.56						0				
69.4	Change in Limit Switches Located in the Methane Digester Complex Due Electrical Classification Change (CR-557D) PR 04286 Task 5.30	C	IRWD	\$37,744.12						0				
69.5	Change in Limit Switches Located in the Methane Digester Complex Due Electrical Classification Change (CR-582) PR 04286 Task 5.30	C	IRWD	\$16,228.03						0				
69.6	SCADA Programming Changes – Totalizers (CR-590) PR 04286 Task 5.30	A	IRWD	\$7,830.90						0				
69.7	Control Panel Modifications in the Methane Digester Complex (CR-592) PR 04286 Task 5.30	A	IRWD	\$7,641.66						0				

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70	Approved by Exe. Dir of Engineering and Water Quality Approved on January 23, 2018				\$73,972.77	\$18,040,509.32	\$18,114,482.09	11.08%	\$181,580,422.09	0	368	368	1,646	10/31/2017
70.1	Addition of Limit Switches on Gas Dryer Heat Exchanger (CR-303) PR 04286 Task 5.30	A	IRWD	\$17,367.32						0				
70.2	Change of Electrical Classification of Valve Limit Switches at Acid Phase Digester Complex (CR-415) PR 04286 Task 5.30	C	IRWD	\$24,018.04						0				
70.3	Power Source to the Solids Handling Building Bridge Cranes (CR-574) PR 04286 Task 5.30	C	IRWD	\$27,479.58						0				
70.4	Investigation of Street Lights, South side of Biosolids Site (CR-613) PR 04286 Task 5.30	A	IRWD	\$1,204.20						0				
70.5	Additional Switches in the Solids Handling Building (CR-625) PR 04286 Task 5.30	A	IRWD	\$3,903.63						0				
71	Approved by Exe. Dir of Engineering and Water Quality Approved on January 31, 2018				(\$12,210.00)	\$18,114,482.09	\$18,102,272.09	11.07%	\$181,568,212.09	0	368	368	1,646	10/31/2017
71.1	Credit for Overtime Inspection Hours from 10/1/2017 to 12/31/2017 (CR-089G) PR 04286 Task 4.0	F	IRWD	(\$12,210.00)						0				
72	Approved by General Manager Approved on January 25, 2018				\$25,256.29	\$18,102,272.09	\$18,127,528.38	11.09%	\$181,593,468.38	0	368	368	1,646	10/31/2017
72.1	Installation of Breakers for Power Panel PP-8001 (CR-414A) PR 04286 Task 5.30	A	IRWD	\$25,256.29						0				
73	Approved by Board of Directors Approved on March 12, 2018				\$150,755.29	\$18,127,528.38	\$18,278,283.67	11.18%	\$181,744,223.67	0	368	368	1,646	10/31/2017
73.1	Additional Circuits for Control of the Dewatering Centrifuges (CR-386B) PR 04286 Task 5.30	B	FBB	\$150,755.29						0				

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74	Approved by General Manager Approved on February 22, 2018				\$99,467.47	\$18,278,283.67	\$18,377,751.14	11.24%	\$181,843,691.14	0	368	368	1,646	10/31/2017
74.1	Access Platform to Heat Dryer Acid Scrubber (CR-485D) PR 04286 Task 5.30	A	IRWD	\$14,637.02						0				
74.2	Modifications to the FRP Ducting in the Solids Handling Building (CR-491) PR 04286 Task 5.31	A	IRWD	\$20,171.39						0				
74.3	Power to Air Compressors and Pre-Action Panels of the Fire Sprinkler System (CR-526) PR 04286 Task 5.30	B	IRWD	\$24,442.16						0				
74.4	Electrical and Instrumentation Revisions to the FOG System (CR-578) PR 04286 Task 5.30	A	IRWD	\$13,035.52						0				
74.5	Addition of Centrate Air Purge System (CR-581) PR 04286 Task 5.30	A	IRWD	\$17,777.95						0				
74.6	Addition of Flame Checks on Foam Separator Digested Sludge Line (CR-587) PR 04286 Task 5.3	A	IRWD	\$3,038.27						0				
74.7	Modifications to 10-Ton Crane Stops (CR-589) PR 04286 Task 5.31	C	FBB	\$6,365.16						0				

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Change Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
75	Approved by General Manager Approved on March 2, 2018				\$98,698.78	\$18,377,751.14	\$18,476,449.92	11.30%	\$181,942,389.92	0	368	368	1,646	10/31/2017
75.1	Electrical Modifications to the Acid Phase Digester and Methane Phase Digester System (CR-252C) PR 04286 Task 5.30	A	IRWD	\$31,492.38						0				
75.2	Modifications to the Odor Control Panels (CR-382) PR 04286 Task 5.30	A	IRWD	\$12,726.70						0				
75.3	Additional Lock-Out Switch for the Bridge Breaker (CR-384A) PR 04286 Task 5.30	B	IRWD	\$14,276.72						0				
75.4	Additional On/Off Switch for Duct Fans (CR-384B) PR 04286 Task 5.30	A	IRWD	\$12,100.47						0				
75.5	Aeration Blower MCC Modifications (CR-481) PR 04286 Task 5.30	C	IRWD	\$14,441.86						0				
75.6	Addition of Level Switches and Solenoid Valves for Gas/Foam Separator Tanks (CR-566) PR 04286 Task 5.30	B	IRWD	\$7,568.99						0				
75.7	SCADA Template Update (CR-622) PR 04286 Task 5.30	A	IRWD	\$2,775.05						0				
75.8	Additional Lights in the Shower Stalls of the Solids Handling Building (CR-628) PR 04286 Task 5.30	C	FBB	\$1,639.80						0				
75.9	Relocation of Flow Switch in Sample Analysis Room (CR-637) PR 04286 Task 5.30	A	IRWD	\$1,676.81						0				
76	Approved by Board of Directors Approved on March 26, 2018				\$150,690.04	\$18,476,449.92	\$18,627,139.96	11.40%	\$182,093,079.96	0	368	368	1,646	10/31/2017
76.1	Power Feed to Microturbine CLCs (CR-289) PR 04286 Task 5.30	B	FBB	\$49,534.35						0				
76.2	Upsizing of Electrical Cables related to the Heat Drying System (CR-510) PR 04286 Task 5.30	B	FBB	\$4,670.94						0				
76.3	Additional Cables to MCC-1 (CR-538) PR 04286 Task 5.30	B	FBB	\$5,679.24						0				
76.4	Electrical Code Area Classification Change in the Digester Control Building Gas Room (CR-582A) PR 04286 Task 5.30	C	IRWD	\$8,804.31						0				
76.5	Addition of Water Source for the Foam Separator (CR-583) PR 04286 Task 5.31	C	FBB	\$8,418.23						0				
76.6	SCADA Modifications on Solids Handling Polymer System (CR-620) PR 04286 Task 5.30	A	IRWD	\$7,761.00						0				
76.7	3-Way Valve Graphical Modifications to SCADA (CR-621) PR 04286 Task 5.30	A	IRWD	\$22,540.18						0				
76.8	SCADA Modifications on FOG System (CR-623) PR 04286 Task 5.30	A	IRWD	\$7,970.58						0				
76.9	SCADA Modifications on the Digested Tank Level (CR-626) PR 04286 Task 5.30	A	IRWD	\$8,898.86						0				
76.10	Solids Handling Building Stair Modifications (CR-634) PR 04286 Task 5.29	C	FBB	\$26,412.35						0				

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

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

				Contract Amount						Contract Days				Original Completion Date:
				Original Contract Amount: \$163,465,940.00						Original Days: 1,278				10/28/2016
Change Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
77	Approved by General Manager Approved on April 30, 2018				\$94,371.12	\$18,627,139.96	\$18,721,511.08	11.45%	\$182,187,451.08	0	368	368	1,646	10/31/2017
77.1	Modifications of Notching Shear Lugs - Solids Handling Building (CR-299A) PR 04286 Task 5.29	C	FBB	\$1,269.23						0				
77.2	Cake Storage Hopper Conveyor Control Changes (CR-384C) PR 04286 Task 5.30	A	IRWD	\$30,869.71						0				
77.3	Electrical Testing for Manual Transfer Switchgear SWGR-14 (CR-474A) PR 04286 Task 5.30	C	FBB	\$5,891.73						0				
77.4	Additional HVAC Fan Coil Power Circuits (CR-593) PR 04286 Task 5.30	B	FBB	\$16,053.47						0				
77.5	Modifications to Digester Control Building Roof Guardrail and Bridge Steps (CR-617) PR 04286 Task 5.29	B	IRWD	\$10,147.48						0				
77.6	Electrical Modifications to the Condensing Unit and Heat Pumps in the Solids Handling Building (CR-635) PR 04286 Task 5.30	A	FBB	\$9,551.13						0				
77.7	SCADA Control Logic Change in the Acid Phase Digester Area (CR-668) PR 04286 Task 5.30	A	IRWD	\$9,741.22						0				
77.8	SCADA Control Logic Change in the Polymer Thickening Tank Area (CR-669) PR 04286 Task 5.30	A	IRWD	\$8,144.54						0				
77.9	Hot Water Circuit Breaker (CR-366A) PR 04286 Task 5.30	A	IRWD	\$2,702.61						0				
78	Approved by Board of Directors Approved on April 26, 2018				\$344,006.55	\$18,721,511.08	\$19,065,517.63	11.66%	\$182,531,457.63	0	368	368	1,646	10/31/2017
78.1	Operator Interface Terminal (OIT) Indusoft Licensing Cost (CR-244) PR 04286 Task 5.30	A	IRWD	\$4,618.13						0				
78.2	Retaining Wall Modifications at Solids Handling Building (CR-331E) PR 04286 Task 5.29	C	IRWD	\$26,508.00						0				
78.3	Andritz Air Compressor Equipment Pad Modifications (CR-550) PR 04286 Task 5.31	C	FBB	\$6,729.00						0				
78.4	Waste Activated Sludge (WAS), Digested Sludge (DS), and Primary Sludge (PS) Piping Modifications (CR-594) PR 04286 Task 5.31	A	IRWD	\$28,967.68						0				
78.5	Modifications to MWRP Biosolids Hardscape (CR-331K) PR 04286 Task 5.29	A	IRWD	\$277,183.74						0				

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

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

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				Original Contract Amount: \$163,465,940.00						Original Days: 1,278				10/28/2016
Change Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
79	Approved by General Manager Approved on May 17, 2018				\$89,123.41	\$19,065,517.63	\$19,154,641.04	11.72%	\$182,620,581.04	0	368	368	1,646	10/31/2017
79.1	Addition of High Temperature Switches for the Primary Sludge/Waste Activated Sludge Wet Well Mixers (CR-377A) PR 04286 Task 5.30	C	FBB	\$12,145.12						0				
79.2	Utility Line Modifications in the Solids Handling Building (CR-521) PR 04286 Task 5.31	A	IRWD	\$2,163.21						0				
79.3	SCADA Programming Changes in the Methane Digester Area (CR-542) PR 04286 Task 5.30	A	IRWD	\$7,191.02						0				
79.4	MCC-4100 Bridge Breaker Modifications in the Bulk Polymer Storage Area (CR-562) PR 04286 Task 5.30	B	IRWD	\$9,905.77						0				
79.5	Electrical Modifications of Exhaust Air Unit in the Solids Handling Building (CR-618) PR 04286 Task 5.30	B	FBB	\$6,391.05						0				
79.6	SCADA Programming Changes on the Biosolids Conveyor Distribution System (CR-630) PR 04286 Task 5.30	A	IRWD	\$7,226.35						0				
79.7	Electrical Modifications to the Dewatering Conveyors in the Solids Handling Building (CR-672) PR 04286 Task 5.30	B	FBB	\$21,239.15						0				
79.8	Additional Space Heater for Regenerative Thermal Oxidizer Draft Fan (CR-675) PR 04286 Task 5.30	A	FBB	\$9,351.07						0				
79.9	SCADA Programming Update on the Acid Phase Sludge Transfer Pumps (CR-689) PR 04286 Task 5.30	A	IRWD	\$13,510.67						0				

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

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

				Contract Amount						Contract Days				Original Completion Date:
				Original Contract Amount: \$163,465,940.00						Original Days: 1,278				10/28/2016
Change Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
80	Approved by Board of Directors Approved on May 29, 2018				\$313,076.14	\$19,154,641.04	\$19,467,717.18	11.91%	\$182,933,657.18	0	368	368	1,646	10/31/2017
80.1	Modifications to MCC-4100, MCC-4101 and MCC-4102 (CR-384) PR 04286 Task 5.30	C	FBB	\$36,158.66						0				
80.2	Modifications to MCC-4102 and MCC-4103 (CR-384D) PR 04286 Task 5.30	C	FBB	\$63,388.51						0				
80.3	Separate Air Compressor System Electrical Panel for Waste Gas Burner (CR-484B) PR 04286 Task 5.3	B	FBB	\$50,723.04						0				
80.4	Additional Power Monitoring Equipment for Self-Generation Incentive Program (CR-577) PR 04286 Task 5.30	A	IRWD	\$34,887.16						0				
80.5	Electrical Modifications for the Gas Compressor Detector and Enclosure Fire Alarm Panel (CR-629) PR 04286 Task 5.30	A	IRWD	\$13,215.42						0				
80.6	Additional Power Circuits for the Solids Handling Building Roll-Up Doors (CR-631) PR 04286 Task 5.30	C	IRWD	\$24,446.58						0				
80.7	Modifications to Digested Sludge Line (CR-648) PR 04286 Task 5.31	C	FBB	\$17,023.42						0				
80.8	Relocation of Local Control Panel in the Solids Handling Building (CR-676) PR 04286 Task 5.30	C	FBB	\$34,619.35						0				
80.9	Additional Manual Valves and Components for Heat Dryer System (CR-683) PR 04286 Task 5.30	C	FBB	\$38,614.00						0				
81	Approved by Executive Director of Engineering and Water Quality Approved on June 1, 2018				\$2,566.55	\$19,467,717.18	\$19,470,283.73	11.91%	\$182,936,223.73	0	368	368	1,646	10/31/2017
81.1	Modifications to Duct and Cable Tray Support in Dryer Room (CR-125) PR 04286 Task 5.30	A	FBB	\$2,566.55						0				
82	Approved by Executive Director of Engineering and Water Quality Approved on June 1, 2018				(\$75,950.64)	\$19,470,283.73	\$19,394,333.09	11.86%	\$182,860,273.09	0	368	368	1,646	10/31/2017
82.1	Credit for Overtime Inspection Hours from 01/01/2018 to 3/31/2018 (CR-089H) PR 04286 Task 4.0	F	FBB	(\$3,740.00)						0				
82.2	Odor Control Fan Platform Modifications (CR-334) PR 04286 Task 5.31	A	IRWD	(\$8,498.82)						0				
82.3	Chemical Piping Modifications Between Chemical Storage and Odor Control Areas (CR-387) PR 04286 Task 5.31	A	IRWD	(\$20,197.71)						0				
82.4	Ferric Chloride Piping Modifications in the Thickened Sludge Area (CR-388) PR 04286 Task 5.31	A	IRWD	(\$26,067.00)						0				
82.5	Ferric Chloride Piping Re-Route South of the Solids Handling Building (CR-423) PR 04286 Task 5.31	A	IRWD	(\$17,447.11)						0				

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

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				Original Contract Amount: \$163,465,940.00						Original Days: 1,278				10/28/2016
Change Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
83	Approved by General Manager Approved on June 21, 2018				\$81,901.09	\$19,394,333.09	\$19,476,234.18	11.91%	\$182,942,174.18	0	368	368	1,646	10/31/2017
83.1	Andritz Pellet Silo Structure Conflict (CR-554) PR 04286 Task 5.29	C	FBB	\$4,963.98						0				
83.2	Additional Power Circuits for the Solids Handling Building Roll-Up Doors (CR-631A) PR 04286 Task 5.30	C	FBB	\$32,998.95						0				
83.3	SCADA Programming Update – Gas Booster System (CR-670) PR 04286 Task 5.30	A	IRWD	\$14,981.13						0				
83.4	Electrical Receptacles for Deionized Water System (CR-692A) PR 04286 Task 5.30	A	IRWD	\$4,546.34						0				
83.5	Cable Work Related in MCC-1 to Harmonic Filters (CR-694) PR 04286 Task 5.30	A	IRWD	\$6,932.07						0				
83.6	SCADA Update to Sludge Heat Transfer System Valve Matrix (CR-699) PR 04286 Task 5.30	A	IRWD	\$17,478.62						0				
84	Approved by Board of Directors Approved on June 25, 2018				\$105,492.90	\$19,476,234.18	\$19,581,727.08	11.98%	\$183,047,667.08	0	368	368	1,646	10/31/2017
84.1	Electrical Modifications Due to the Addition of Grease Pumps (CR-619) PR 04286 Task 5.30	B	FBB	\$105,492.90						0				
85	Approved by Executive Director of Engineering and Water Quality Approved on July 30, 2018				(\$39,914.23)	\$19,581,727.08	\$19,541,812.85	11.95%	\$183,007,752.85	0	368	368	1,646	10/31/2017
85.1	Credit for Overtime Inspection Hours from 04/01/2018 to 6/30/2018 (CR-089I) PR 04286 Task 4.0	F	FBB	(\$29,150.00)						0				
85.2	Replacement of Network Communication Switches in the Solids Handling Building and Digester Control Building Server Rooms (CR-713) PR 04286 Task 5.30	B	IRWD	(\$10,764.23)						0				

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

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Design Engineer: Black & Veatch

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				Original Contract Amount: \$163,465,940.00						Original Days: 1,278				10/28/2016
Change Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
86	Approved by General Manager Approved on July 30, 2018				\$99,320.53	\$19,541,812.85	\$19,641,133.38	12.02%	\$183,107,073.38	0	368	368	1,646	10/31/2017
86.1	Addition of Waste Gas Burner Instrument Air Compressor System (Material Cost Only) (CR-484) PR 04286 Task 5.31	C	IRWD	\$5,357.20						0				
86.2	Modifications to Piping at the Bulk Liquid Chemical Area (CR-567) PR 04286 Task 5.31	A	IRWD	\$10,248.65						0				
86.3	Modifications to 5-Ton Crane Stops (CR-589A) PR 04286 Task 5.31	C	IRWD	\$6,264.07						0				
86.4	Additional Electrical Conduits and Wires to Connect Andritz Drum Motor (CR-691) PR 04286 Task 5.30	B	IRWD	\$4,419.83						0				
86.5	SCADA Programming Changes to the Digester Gas Final Treatment System (CR-697) PR 04286 Task 5.30	A	IRWD	\$2,374.92						0				
86.6	SCADA Programming Modifications to the Dewatering Feed and Conveyance Systems (CR-700) PR 04286 Task 5.30	A	IRWD	\$29,203.07						0				
86.7	SCADA Programming Modifications to the Heating Water System (CR-703) PR 04286 Task 5.30	A	IRWD	\$22,303.18						0				
86.8	SCADA Programming Modifications to the Centrate Treatment System (CR-705) PR 04286 Task 5.30	A	IRWD	\$17,197.62						0				
86.9	Relocation of 6-Inch CRW Clean-out (CR-716) PR 04286 Task 5.31	A	IRWD	\$1,367.87						0				
86.10	Modifications to Approach Curb in Microturbine Area (CR-718) PR 04286 Task 5.31	A	IRWD	\$584.12						0				

**MWRP Biosolids and Energy Recovery Facilities
PR 21146 (4286)
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Contractor: Filanc/Balfour-Beatty
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				Original Contract Amount: \$163,465,940.00						Original Days: 1,278				10/28/2016
Change Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
87	Approval by General Manager Approved on August 31, 2018				\$98,063.60	\$19,641,133.38	\$19,739,196.98	12.08%	\$183,205,136.98	0	368	368	1,646	10/31/2017
87.1	Electrical Work Related to Commissioning of the Solids Handling Building Elevator (CR-037C) PR 04286 Task 5.30	B	IRWD	\$8,180.42						0				
87.2	Excavation Activities to Install Autodialer (CR-234B) PR 04286 Task 5.30	A	IRWD	\$951.88						0				
87.3	Installation of Monitoring Ports for 54-Inch Foul Air Pipe in Solids Handling Building (CR-446) PR 04286 Task 5.31	B	IRWD	\$1,197.96						0				
87.4	Additional Cladding for Methane Digesters (CR-584) PR 04286 Task 5.29	A	IRWD	\$4,893.64						0				
87.5	SCADA Programming Changes to the Dewatering Centrifuge System (CR-677) PR 04286 Task 5.30	A	IRWD	\$21,537.93						0				
87.6	Water Filter Drain Connections (CR-678) PR 04286 Task 5.31	C	IRWD	\$7,711.86						0				
87.7	Additional Circuits for Dewatering Conveyor (CR-680) PR 04286 Task 5.30	A	IRWD	\$12,268.17						0				
87.8	Dryer Cake Relief Line (CR-693) PR 04286 Task 5.31	A	IRWD	\$4,834.06						0				
87.9	Filling of Abandoned Pipe Sleeves in SHB Elevator Mechanical Room (CR-701) PR 04286 Task 5.31	A	IRWD	\$1,166.06						0				
87.10	FOG Receiving Pump Temperature Switch Modifications (CR-706) PR 04286 Task 5.30	A	IRWD	\$11,775.89						0				
87.11	Temporary Natural Gas Piping to Flare (CR-709) PR 04286 Task 5.31	A	IRWD	\$6,536.47						0				
87.12	SCADA Update to Acid Phase Digesters and Heating Water Loop Controls (CR-719) PR 04286 Task 5.30	A	IRWD	\$17,009.26						0				

**MWRP Biosolids and Energy Recovery Facilities
PR 21146 (4286)
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				Original Contract Amount: \$163,465,940.00						Original Days: 1,278				10/28/2016
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88	Approved by General Manager Approved on September 26, 2018				\$98,601.54	\$19,739,196.98	\$19,837,798.52	12.14%	\$183,303,738.52	0	368	368	1,646	10/31/2017
88.1	Additional Pipe Supports for 24-Inch Foul Air Ducting in the Solids Handling Building (CR-520) PR 04286 Task 5.31	B	IRWD	\$11,140.47						0				
88.2	Electrical Modifications for Waste Gas Burner Control Panel (CR-524) PR 04286 Task 5.30	B	IRWD	\$9,840.13						0				
88.3	Waste Activated Sludge (WAS), Digested Sludge (DS), and Primary Sludge (PS) Piping Modifications (CR-594A) PR 04286 Task 5.31	A	IRWD	\$24,216.24						0				
88.4	Relocation of Scrubber Pipe and Pipe Support (CR-644) PR 04286 Task 5.31	B	IRWD	\$6,390.20						0				
88.5	Update to SCADA Pipe Color Requirements (CR-704A) PR 04286 Task 5.30	C	IRWD	\$4,819.15						0				
88.6	Routing of Microturbine Conduits (CR-711) PR 04286 Task 5.30	A	IRWD	\$6,420.74						0				
88.7	Electrical Power to Heat Trace Panels and Truck Exhaust Fans (CR-714) PR 04286 Task 5.31	C	IRWD	\$22,038.62						0				
88.8	HVAC Duct Modifications in the Digester Control Building Basement (CR-715) PR 04286 Task 5.31	C	IRWD	\$6,507.45						0				
88.9	Revised Light Fixtures Types Located in Solids Handling Building Second Floor (CR-731) PR 04286 Task 5.30	A	IRWD	\$7,228.54						0				
89	Approved by General Manager Approved on October 17, 2018				\$96,405.88	\$19,837,798.52	\$19,934,204.40	12.19%	\$183,400,144.40	0	368	368	1,646	10/31/2017
89.1	Additional Pipe Cake Pipe Supports (CR-596) PR 04286 Task 5.31	C	IRWD	\$39,259.76						0				
89.2	New Railings at the Solids Handling Building, Bulk Polymer Storage Facility, and Centrate Treatment Facility (CR-707) PR 04286 Task 5.29	A	IRWD	\$17,330.67						0				
89.3	Modifications to Programmable Control Panels Controlling Digester Gas Treatment Process and Liquid Chemicals (CR-710) PR 04286 Task 5.30	A	IRWD	\$11,570.41						0				
89.4	SCADA Modifications to the Acid Gas Boosters System (CR-721) PR 04286 Task 5.31	A	IRWD	\$8,047.39						0				
89.5	Miscellaneous Time and Materials Items (CR-725) PR 04286 Task 5.31	B	IRWD	\$2,955.65						0				
89.6	SCADA Modifications to the Cake Receiving Bins (CR-734) PR 04286 Task 5.30	A	IRWD	\$17,242.00						0				

**MWRP Biosolids and Energy Recovery Facilities
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90	Approved by Board of Directors Approved on October 22, 2018				\$259,999.33	\$19,934,204.40	\$20,194,203.73	12.35%	\$183,660,143.73	0	368	368	1,646	10/31/2017
90.1	Biosolids Site Modifications (CR-331L) PR 04286 Task 5.29	C	IRWD	\$40,726.48						0				
90.2	Modifications to the Cake Receiving Bin LCP (CR-597) PR 04286 Task 5.30	A	IRWD	\$75,524.26						0				
90.3	Architectural Modifications in the Centrifuge Area in the Solids Handling Building (CR-681) PR 04286 Task 5.29	A	IRWD	\$10,468.65						0				
90.4	Modifications to the Bulk Polymer Access Platform (CR-708) PR 04286 Task 5.31	B	IRWD	\$53,407.62						0				
90.5	Addition of Cake Hopper Platform (CR-720) PR 04286 Task 5.31	A	IRWD	\$59,714.23						0				
90.6	Modifications to the Dryer System (CR-728) PR 04286 Task 5.30	A	IRWD	\$14,724.76						0				
90.7	Modifications to the Cake Storage System (CR-730) PR 04286 Task 5.30	A	IRWD	\$5,433.33						0				
91	Approved by Executive Director of Engineering and Water Quality Approved on October 18, 2018				(\$20,460.00)	\$20,194,203.73	\$20,173,743.73	12.34%	\$183,639,683.73	0	368	368	1,646	10/31/2017
91.1	Credit for Overtime Inspection Hours from 07/01/2018 to 9/30/2018 (CR-089J) PR 04286 Task 4.0	F	IRWD	(\$20,460.00)						0				

**MWRP Biosolids and Energy Recovery Facilities
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Design Engineer: Black & Veatch

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				Original Contract Amount: \$163,465,940.00						Original Days: 1,278				10/28/2016
Change Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
92	Approved by Executive Director of Engineering and Water Quality Approved on November 12, 2018				\$73,782.76	\$20,173,743.73	\$20,247,526.49	12.39%	\$183,713,466.49	0	368	368	1,646	10/31/2017
92.1	Addition of Oil Leak Detection Sensor at Nitrogen and Mineral Oil Area (CR-471H) PR 04286 Task 5.30	A	IRWD	\$1,989.71						0				
92.2	Modifications at the Centrate Treatment Decant Wet Well (CR-576) PR 04286 Task 5.31	B	IRWD	\$4,285.46						0				
92.3	Modifications to the Methane Digester Gas Line (CR-664) PR 04286 Task 5.31	A	IRWD	\$2,573.91						0				
92.4	Addition of Cladding at Digester Control Building and Bridge to Methane Digester No. 1 (CR-674) PR 04286 Task 5.31	A	IRWD	\$15,067.18						0				
92.5	Conduits and Wires for Hand Dryers in Solids Handling Building Restrooms (CR-724) PR 04286 Task 5.30	C	IRWD	\$6,617.91						0				
92.6	Miscellaneous IRWD-Directed Work Items (CR-725B/725E) PR-04286 Task 5.30	A	IRWD	\$6,295.31						0				
92.7	Additional Devices for Silo Dust Collector System (CR-729) PR 04286 Task 5.30	A	IRWD	\$8,208.65						0				
92.8	SCADA Modifications to the Cake Storage System (CR-730A) PR 04286 Task 5.30	A	IRWD	\$1,561.76						0				
92.9	Relocation of 2 Gas Lines (CR-732) PR 04286 Task 5.30	A	IRWD	\$5,117.41										
92.10	Pipe Support Pedestal Modifications (CR-483) PR 04286 Task 5.29	C	IRWD	\$12,025.46										
92.11	Removal of Installed Buried Valves at Centrate Facility (CR-560A) PR 04286 Task 5.31	A	IRWD	\$10,040.00						0				
93	Approved by Executive Director of Engineering and Water Quality Approved on November 12, 2018				(\$35,240.94)	\$20,247,526.49	\$20,212,285.55	12.36%	\$183,678,225.55	0	368	368	1,646	10/31/2017
93.1	Deletion of Insulation on Selected Digester Gas Lines (CR-558) PR 04286 Task 5.31	A	IRWD	(\$30,454.98)						0				
93.2	Deletion of Insulation on Selected Air Piping at Centrate Treatment Facility (CR-736) PR 04286 Task 5.31	A	IRWD	(\$4,785.96)						0				

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

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

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94	Approved by General Manager Approved on January 14, 2019				\$99,830.69	\$20,212,285.55	\$20,312,116.24	12.43%	\$183,778,056.24	0	368	368	1,646	10/31/2017
94.1	Biosolids Site Paving Modifications (CR-331M) PR 04286 Task 5.29	A	IRWD	\$0.00						0				
94.2	Addition of Waste Gas Burner Instrument Air Compressor System (Labor and Equipment Cost) (CR-484C) PR 04286 Task 5.31	C	IRWD	\$13,222.97						0				
94.3	SCADA Programming Modifications to Programmable Control Panels Controlling Digester Gas Treatment Process and Liquid Chemicals (CR-710A) PR 04286 Task 5.3	A	IRWD	\$47,459.22						0				
94.4	Additional Electrical Outlets in the Solids Handling Building and Digester Control Building (CR-717) PR 04286 Task 5.29	A	IRWD	\$2,877.70						0				
94.5	Changes to Aeration Blower Control Panel Circuits (CR-722) PR 04286 Task 5.30	B	IRWD	\$5,998.43						0				
94.6	Relocation of Conduit in the Dryer Area (CR-725D) PR 04286 Task 5.30	A	IRWD	\$1,784.08						0				
94.7	SCADA Programming Modifications to Acid Gas Bypass Valve (CR-738) PR 04286 Task 5.30	A	IRWD	\$10,269.19						0				
94.8	SCADA Programming Modifications to Valve Configuration Logic of the Dewatering Feed System (CR-740) PR 04286 Task 5.30	A	IRWD	\$18,219.10						0				
95	Approved by Exe. Dir. of Engineering and Water Quality Approved on January 15, 2019				(\$2,640.00)	\$20,312,116.24	\$20,309,476.24	12.42%	\$183,775,416.24	0	368	368	1,646	10/31/2017
95.1	Biosolids Site Paving Modifications (CR-331M) PR 04286 Task 5.29	F	IRWD	(\$2,640.00)						0				
96	Approved by General Manager Approved on February 28, 2019				\$96,442.55	\$20,309,476.24	\$20,405,918.79	12.48%	\$183,871,858.79	0	368	368	1,646	10/31/2017
96.1	Additional Recycled Pipe near the Methane Digester Area (CR-441) PR 04286	A	IRWD	\$30,547.94						0				
96.2	Thickening Centrifuge Piping Modifications (CR-488) PR 04286 Task 5.31	B	IRWD	\$9,769.47						0				
96.3	SCADA Control Logic Change in the Polymer Thickening Tank Area (CR-669A) PR 04286 Task 5.30	A	IRWD	\$17,462.04						0				
96.4	Miscellaneous IRWD-Directed Work Items (CR-725G/725H/725I/725J/725K) PR 04286 Task 5.31	A	IRWD	\$25,706.09						0				
96.5	Changes to Heat Dryer System Circuits (CR-737) PR 04286 Task 5.30	B	IRWD	\$4,099.24						0				
96.6	Additional Circuit for Heat Dryer Equipment (CR-743) PR 04286 Task 5.30	B	IRWD	\$2,655.01						0				
96.7	SCADA Programming Changes for Dewatering Biosolids Distribution System (CR-745) PR 04286 Task 5.30	A	IRWD	\$6,202.76						0				

**MWRP Biosolids and Energy Recovery Facilities
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97	Approved by Exe Dir of Eng and Water Quality Approved on February 28, 2019				(\$56,137.59)	\$20,405,918.79	\$20,349,781.20	12.45%	\$183,815,721.20	0	368	368	1,646	10/31/2017
97.1	Deletion of CR-232 Addition of Two Doors at the bases of the stairways at Methane Digesters Nos. 1 and No. 2 (CR-232A) PR 04286 Task 5.29	A	IRWD	(\$52,251.65)						0				
97.2	Deletion of Cables for Truck Load-Out Control Panels (CR-685) PR 04286 Task 5.30	B	IRWD	(\$3,885.94)						0				
98	Approved by General Manager Approved on March 25, 2019				\$99,919.10	\$20,349,781.20	\$20,449,700.30	12.51%	\$183,915,640.30	0	368	368	1,646	10/31/2017
98.1	Provide Hollow Metal Door at Digester Control Building (CR-037D) PR 04286 Task 5.29	E	FBB	\$1,747.70						0				
98.2	Modifications to Truck Scale Ramp Area (CR-331A) PR 04286 Task 5.29	E	FBB	\$32,634.50						0				
98.3	Sample Ports for AQMD Monitoring (CR-478) PR 04286 Task 5.31	B	IRWD	\$5,871.96						0				
98.4	Modification of FRP Foul Air Line (CR-638/638A) PR 04286 Task 5.31	B	IRWD	\$14,067.70						0				
98.5	New 208 V Power Source in the Solids Handling Building Sampling Room (CR-725F) PR 04286 Task 5.30	B	IRWD	\$17,725.27						0				
98.6	Test Ports for Southern California Gas (CR-725L) PR 04286 Task 5.31	B	IRWD	\$7,947.83						0				
98.7	Electrical Modifications for Conveyors in the Solids Handling Building (CR-742) PR 04286 Task 5.30	B	IRWD	\$6,903.78						0				
98.8	Additional Light Fixtures in the Digester Control Building and Solids Handling Building (CR-747) PR 04286 Task 5.30	A	IRWD	\$12,425.53						0				
98.9	Offset Saddles for Door Openings in the Solids Handling Building (CR-753) PR 04286 Task 5.29	B	FBB	\$594.83						0				

**MWRP Biosolids and Energy Recovery Facilities
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99	Approved by Board of Directors Approved on March 25, 2019				\$330,609.60	\$20,449,700.30	\$20,780,309.90	12.71%	\$184,246,249.90	0	368	368	1,646	10/31/2017
99.1	Regenerative Thermal Oxidizer Stack Bypass Re-route (CR-153) PR 04286 Task 5.31	A	IRWD	\$42,305.48						0				
99.2	Additional Soil Remediation on the South Road of Biosolids Site (CR-327) PR 04286 Task 5.29	B	IRWD	\$43,444.97						0				
99.3	Additional Base and Paving (CR-331C) PR 04286 Task 5.29	B	IRWD	\$21,619.30						0				
99.4	Odor Scrubber Recirculation Piping and Pipe Support Modifications (CR-402/CR-402A) Task 5.31	B	IRWD	\$103,308.35						0				
99.5	Electrical Modifications in the Control Room of the Solids Handling Building (CR-453A) PR 04286 Task 5.30	A	IRWD	\$9,371.28						0				
99.6	Modifications to the Acoustical Panels in the Solids Handling Building (CR-723) PR 04286 Task 5.30	A	IRWD	\$14,704.14						0				
99.7	New 480 V Power Source for Vacuum System in the Dryer Room (CR-733) PR 04286 Task 5.30	C	IRWD	\$9,995.96						0				
99.8	Explosion Proof Duct Detector in the Digester Control Building Gas Room (CR-744) PR 04286 Task 5.30	C	IRWD	\$25,719.23						0				
99.9	SCADA Programming Update to the Centrate Treatment Area (CR-748) PR 04286 Task 5.29	A	IRWD	\$38,467.14						0				
99.10	SCADA Programming Update to Digester Gas System (CR-754) PR 04286 Task 5.29	A	IRWD	\$21,673.75						0				
100					\$0.00	\$20,780,309.90	\$20,780,309.90	12.71%	\$184,246,249.90		368	368	1,646	10/31/2017
100.10	N/A	A	IRWD	\$0.00						0				

**MWRP Biosolids and Energy Recovery Facilities
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101	Approved by General Manager Approved on April 22, 2019				\$89,669.97	\$20,780,309.90	\$20,869,979.87	12.77%	\$184,335,919.87	0	368	368	1,646	10/31/2017
101.1	Modifications to the Dryer Room Fan Support (CR-465) PR 04286 Task 5.30	B	IRWD	\$10,812.84						0				
101.2	Electrical Power to Heat Trace Panels and Truck Exhaust Fans (CR-714A) PR 04286 Task 5.30	A	IRWD	\$26,487.96						0				
101.3	Modifications to the Access Hatches at Truck Loading Area (CR-741.R1) PR 04286 Task 5.30	B	IRWD	\$15,340.36						0				
101.4	Modifications to the Polymer Control Panels (CR-752) PR 04286 Task 5.30	B	IRWD	\$5,370.11						0				
101.5	Electrical Modifications to the Make-Up Air Unit 32-MAU-101 (CR-755) PR 04286 Task 5.30	B	FBB	\$10,482.29						0				
101.6	Modifications to the Andritz RIO-2111 Panel (CR-756) PR 04286 Task 5.30	B	IRWD	\$5,811.87						0				
101.7	Cyber Security Modifications to the Plant Control System (CR-758A) PR 04286 Task 5.30	A	IRWD	\$11,427.88						0				
101.8	Modifications to the Resilient Flooring in the Solids Handling Building (CR-759) PR 04286 Task 5.29	B	FBB	\$3,936.66						0				
102	Approved by General Manager Approved on May 30, 2019				\$99,848.40	\$20,869,979.87	\$20,969,828.27	12.83%	\$184,435,768.27	0	368	368	1,646	10/31/2017
102.1	Modifications to SCE Substation (CR-146D) PR 04286 Task 5.30	B	IRWD	\$5,091.51						0				
102.2	Deionized Water System Modifications (CR-692) PR 04286 Task 5.30	A	IRWD	\$10,225.44						0				
102.3	Acid Phase Recirculation Pump High Motor Temperature Switch Modification (CR-735.Rev 1) PR 04286 Task 5.30	B	IRWD	\$5,558.65						0				
102.4	Centrate Purge Air Solenoid Interconnection - Additional 120 V Fused Circuit (CR-749) PR 04286 Task 5.30	C	IRWD	\$6,317.74						0				
102.5	Cyber Security Modifications to the Plant Control System (CR-758.R1) PR 04286 Task 5.30	A	IRWD	\$39,841.55						0				
102.6	Additional Gas Flow Meters for Boilers (CR-761) PR 04286 Task 5.30	B	IRWD	\$32,813.51						0				
103	Approved by Board of Directors Approved on May 22, 2019				\$136,584.96	\$20,969,828.27	\$21,106,413.23	12.91%	\$184,572,353.23	0	368	368	1,646	10/31/2017
103.1	MWRP Biosolids Concrete Flatwork and Miscellaneous Site Improvements (CR-331B) PR 04286 Task 5.29	A	IRWD	\$136,584.96						0				
104	Approved by General Manager Approved on June 3, 2019				\$63,277.31	\$21,106,413.23	\$21,169,690.54	12.95%	\$184,635,630.54	0	368	368	1,646	10/31/2017
104.1	Installation of Level Indicators at the Primary Sludge/Waste Activated Sludge Wetwells (CR-403) PR 04286 Task 5.31	C	FBB	\$4,246.75						0				
104.2	Modifications to Access Features around Pellet Silos (CR-443) PR 04286 Task 5.31	B	FBB	\$17,749.58						0				
104.3	Pipe Supports for Foul Air Piping (CR-451) PR 04286 Task 5.31	B	FBB	\$17,245.34						0				

**MWRP Biosolids and Energy Recovery Facilities
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104.4	Addition of Isolation Valve on Utility Water Line (CR-712) PR 04286 Task 5.31	A	IRWD	\$2,528.80						0				
104.5	Andritz Acid Recirculation Line Valves and Appurtenances (CR-725A) PR 04286 Task 5.31	C	FBB	\$5,353.07						0				
104.6	Fire Alarm Explosion Proof Duct Detector Bracket in the Digester Control Building Gas Room (CR-744A) PR 04286 Task 5.30	C	FBB	\$3,218.12						0				
104.7	Modifications to the Centrifuge Cake Conveyors (CR-757) PR 04286 Task 5.30	B	FBB	\$4,905.20						0				
104.8	Modification to the SCADA Programming of Waste Gas Burner HMI Screen (CR-760) PR 04286 Task 5.30	A	IRWD	\$8,030.45						0				
105	Approved by Exe. Director of Technical Services Approved on July 19, 2019				\$7,199.56	\$21,169,690.54	\$21,176,890.10	12.95%	\$184,642,830.10	0	368	368	1,646	10/31/2017
105.1	Truck Exhaust System Modifications (CR-714B) PR 04286 Task 5.30	A	FBB	\$7,199.56						0				
106	Approved by Executive Director of Technical Services Approved on August 12, 2019				\$24,817.63	\$21,176,890.10	\$21,201,707.73	12.97%	\$184,667,647.73	0	368	368	1,646	10/31/2017
106.1	Modifications to the Thickening Centrifuge Sampling System (CR-463 Rev 1) PR 04286 Task 5.31	B	FBB	\$17,462.03						0				
106.2	Modifications to the Compressed Air Systems for Dewatering Centrifuges (CR-595B Rev 1) PR 04286 Task 5.31	B	FBB	\$6,586.20						0				
106.3	Additional Power Pole in Solids Handling Building Sampling Room (CR-767) PR 04286 Task 5.30	A	IRWD	\$769.40						0				
107	Approved by Executive Director of Technical Services Approved on September 17, 2019				\$59,319.99	\$21,201,707.73	\$21,261,027.72	13.01%	\$184,726,967.72	0	368	368	1,646	10/31/2017
107.1	SCADA Programming Updates to the Polymer Storage and Aging Tanks System (CR-769) PR 04286 Task 5.30	A	IRWD	\$4,819.99						0				
107.2	HVAC Fan Installation Modifications at the Solids Handling Building (CR-763) PR 04286 Task 5.31	A	FBB	\$65,000.00						0				
107.3	Delete Bid Item 11 – Special Signage (CR-772) PR 04286 Task 5.29	A	IRWD	(\$10,500.00)						0				
108	Approved by General Manager Approved on October 31, 2019				\$43,024.53	\$21,261,027.72	\$21,304,052.25	13.03%	\$184,769,992.25	0	368	368	1,646	10/31/2017
108.1	Stairs Throughout Biosolids Site (CR-331O) PR 04286 Task 5.29	A	IRWD	\$18,000.00										
108.2	Deletion of 3 Pressure Gauges (CR-486 Rev 1) PR 04286 Task 5.30	A	IRWD	(\$637.62)										
108.3	Ladder at High Roof of Solids Handling Building (CR-725M) PR 04286 Task 5.29	A	IRWD	\$1,892.63						0				
108.4	Acid Phase Recirculation Pump High Motor Temperature Switch Modification - Rockwell (CR-735A) PR 04286 Task 5.30	B	IRWD	\$6,382.83						0				
108.5	Modifications to the Centrifuge Cake Conveyors - Rockwell (CR-757A) PR 04286 Task 5.30	B	IRWD	\$3,191.37						0				
108.6	Air Dryer Termination Modifications at Solids Handling Building Fan (CR-770) PR 04286 Task 5.30	B	IRWD	\$6,544.35						0				

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108.7	Process Control System Security Modifications (CR-771) PR 04286 Task 5.30	A	IRWD	\$7,650.97						0				
109	Approved by Executive Director of Technical Services Approved on October 28, 2019 Concrete Masonry Unit Restraint Modifications in Solids Handling Building (CR-439) PR 04286 Task 5.29	B	FBB	\$45,000.00	\$45,000.00	\$21,304,052.25	\$21,349,052.25	13.06%	\$184,814,992.25	0	368	368	1,646	10/31/2017
110	Approved by Executive Director of Technical Services Approved on February 21, 2020 Delete Bid Item 18.3 – Allowance – SI Reporting (CR-781) PR 04286 Task 5.30	A	IRWD	(\$100,000.00)	(\$358,124.97)	\$21,349,052.25	\$20,990,927.28	12.84%	\$184,456,867.28	0	368	368	1,646	10/31/2017
110.2	Credit for Remaining Portion of Bid Item 21 – Differing Site Conditions (CR-782) PR 04286 Task 5.30	A	IRWD	(\$258,124.97)						0				
111	Approved by Executive Director of Technical Services Approved on February 26, 2020 Credit for Deleting the Coating of Aluminum Ductwork (CR-191) PR 04286 Task 5.29	A	IRWD	(\$6,211.50)	(\$35,121.17)	\$20,990,927.28	\$20,955,806.11	12.82%	\$184,421,746.11	0	368	368	1,646	10/31/2017
111.2	Install WiFi Access Points Units at the Solids Handling Building and Digester Control Building (CR-776) PR 04286 Task 5.30	A	IRWD	\$1,128.04						0				
111.3	Modifications on SCADA Programming of Heat Dryer Sulfuric Acid Metering Pump (CR-778) PR 04286 Task 5.30	A	IRWD	\$4,829.02						0				
111.4	Access Hatches to Actuators - Solids Handling Building Truck Loading Area Metal Ceiling (CR-766) PR 04286 Task 5.29	C	IRWD	\$7,924.91						0				
111.5	Credit for Air Emission Compliance Testing of the Heat Dryer System (CR-783) PR 04286 Task 5.29	A	IRWD	(\$37,309.68)						0				
111.6	Credit for Chemicals Used in Testing of Odor Control Facility (CR-784) PR 04286 Task 5.29	A	IRWD	(\$3,299.91)						0				
111.7	Credit – Solids Handling Building Sample Analysis Room Flooring (CR-786) PR 04286 Task 5.29	A	IRWD	(\$2,182.05)						0				
112	Approved by Executive Director of Technical Services Approved on March 17, 2020 Electrical Modifications – Decanter Area Limit Switches (CR-777) PR 04286 Task 5.30	C	IRWD	\$3,533.74	\$16,906.08	\$20,955,806.11	\$20,972,712.19	12.83%	\$184,438,652.19	0	368	368	1,646	10/31/2017
112.2	Electrical Modifications – Centrate Treatment Inlet Gates Control (CR-779) PR 04286 Task 5.30	C	IRWD	\$1,051.77						0				
112.3	Updates to Control Block Descriptions 17335-A-1900, 17335-A-3200, and 17335-A-5000 (CR-780) PR 04286 Task 5.30	A	IRWD	\$12,320.57						0				
113	Approved by Executive Director of Technical Services Approved on April 16, 2020				\$3,481.54	\$20,972,712.19	\$20,976,193.73	12.83%	\$184,442,133.73	0	368	368	1,646	10/31/2017

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113.1	Electrical and SCADA Programming Support for Shutdown (CR-787) PR 04286 Task 5.30	C	IRWD	\$3,481.54						0				
114	Approved by Executive Director of Technical Services				\$19,362.90	\$20,976,193.73	\$20,995,556.63	12.84%	\$184,461,496.63	0	368	368	1,646	10/31/2017
114.1	RFI-2301 Finishing on Access Panels for Truck Loadout Area (CR-766A) PR 04286 Task 5.30	A	IRWD	\$1,817.27						0				
114.2	Fume hood modificatoin in the SHB Sample Analysis Room (CR-788) PR 04286 Task 5.30	C	IRWD	\$2,782.11						0				
114.3	Polymer Dilution UW Pressure & Pipe Modifications (CR-775), PR 04286 Task 5.30	A	IRWD	\$7,923.10						0				
114.4	Thickening Sludge Wetwell Inlet Valve Tag Change (CR-791), PR 04286 Task 5.30	A	IRWD	\$1,209.77						0				
114.5	Additional Conductor between RIO-2002 and PLC-10, Circuit C200780. (CR-793), PR 04286 Task 5.30	C	IRWD	\$3,008.37						0				
114.6	DCB Elevator control room duct modifications to pass inspection, (CR-789), PR04286 Task 5.30	B	IRWD	\$2,622.28						0				
115	Approved by Executive Director of Technical Services				(\$21,750.00)	\$20,995,556.63	\$20,973,806.63	12.83%	\$184,439,746.63	0	368	368	1,646	10/31/2017
115.1	Deductive CO for Optional Tasks 6.3 & 6.4 in the Bid Schedule.	A	IRWD	(\$21,750.00)						0				
116	Approved by Executive Director of Technical Services				\$97,352.30	\$20,973,806.63	\$21,071,158.93	12.89%	\$184,537,098.93	0	368	368	1,646	10/31/2017
116.1	(CR-795): Capstone Neutral Wire T&M	A	IRWD	\$96,231.66						0				
116.2	(CR-796): GEA LIT_LSH Programming Modification	A	IRWD	\$1,120.64						0				
117	Approved by Executive Director of Technical Services				\$17,704.23	\$21,071,158.93	\$21,088,863.16	12.90%	\$184,554,803.16	0	368	368	1,646	10/31/2017
117.1	(PCR- 797): Andritz HRD System Wiring (FBB 4100-000-1529 NOPC re RFI-2327)	E	FBB	\$12,960.57						0				

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

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

				Contract Amount						Contract Days				Original Completion Date:
				Original Contract Amount: \$163,465,940.00						Original Days: 1,278				10/28/2016
Change Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
117.2	(CR-794): PLC-2000: Modify PLC code for new NOE card provided by IRWD. Implement run-time DFB and other minor improvements.	A	IRWD	\$4,743.66						0				
118	Approved by Executive Director of Technical Services				(\$22,838.47)	\$21,088,863.16	\$21,066,024.69	12.89%	\$184,531,964.69	0	368	368	1,646	10/31/2017
118.1	Approved on 10/11/2021 CR-799: 120V service to RIO-10, 50, and Andritz workstation panel AC-T&M	C	IRWD	\$13,300.78						0				
118.2	CR-800: Deductive credit for uninstalled work from CR-124	A	IRWD	(\$11,139.25)						0				
118.3	CR-801: Negotiated credit to accept Superior Boilers in current state of commissioning	A	IRWD	(\$25,000.00)						0				
119	Approved by Executive Director of Technical Services				(\$50,000.00)	\$21,066,024.69	\$21,016,024.69	12.86%	\$184,481,964.69	0	368	368	1,646	10/31/2017
119.1	Approved on 12/06/2021 Negotiated credit for Gas Treatment System Deficiencies	A	IRWD	(\$50,000.00)						0				

A - District Convenience/Initiation - Project Related	\$ 4,019,632.64	2.46%
B - Differing Site Conditions	\$ 13,318,630.35	8.15%
C - Design Oversight	\$ 3,850,126.39	2.36%
D - District Convenience/Initiation - Non-Project Related	\$ -	0.00%
E - Contractor Convenience/Initiation	\$ 145,645.31	0.09%
F - Contractor Requested Inspection Overtime	\$ (318,010.00)	-0.19%
SUBTOTAL (A + B + C + D + E + F)	\$ 21,016,024.69	12.86%
G - Settlement Agreement	\$ 22,500,000.00	13.76%
TOTAL (A + B + C + D + E + F + G)	\$ 43,516,024.69	26.62%

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December 13, 2021
Prepared by: J. Corey / K. Welch
Submitted by: F. Sanchez / P. Weghorst
Approved by: Paul A. Cook *PA*

CONSENT CALENDAR

ADDENDUM NO. 2 TO INITIAL STUDY / MITIGATED NEGATIVE DECLARATION FOR DOMESTIC RESERVOIR MANAGEMENT SYSTEM PROJECT

SUMMARY:

Nitrification due to the loss of chlorine residual, excess free ammonia and low water supply turnover can result in degraded water quality in the Turtle Rock Zone 3 Reservoir. Staff proposes minor modifications to the project analyzed in the Final Initial Study /Mitigated Negative Declaration (IS/MND) for the Reservoir Management System (RMS), Chlorine Analyzers and Reservoir Mixers/Samplers at Domestic Reservoirs Project (RMS Project). Proposed modifications include installation of an RMS to address the nitrification issues at the Turtle Rock Zone 3 Reservoir. Environmental review of the proposed modifications has been completed and staff recommends that the Board approve the modifications, approve Addendum No. 2 to the IS/MND and authorize staff to file a Notice of Determination.

BACKGROUND:

On April 30, 2007, the Board adopted an IS/MND for the RMS Project and approved the project. Project facilities were installed at 19 reservoirs between 2007 and 2009. In 2015, IRWD evaluated and approved Addendum No. 1 to the IS/MND, which modified the Portola Zone 8 and Foothill Zone 6 Reservoirs with an RMS at each site. The proposed RMS installation at the Turtle Rock Zone 3 Reservoir, located at 13-½ Minaret Drive in Irvine, has since been designed to allow IRWD to modify the Turtle Rock Zone 3 Reservoir with a full RMS system and other ancillary improvements. A location map of the proposed project at the Turtle Rock Zone 3 reservoir is provided as Exhibit "A". Following is a description of the proposed modifications to the project site.

Proposed Turtle Rock Zone 3 Reservoir Modifications:

Based on the effectiveness of RMS installations at the other domestic water reservoirs, IRWD plans to install an RMS at the Turtle Rock Zone 3 Reservoir site to address nitrification issues. The proposed modifications include:

- Construction of a new, approximately 279 square foot, RMS building with chemical storage, metering pumps, chlorine residual analyzers and mixers;
- Construction of a new concrete stairway and walkway connecting the pump station building to the top of the reservoir;
- Regrading and widening of the existing access road to 10 feet wide to provide improved maintenance truck access;
- Installation of a new wrought iron fence and security gate across the access road to fully secure the project site and deter trespassers from using the access road;

- Relocation of existing electrical conduit and gas lines leading to the new pump station; and
- Installation of new drain and sewer connection for the RMS building.

Findings of Addendum No. 2:

The proposed modifications to the Turtle Rock Zone 3 Reservoir site, as described above, would not change the regulatory framework, impact discussions, mitigation measures or significant conclusions as described in the IS/MND. Environmental review has been completed for the proposed modification to the project as described above and Addendum No. 2 to the IS/MND has been prepared by environmental consultants at Dudek. Based on the information and analysis in the proposed Addendum No. 2, the Determination section of the Addendum sets forth the proposed determination by IRWD that no conditions described in the California Environmental Quality Act (CEQA) calling for the preparation of a subsequent MND have occurred. A copy of Addendum No. 2 is provided as Exhibit "B".

FISCAL IMPACTS:

The funds necessary for the environmental review associated with the proposed project are included in project 11840 in the FY 2021-23 Capital Budget. The existing budget and Expenditure Authorizations are sufficient at this time.

ENVIRONMENTAL COMPLIANCE:

Section 15164 of the CEQA Guidelines provides for the preparation of an Addendum to a previously approved Mitigated Negative Declaration (MND) by a lead agency or a responsible agency if some changes or additions to the project are necessary, but none of the conditions described in CEQA calling for preparation of a subsequent MND have occurred. Based on the information and analysis presented in the proposed Addendum No. 2 to the IS/MND, the determination section of the Addendum No. 2 sets forth the proposed determinations by IRWD that none of such conditions have occurred.

COMMITTEE STATUS:

This item was not reviewed by Committee.

RECOMMENDATION:

THAT THE BOARD APPROVE THE PROPOSED ADDENDUM NO. 2 TO THE FINAL INITIAL STUDY/MITIGATED NEGATIVE DECLARATION FOR THE RESERVOIR MANAGEMENT SYSTEM, CHLORINE ANALYZERS AND RESERVOIR MIXERS/SAMPLERS AT DOMESTIC WATER RESERVOIRS PROJECT, INCLUDING THE DETERMINATIONS SET FORTH IN ADDENDUM NO. 2; APPROVE THE MODIFICATIONS TO THE PROJECT; AND AUTHORIZE STAFF TO FILE A NOTICE OF DETERMINATION.

LIST OF EXHIBITS:

Exhibit "A" – Project Location Map

Exhibit "B" – Addendum No. 2 to the Reservoir Management System, Chlorine Analyzers and Reservoir Mixers/Samplers at Domestic Water Reservoirs Final Initial Study/Mitigated Negative Declaration

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EXHIBIT "A"



SOURCE: Bing Maps (Accessed 2021), Orange County 2019



FIGURE 2
Vicinity Map

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Exhibit “B”

A COPY OF EXHIBIT “B” CAN BE OBTAINED FROM THE DISTRICT SECRETARY AND IS AVAILABLE FOR DOWNLOAD AT THE FOLLOWING LINK:

https://www.irwd.com/images/pdf/doing-business/environmental-documents/env-documents-2021/Addendum_2_Turtle_Rock_Zone_3_Res_RMS.pdf

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December 13, 2021
Prepared and
submitted by: C. Compton
Approved by: Paul A. Cook



CONSENT CALENDAR

2022 GENERAL COUNSEL CONTRACT

SUMMARY:

IRWD's General Counsel provides legal services related to municipal law, transactional and non-complex issues, rate-setting, and other routine general counsel matters. Since 2020, IRWD has contracted with Hanson Bridgett for general counsel services; its current contract expires on December 31, 2021. 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, 2022, to December 31, 2022, for a not-to-exceed amount of \$1,050,000.

BACKGROUND:

IRWD has a team approach for legal services, dividing legal responsibilities among several law firms. The approach utilizes a General Counsel who provides legal services related to municipal law, transactional and non-complex issues, rate-setting, and other routine legal matters. The General Counsel also coordinates with IRWD's other legal counsel. IRWD's non-General Counsel legal firms provide 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 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 the firm of Hanson Bridgett. Upon receiving notice that Ms. Collins was transitioning to Hanson Bridgett, the Board on December 11, 2019, appointed Hanson Bridgett to provide general counsel services to IRWD. It also renamed Ms. Collins to serve in the role of General Counsel for IRWD effective January 1, 2020.

Claire Hervey Collins continues to serve in the role of General Counsel for IRWD. As general counsel, Ms. Collins, and on occasion other members of the Hanson Bridgett firm, provides general counsel legal services for IRWD focused on municipal law, transactional and non-complex issues, and rate-setting. While Ms. Collins provides the majority of the legal services required by IRWD, Mr. Paul Beck assists Ms. Collins, serving as an Assistant General Counsel for IRWD to assist with the legal workload and to ensure continuity of service should Ms. Collins become unavailable.

Proposed Contract with Hanson Bridgett LLP:

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. The total not-to-exceed value of the contract is proposed at \$1,050,000 – the same amount as for the 2021 contract. The proposed not-to-exceed value is based on the hourly rates listed below:

	2021 Rate	2022 Rate
Partners	\$383	\$410
Counsel / Senior Counsel	\$347	\$375
Associate / Other Attorneys	\$310	\$335
Practice Support Analyst	\$250	\$270
Paralegal / Law Clerk	\$175	\$190

Staff recommends that the Board authorize the General Manager to enter into a Professional Services Agreement with Hanson Bridgett. The proposed contract term would run from January 1, 2022, until December 31, 2022.

FISCAL IMPACTS:

The total not-to-exceed amount for the contract is \$1,050,000. Services associated with this contract will be charged to the Fiscal Year 2021-2022 and Fiscal Year 2022-2022 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, 2022, TO DECEMBER 31, 2022, AND A NOT-TO-EXCEED VALUE OF \$1,050,000.

LIST OF EXHIBITS:

Exhibit “A” – None

EXHIBIT "A"

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

Summary of Scope of Work:

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.

HANSON BRIDGETT LLP SUMMARY OF THE SCOPE OF WORK AND PROPOSED HOURLY RATES
(continued)

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, 2022:

Partners:	\$410.00 per hour
Counsel/Sr. Counsel:	\$375.00 per hour
Associates/Other Attorneys:	\$335.00 per hour
Practice Support Analysts:	\$270.00 per hour
Paralegals & Law Clerks:	\$190.00 per hour

December 13, 2021
Prepared by: J. McGehee / R. Mori
Submitted by: K. Burton
Approved by: Paul A. Cook *P.A.C.*

ACTION CALENDAR

PFAS TREATMENT UPDATE AND SHALLOW GROUNDWATER UNIT PFAS TREATMENT SYSTEM CONSULTANT SELECTION

SUMMARY:

Per-and polyfluoroalkyl substance (PFAS) compounds have emerged as “contaminants of concern” primarily due to human health impacts. Design of treatment systems to remove PFAS compounds from IRWD’s Orange Park Acres Well No. 1 (OPA-1) and the Department of the Navy’s (DON) Well ET-1 are nearing completion, and the design for the DON’s extraction wells that discharge to IRWD’s Shallow Groundwater Unit (SGU) treatment facility will begin soon. To facilitate design and construction of the SGU treatment system, staff recommends the Board authorize the General Manager to execute a Professional Services Agreement in the amount of \$348,000 with Tetra Tech for engineering design services for the SGU PFAS Treatment System.

BACKGROUND:

PFAS Treatment Facilities at Well OPA-1:

The engineering design for the PFAS treatment facilities at Well OPA-1 is nearly complete. AECOM is the design engineer for the PFAS removal facilities Well OPA-1. The Well OPA-1 PFAS removal facilities will consist of two pairs of ion exchange vessels that will be capable of treating up to 3,200 gallons per minute (gpm). Orange County Water District (OCWD) is administering the OPA-1 design contract with AECOM, while IRWD provides the day-to-day management and technical oversight of the design development. OCWD is funding the design and construction of the OPA-1 facilities. Staff anticipates that the design documents for these facilities will be complete in January 2022, after which the construction of this project will be put out to bid. Construction of the PFAS removal facilities at Well OPA-1 is anticipated to be completed by Winter 2023.

PFAS Treatment Facilities at Well ET-1:

The engineering design for the PFAS treatment facilities at Well ET-1 is also nearly complete. Tetra Tech is the design engineer for the PFAS removal facilities Well ET-1. The Well ET-1 facilities will consist of two 40,000-pound granular activated carbon vessels to treat both PFAS and volatile organic compounds (VOCs). The vessels will be capable of treating up to 1,000 gpm to be utilized for non-potable purposes. Exhibit “A” shows the location of the ET-1 facilities. IRWD is managing the design development in close collaboration with the DON. The design and construction of the Well ET-1 facilities will be fully funded by IRWD’s pollution insurance policy. Staff anticipates that the design documents for these facilities will be complete in January 2022. Well ET-1 will be advertised for construction bids upon final approval from the DON, which is expected in the next few months. Construction of the PFAS removal facilities at Well ET-1 is anticipated to be completed by Spring 2023.

PFAS Treatment Facilities at the SGU:

The existing SGU treatment facility provides treatment for 43 DON extraction wells located within the boundary of the former MCAS El Toro site (also shown on Exhibit “A”) that contain elevated levels of VOCs. The existing treatment system consists of a packed-tower air stripper and vapor phase granular activated carbon (GAC) adsorbers. The facility is capable of treating a maximum flow of 550 gpm. Treated water from the facility is pumped into the South Irvine Brine Line, which conveys the water to the Los Alisos Water Recycling Plant, where the treated water is conveyed to the SOCWA ocean outfall for disposal.

In recent years, elevated levels of PFAS compounds have been detected at SGU, which cannot be removed by the existing treatment system. To effectively remove both VOCs and PFAS compounds from the SGU influent water, the existing treatment system will be replaced with a liquid phase GAC treatment system, similar to the improvements currently being designed for Well ET-1.

In accordance with the 2001 Settlement Agreement, IRWD has maintained a \$20,000,000 pollution insurance policy to reasonably cover risks associated with the facilities included in the 2001 Settlement Agreement. Staff submitted a claim to the insurance carrier to cover the cost associated with implementing modifications at SGU to incorporate PFAS treatment. The insurance carrier accepted the claim, so all costs associated with the design, construction, and implementation of PFAS treatment facilities at SGU will be reimbursed by the insurance carrier. The insurance policy carries a \$250,000 deductible, but that deductible has already been satisfied through the ongoing work associated with implementing PFAS treatment improvements at Well ET-1.

In late 2020, staff contracted with Tetra Tech to identify and evaluate various treatment systems that would be capable of effectively removing both PFAS and VOCs from the water produced at Well ET-1, which also has significant concentrations of PFAS. The evaluation included analysis of existing water quality parameters, finished water quality goals, pretreatment requirements, and evaluation of media selection options including GAC and ion exchange. The evaluation concluded with a recommendation to replace the existing air stripper and vapor phase GAC treatment systems with a liquid phase GAC treatment system, which would effectively remove both VOCs and PFAS compounds. The recommended improvements at Well ET-1 will also be incorporated at SGU since both facilities currently contain the same vapor phase GAC adsorbers for VOCs removal.

In parallel with the Tetra Tech evaluation described above, staff directed Jacobs Engineering Group to conduct bench-scale treatability testing of various adsorbent products capable of effectively removing PFAS compounds. The bench testing program consisted of a series of rapid small-scale column tests for each of the adsorbent products, which can simulate months to years of full-scale operations in a relatively short period of time. This reduces the time for testing, the amount of water required, and the waste produced. The testing has been completed, and Jacobs Engineering identified the Calgon F400 GAC media as the highest-performing media, which is the same recommendation that was made for the media proposed at Well ET-1.

For the past several years, staff has coordinated closely with Orange County Water District (OCWD), DON, and the Department of Justice to develop ways of addressing the PFAS compounds in the wells. All parties have been actively involved in developing solutions and are supportive of the implementation of the proposed treatment system that will address both PFAS compounds and VOCs. Staff will continue to coordinate closely with all parties as the implementation of the proposed improvements progresses.

SGU PFAS & VOCs Removal Facilities Design Consultant Selection:

Staff requested a proposal from Tetra Tech for engineering design services for the proposed treatment system at the SGU. In addition to developing the design of the GAC treatment system at Well ET-1, Tetra Tech was also the design engineer for the existing treatment system at SGU, has extensive knowledge of the existing site, has performed several recent similar PFAS treatment improvement projects for OCWD and other local agencies, and is best suited to progress the design effort quickly and efficiently. Tetra Tech's proposal is provided as Exhibit "B" and includes scope for removal of the existing treatment system and design of the proposed treatment system and other ancillary improvements to existing infrastructure that are needed to support the proposed treatment system. Staff confirmed that the insurance carrier does not require multiple proposals and that IRWD can select a design engineer of its choice.

Staff reviewed Tetra Tech's scope of work and fee and recommends that the Board authorize the General Manager to execute a Professional Services Agreement with Tetra Tech in the amount of \$348,000 for engineering design services for the SGU PFAS Treatment System.

SGU PFAS & VOCs Removal Facilities Anticipated Schedule:

The project is anticipated to be completed in accordance with the following schedule milestones:

Design Notice of Award	December 13, 2021 (subject to Board approval)
Kick-off Meeting	January 2022
90% Design Submittal	April 2022
100% Design Submittal	June 2022
Plans Approved	July 2022
Bid Opening	August 2022
Construction Notice of Award	September 2022
Construction Completion	August 2023

FISCAL IMPACTS:

All three projects are included in the FY 2021-22 Capital Budget and the existing budgets are sufficient. The SGU PFAS Treatment System, Project 11834, and Well ET-1 Treatment System, Project 11171, will be funded through insurance reimbursement. The Well OPA-1 Treatment System, Project 11720, will be funded by the OCWD.

ENVIRONMENTAL COMPLIANCE:

These projects are subject to the California Environmental Quality Act (CEQA). In conformance with the California Code of Regulations Title 14, Chapter 3, Section 15004, the appropriate environmental document will be prepared when “meaningful information” becomes available for the SGU and Well ET-1 Treatment System projects. It is expected that preliminary analysis will lead to the preparation of a Notice of Exemption. For the OPA-1 project, section 15164 of the State CEQA Guidelines provides for the preparation of an addendum to a previously certified MND by a lead agency or a responsible agency if some changes or additions to the project are necessary but none of the conditions described in CEQA calling for preparation of a subsequent MND have occurred. Based on the information and analysis presented in Addendum No. 1, the Determination section of the Addendum set forth the proposed determinations by IRWD that none of such conditions occurred and therefore, IRWD’s Board of Directors approved Addendum No. 1 on September 27, 2021. Staff filed a Notice of Determination with the Orange County Clerk-Recorder and the State Clearinghouse on September 28, 2021.

COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on December 6, 2021.

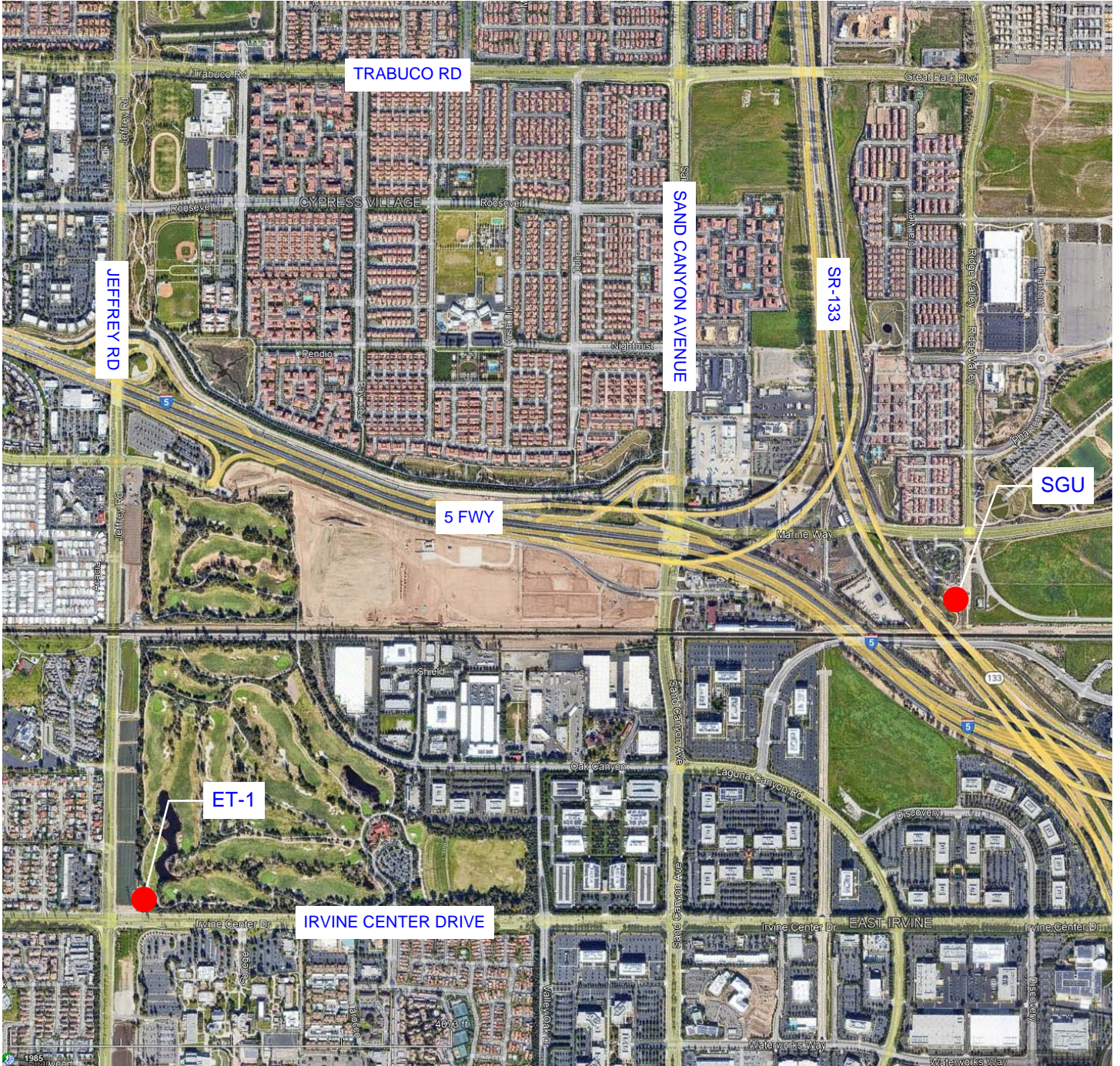
RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE A PROFESSIONAL SERVICES AGREEMENT WITH TETRA TECH IN THE AMOUNT OF \$348,000 FOR ENGINEERING DESIGN SERVICES FOR THE SGU PFAS TREATMENT SYSTEM, PROJECT 11834.

LIST OF EXHIBITS:

Exhibit “A” – Location Map for ET-1 and SGU Facilities
Exhibit “B” – Tetra Tech Scope of Work and Fee Proposal

EXHIBIT "A"
LOCATION MAP
FOR ET-1 AND SGU FACILITIES



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November 12, 2021

Mr. Richard K. Mori, PE
Engineering Manager – Capital Projects
Irvine Ranch Water District
15600 Sand Canyon Avenue
Irvine, CA 92618

**Reference: Proposal to Provide Design Services for Shallow Groundwater Unit (SGU)
PFAS Water Treatment Plant**

Dear Mr. Mori:

Thank you for providing Tetra Tech with the opportunity to submit our proposal for design of the SGU PFAS Water Treatment Plant project. We plan to use the same experienced, local team of water quality experts and design engineers currently completing the Well ET-1 PFAS project. Our team is very familiar with the requirements of these types of projects. The team has recently completed the design on three similar PFAS projects for Orange County Water District.

Our team will work closely with the Irvine Ranch Water District (IRWD) throughout the design to ensure that we provide detailed design drawings and contract documents. As you know our team is very familiar with the SGU site from our past design projects.

This proposal includes information on the following:

- Scope of Work
- Qualifications
- Project Team
- Drawing Sheet Count
- Schedule
- Price Proposal

Our team is available to begin work on the project immediately upon receipt of your authorization to proceed. As outlined in our schedule we will have the project designed and ready to bid within 6 months of receiving your notice to proceed.

A detailed breakdown of tasks, labor hours and expenses are also included. Tetra Tech will provide the services listed in our Scope of Work for a not to exceed fee of \$348,000.

If you have any questions regarding our proposal, please feel free to contact us.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Steve Tedesco', written over a blue line.

Steve Tedesco, PE
Senior Vice President

SDT/de

M:\Marketing\Proposals\FY 2021\IRWD_SGU Design

SCOPE OF WORK

Tetra Tech proposes to provide the following Scope of Work for the SGU PFAS Water Treatment Plant Design based on the information provided by IRWD.

All work performed on the project will conform to the IRWD standards and requirements including but not limited to the following: IRWD Project Manual; IRWD Construction Manual; and IRWD Electrical, Instrumentation, and Control (I&C) Design Standards.

1.0 Design

1.1 Project Management

Tetra Tech will conduct project management activities to ensure adherence to scope, schedule, and budget; promote efficient communication between Tetra Tech, IRWD, and others as required; and implement an effective quality assurance/quality control (QA/QC) program.

- 1.1.1 Site Survey – Tetra Tech will perform a topographic survey of the treatment plant site and the domestic water pipeline that will be designed from Marine Way connection to the plant. The topographic survey will collect all site features as well as surface utilities within the project area extending to the far side of the street. Survey will identify or set onsite horizontal and vertical control points to assist during the construction phase of the project. The survey will also include locating the existing IRWD water line easement and identifying any obstructions in the easement.
- 1.1.2 Geotechnical Report – Our geotechnical engineer will review the existing previously completed geotechnical report for the site. They will then drill, sample and log one hollow-stem auger boring at the site to a depth of 20 to 25 feet below existing grade or auger refusal, whichever is shallower. Boring log and laboratory testing will be reviewed, and recommendations provided for the following:
 - 1.1.2.1 Site conditions
 - 1.1.2.2 Geologic hazards
 - 1.1.2.3 Seismicity per 2016 California Building Code
 - 1.1.2.4 Corrosivity of soil
 - 1.1.2.5 Foundation design parameters
 - 1.1.2.6 Lateral earth pressures
 - 1.1.2.7 Pipe installation
 - 1.1.2.8 Construction considerations
- 1.1.3 Quality Control/Quality Assurance (QA/QC) Plan – Tetra Tech will prepare a job specific QA/QC Plan for the project. It will include the staff responsible for QA/QC along with the method of performing and documentation.
- 1.1.4 Water Quality Analysis – Our water quality expert will review the water quality data provided and determine the design parameters required for pretreatment, media selection and backwashing requirements. We will also incorporate the results of the RSSCT testing being provided by Jacobs into our design criteria. A memorandum

explaining our analysis of the Jacobs results and our recommendations for incorporating them into our design will be provided for IRWD review.

- 1.1.5 Preliminary Site Layouts and Sizing – Our team will provide preliminary design layouts and equipment sizing for the project. The SGU facility will be sized for a maximum flow of 550 GPM. We will review the existing influent pumps to confirm if they are sized adequately for the new treatment plant and recommend upsizing if required.
- 1.1.6 Meetings – We have included a total of ten meetings during the design phase of the project including: Kickoff Meeting, Review Meeting at 60%, 90% and 100% plus six-monthly status review meeting.
- 1.1.7 Preparation of Project Status Reports – Tetra Tech will prepare weekly and monthly status reports. Each weekly status report shall be submitted on Monday and shall consist of a brief (one to two paragraphs) e-mail summarizing the activities completed the previous week, the activities planned for the upcoming week, and critical decisions that need to be made. Each monthly status report shall be submitted along with the billing invoice for that month and shall provide more detail, summarizing the work completed and reviewing work status relative to budget and schedule. The project schedule shall also be updated monthly for inclusion in the monthly status report.
- 1.2 Design Drawings – Tetra Tech will prepare detailed construction drawings for each set of Contract Documents in the latest version of AutoCAD and using NCS V4.0 layering standards, on 22-inch x 34-inch sheets utilizing IRWD's standard border template. Separate sheets with sheet index/location map/legend, general notes, index map, construction notes, phasing, and detail connections will be included. Construction notes will be used (callouts on the plans are not allowed) on all construction drawings. Existing IRWD utilities will be identified on the plan view by as-built plan set number with the pipeline material and IRWD pressure zone labeled. The index map will include sheet legend, final alignment, valve locations, surrounding streets, and significant project site locations. Construction plans will be prepared using the NAVD 88 and NAD 83 survey standards.
 - 1.2.1 Design 60% Plans – Preliminary design level drawings will be prepared at approximately 60% complete level including:
 - 1.2.1.1 General (3 sheets)
 - 1.2.1.2 Civil and Demolition (6 sheets)
 - 1.2.1.3 Mechanical Process (6 sheets)
 - 1.2.1.4 Structural (4 sheets)
 - 1.2.1.5 Electrical (6 sheets)
 - 1.2.1.6 Instrumentation (4 sheets)
 - 1.2.1.7 Traffic Control Plans (3 sheets)
 - 1.2.2 Draft Specifications – We will provide a Draft set of project specifications for review by IRWD. Draft Specifications at 60% will include Technical Specifications only.
- 1.3 90% Design – Tetra Tech will prepare and submit a 90% level design and specifications for the project including:
 - 1.3.1 Address District comments on 60% Design.

- 1.3.2 Design 90% Plans – Provide the following plans at a 90% level:
 - 1.3.2.1 General (6 sheets)
 - 1.3.2.2 Civil and Demolition (11 sheets)
 - 1.3.2.3 Mechanical/Process (9 sheets)
 - 1.3.2.4 Structural (7 sheets)
 - 1.3.2.5 Electrical (6 sheets)
 - 1.3.2.6 Instrumentation (4 sheets)
 - 1.3.2.7 Traffic Control (3 sheets)
- 1.3.3 Specifications 90% – We will provide a 90% complete level of specifications for the project including Technical Specification, Special Provisions, Bid Descriptions and Bid Forms.
- 1.3.4 Cost Estimate 90% – We will provide a cost estimate based on the 90% plans and specifications. We will also provide an analysis of costs to justify the amount of contract liquidated damages.
- 1.4 Final Design – Tetra Tech will prepare and submit a Final Design and specifications for the project including:
 - 1.4.1 Address comments on 90% Design.
 - 1.4.2 Final Design Plans – Provide the following plans at a 100% level:
 - 1.4.2.1 General (6 sheets)
 - 1.4.2.2 Civil and Demolition (11 sheets)
 - 1.4.2.3 Mechanical/Process (9 sheets)
 - 1.4.2.4 Structural (7 sheets)
 - 1.4.2.5 Electrical (6 sheets)
 - 1.4.2.6 Instrumentation (4 sheets)
 - 1.4.2.7 Traffic Control (3 sheets)
 - 1.4.3 Specifications – We will provide a 100% complete Technical Specifications, Special Provisions, Bid Descriptions and Bid Forms for the project.
 - 1.4.4 Final Cost Estimate – We will provide a cost estimate based on the Final Design plans and specifications.

2.0 Additional Services

- 2.1 Demolition of Existing Facilities – Tetra Tech will provide a summary of onsite facilities that are recommended for demolition that may interfere with the proposed locations of any new facilities.
- 2.2 Project Schedule – Tetra Tech will prepare a project schedule which includes detailed schedules for both design and construction activities. The schedule will include all critical factors impacting the project schedule including implementation, permitting, and coordination activities to ensure that the project is completed in accordance with the proposed schedule. The schedule shall be prepared in Microsoft Project and submitted with the 90% and 100% design deliverables.

- 2.3 Additional Facility Evaluations – IRWD anticipates that through a review of background information and the execution of the work, additional onsite facilities will need to be reviewed and evaluated. We have budgeted \$15,000 for evaluation of additional facilities located at the site as requested by IRWD. Work under this task will proceed only as authorized by IRWD.
- 2.4 Permitting and Easement Support – IRWD anticipates that through a review of background information and the execution of the work, additional permits and/or easement may be required. We have budgeted \$10,000 for evaluation of additional permits and/or easements as requested by IRWD. Work under this task will proceed only as authorized by IRWD.
- 2.5 CEQA Documentation – IRWD will hire a CEQA consultant separately from this contract to prepare the CEQA documentation for this Project. IRWD anticipates the preparation of a Mitigated Negative Declaration or Notice of Exemption. Tetra Tech may need to review portions of the environmental document, prepare exhibits, attend meetings, and/or provide project specific information. We have budgeted \$5,000 for supporting IRWD and the CEQA consultant through the CEQA documentation process.
- 2.6 Obtain City of Irvine Encroachment Permit – Tetra Tech will submit pipeline plans and traffic control plans to the City of Irvine for review. We will address all City comments and process a final permit with the City. We have included a City plan check fee of \$1,500 and a City permit/inspection fee of \$2,000 in our price proposal.

3.0 Bid Phase Services

During the bidding period, Tetra Tech will assist with providing information and clarification of bid documents to prospective bidders. This shall include the preparation of up to three addenda including revisions to the design plans and specifications and assistance with addressing bidder questions. We have budgeted the following hours for these tasks:

- 3.1 Plan Revisions – Ten hours of appropriate staff time for plan revisions to the construction drawings.
- 3.2 Specification Revisions – Ten hours of appropriate staff time for revisions or additions to the project specifications.
- 3.3 Bidder Questions – Ten hours of appropriate staff time to address and respond to bidder questions.

QUALIFICATIONS

Tetra Tech offers a full range of professional services related to groundwater contaminant characterization and remediation. We have more than 50 years of experience in the groundwater field. Our extensive groundwater knowledge covers all phases of concern, including site investigation and characterization, testing, remedial engineering, regulatory support, treatment facility design, construction management, operation, and maintenance. This section summarizes our experience on relevant projects in which proposed team members have participated on. The following project descriptions demonstrate that our team members have the experience to successfully implement the proposed project:

NATIONWIDE PFAS EXPERIENCE MATRIX

PROJECT/LOCATION	CLIENT TYPE
Drinking Water and Groundwater PFOA/PFOS at Former Pease Air Force Base, NH	Government
Nationwide PFOS and PFOA ARNG owned/operated drinking water systems, Nationwide	Government
PFAS Groundwater Testing, City of Cape Canaveral, FL	Municipal
Muskogee Mill Water PFAS Sampling, OK	Industrial
Facility Wide PFAS PA/SI, Bethpage, NY	Government
Site Investigation for PFAS Contamination, Brunswick, ME	Government
Swanson PFAS Engineering Investigation, Georgetown, Washington, D.C.	Industrial
On-Site Perfluoroalkyl Substances Investigation, Former Naval Air Station, Cecil Field, FL	Government
Land use control management, real estate support and PFAS, CNC Charleston, SC	Government
Owasso Wastewater PFAS Assessment, MI	Industrial
NAS Corpus Christi PFAS PA/SI, Corpus Christi, TX	Government
PFAS Treatment System Design, Wallops Flight Facility, VA	Government
PFAS Excavation Dewatering Fluids Treatment, Kennedy Space Center, FL	Government
PFAS Site Investigation, Kalamazoo, MI	Industrial
Martha's Vineyard/PFAS MCP Services, Marlborough, MA	Municipal
Tank Farms Groundwater PFAS Investigations (39 Wells), Newport, RI	Government

LOCAL TREATMENT PLANT EXPERIENCE MATRIX (STUDY, DESIGN & COST ESTIMATING)

PROJECT/LOCATION	CAPACITY (MGD)	CONTAMINANT REMOVAL	TREATMENT
Serrano Water PFAS WTP, Villa Park, CA	4.0	PFOA, PFOS	IX
Kimberley 1A PFAS WTP, Fullerton, CA	4.3	PFOA, PFOS	IX
Fullerton Main Plant, Fullerton, CA	12.0	PFOA, PFOS, TCE	GAC
YLWD Headquarters Plant, Placentia, CA	25.0	PFOA, PFOS	IX
PFAS Study for 5 Wells, Downey, CA	3.0 to 4.5	PFOA, PFOS	IX
Well ET-1 PFAS Study & Design, Irvine, CA	1.4 to 4.5	PFOA, PFAS, TCE	GAC
Well #15, Huntington Park, CA	2.0	TCE	GAC
Well #9 WTP, Signal Hill, CA	2.6	Color, TOC, Benzene	NF, GAC
MTBE WTP, San Juan Capistrano, CA	5.3	MTBE	GAC
Well #9 WTP, Signal Hill, CA	2.6	Color, TOC, Benzene	NF, GAC
Richardson WTP, Loma Linda, CA	6.9	TCE, Perchlorate	GAC, IX
Tippecanoe Final Expansion, Redlands, CA	3.5	TCE, Perchlorate	GAC, IX
Burbank Operable Unit, Burbank, CA	13.0	TCE, PCE, 1,2,3-TCP, 1, 4-Dioxane	GAC, UVAOP

Legend: GAC – Granular Activated Carbon IX – Ion Exchange UVAOP – Ultraviolet Light Advanced Oxidation Process

OCWD PFAS On-Call Design Contract

ORANGE COUNTY, CALIFORNIA



owner:

Orange County Water District
Chris Olsen, PE
714.378.3232

schedule:

2020 - 2021 (Design)

value:

\$30M (construction)

key staff:

Steve Tedesco, PE, BCEE
Project Manager

Tom Epperson, PE
QA/QC

James Christopher, PE, BCEE
QA/QC

Kara Buttacavoli, PE
Project Team Lead

Amanda Taylor, PE
Process Engineer

Crisna Raymond, PE
Project Engineer

Victor Ramirez, PE, SE
Structural Engineer

Mazen Kassar, PE
Electrical Engineer

Nicole Han, PE I&C
Engineer

The OCWD selected Tetra Tech as one of the Engineering Firms to design PFAS Systems for their groundwater producers. Tetra Tech is currently working on the following four projects:

- ▶ **Serrano Water District Well #5 and #9** (Completed Design) – This project consists of a 3,000 GPM IX System with a bag filter pre-treatment, 3,000 GPM Booster Pump Station and new chemical feed system for disinfection. Estimated Const. Cost - \$6.2M.
- ▶ **Kimberley Well 1A** (Completed Design) – Located on a very small site with a single well this facility is designed to produce 3,000 GPM using an IX System with a bag filter pre-treatment and new chemical feed system for disinfection. Estimated Const. Cost - \$3.7M.
- ▶ **Fullerton Main Plant** – The Fullerton Main Plant will treat six (6) onsite wells with a total capacity of 10,100 GPM. PFOS, PFOA and VOCs will be removed using 6 to 12 ft diameter, 40,000 lb. GAC vessels that will discharge into an existing forebay then pumped into the distribution system. The remaining wells will be treated with an IX system consisting of 8 vessels and bag filters for pre-treatment. Estimated Const. Cost - \$26.5M.
- ▶ **Yorba Linda Water District Headquarters Plant** (Completed Design) – This system will treat water from 10 wells with a total capacity of 17,400 GPM. An IX System consisting of 11 pairs of Lead/ Lag Vessels (22 vessels total), bag filter pre-treatment, Booster Pump Station, and new Onsite Generation System for chlorine disinfection. In order to get the system on the existing site an extensive analysis of the site improvements was completed. Estimated Const. Cost - \$32.5M.

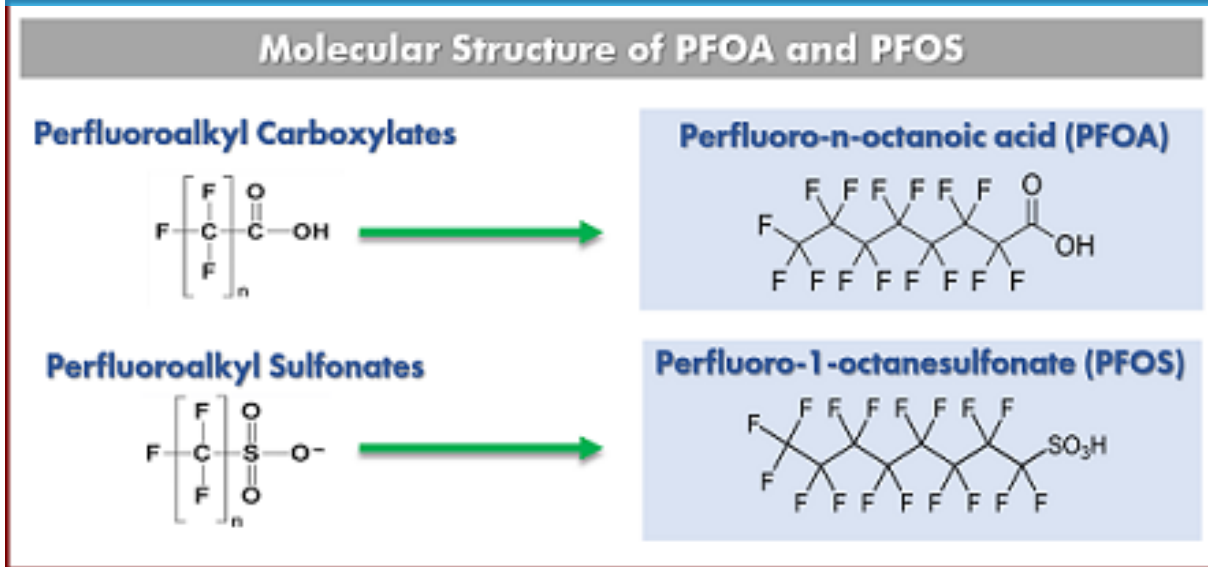
The Tetra Tech team prepared the Engineer's Report and Operating Plan for the State of California Division of Drinking Water (DDW) for each of the projects.

Innovation

- *Performed detailed operational analysis of IX and GAC usage from both RSCCT and Pilot Data.*
- *Used early submittal process to obtain DDW approvals in less than 5 months from start of the design.*
- *Performed detailed wells analysis to determine how to maximize well production after adding IX and GAC systems.*

PFAS Study for Five Wells

DOWNEY, CALIFORNIA



owner:
 City of Downey
 Dan Mueller, PE
 562.904.7110

schedule:
 2020 - 2021

value:
 \$4M (construction)

key staff:
 Steve Tedesco, PE, BCEE
 Principal in Charge
 Kara Buttacavoli, PE
 Project Engineer
 Amanda Taylor, PE
 Process Engineer
 Crisna Raymond, PE
 Project Engineer
 Victor Ramirez, PE, SE
 Structural Engineer
 Eric Yuen, PE, SE
 Structural Engineer
 Mazen Kassar, PE
 Electrical Engineer
 Nicole Han, PE
 Electrical Engineer

The City of Downey found that they had five existing groundwater wells in their system that had PFOA and PFAS higher than the new California Response Levels (RL) set in February 2020. Tetra Tech was hired to review perform a study to determine the best means for the City to continue to operate the wells.

Alternatives were analyzed including isolating certain zones in the wells that contained PFAS, blending PFAS contaminated water with other City well water, using IX or GAC wellhead treatment and/or piping PFAS contaminated water to a central location for treatment.

The scope of work of the project includes:

- ▶ Analyze Project Water Quality
- ▶ Review Well Screen Data to determine if well modifications can solve the PFAS issue
- ▶ Develop options for treating the PFAS at the Wellhead
- ▶ Develop option for treating PFAS at a Central Location
- ▶ Determine if IX or GAC treatment should be used
- ▶ Develop capital and operations cost estimates

Innovation

- *Well sites are within a highly developed urban area.*
- *All existing well sites are on very small sites.*
- *Detailed analysis of Capital and Operating Costs.*
- *Study used to supplement funding application.*

Well ET-1 PFAS Study & Design

IRVINE, CALIFORNIA



owner:

Irvine Ranch Water District
Rich Mori, PE
949.453.5571

schedule:

2020 - 2021

value:

\$4M (construction)

key staff:

Steve Tedesco, PE, BCEE
Principal in Charge

Kara Buttacavoli, PE
Project Engineer

Amanda Taylor, PE
Process Engineer

Victor Ramirez, PE, SE
Structural Engineer

Mazen Kassir, PE
Electrical Engineer

ET-1 was developed to increase utilization of the Irvine Subbasin through recovery and treatment of VOC- impaired, poor-quality groundwater. The project cleans up the contaminated VOCs, with the treated water used for non- potable purposes. Water extracted from inside the VOC plume is treated using granular activated carbon and air stripping technologies. The scope of work of the project includes:

- ▶ Analyze Project Water Quality
- ▶ Develop three options for treating the PFAS discovered at ET-1
- ▶ Develop three option to include wells ET-1 and 78 into the project if PFAS is found at those wells
- ▶ Determine if IX or GAC treatment should be used
- ▶ Develop capital and operations cost
- ▶ Prepare Final Design, Schedule, and Cost Estimate

Innovation

- *Site with VOCs and very High PFAS and PFOA levels.*
- *Existing Operating Site with small footprint.*
- *Treated water will be used in the non-potable distribution system for irrigation and industrial uses.*

Well No. 15 Water Treatment System

HUNTINGTON PARK, CALIFORNIA



owner/operator:

Water Replenishment District
of Southern California
Charlene King
562.275.4252

schedule:

2018 - 2019

value:

\$1.1M (construction)

role:

Lead Designer and
Engineer of Record

key staff:

Steve Tedesco, PE, BCEE
Project Manager

Corey Hess, PE
Civil Engineer

Mazen Kassar, PE
Electrical Engineer

Victor Ramirez, PE, SE
Structural Engineer

Nicole Han, PE
I&C Engineer

The City of Huntington Park's Well 15 was drilled in 1954 at a depth of 1,582 feet and design capacity of 1,400 gpm. The current capacity is 1,050 gpm. Since 1986, this well has been affected with elevated concentrations of trichloroethylene (TCE). In 1994, a treatment system was installed using six low profile air strippers, which were no longer effective.

Tetra Tech was hired by the Water Replenishment District of Southern California to provide a preliminary design report, final design, and construction engineering services to upgrade the Wellhead Treatment system at Huntington Park Well 15. Design included removing the existing air stripping units at Well 15 and replacing with the liquid phase granular activated carbon (LPGAC) treatment system to remove contamination, particularly VOCs from the well. Tetra Tech worked closely with GAC suppliers to incorporate the new LPGAC system into the existing well, pumping and storage facilities onsite. In addition, coordination for deliveries of LPGAC was also incorporated into the design.

Innovation

- Tetra Tech worked closely with the City and WRD to coordinate work on a very small site.
- Special design consideration was required for GAC delivery, backwash and well purge water discharge.
- Tetra Tech prepared all reports and permit applications for the DDW approvals.

Well No. 9 NF & GAC Plant

SIGNAL HILL, CALIFORNIA



owner:

City of Signal Hill
Cecil Looney
562.989.7253

schedule:

2010 - 2011

value:

\$6.8M (construction)

role:

Lead Design Report Author

key staff:

Steve Tedesco, PE, BCEE
Project Manager

Kara Buttacavoli, PE
Project Engineer

Beverly Encina, PE
Design Engineer

Crisna Raymond, PE
Resident Engineer

Mazen Kassar, PE
Electrical Engineer

Tetra Tech was contracted by City of Signal Hill to prepare a preliminary design report to treat water with high color from Well No. 9. A membrane treatment system was proposed to be used to remove color and organics from the groundwater.

The membrane system was designed to treat well water containing low salinity (less than 400 ppm TDS) and high level of color (over 50 color units). The objective of the treatment was to produce potable water with color below 5 color units without significant reduction of concentration of dissolved ions.

The NF membrane system was designed for operation at a recovery rate of 98%. Based on operation of similar units at other locations and consultations with the membrane manufacturer, operation at this level of high recovery rate was possible using a three stage configuration. The feasibility study also analyzed several different treatment capacities from 1,200 gpm to the full well capacity of 2,000 gpm. The City constructed the NF plant through a design-build project delivery method. Tetra Tech prepared the 30% design, procurement documents, and provide construction management services.

Innovation

- *During startup benzene was detected in the feed water. Tetra Tech and contractor Pascal + Ludwig then designed and built a GAC treatment system to remove the benzene, saving the city close to \$300,000. The GAC system was operational within 4 months of the Notice-to-Proceed with design.*
- *City of Signal Hill being a relatively small community needed a feasibility study that could provide an accurate cost for both capital and operational costs. Tetra Tech was able to use its past experience on RO and NF projects to develop accurate cost estimates. The costs of the new NF plant were then compared to the costs for other available water sources. These detailed cost estimates were also used to help obtain funding for the project from the State of California.*

MTBE Treatment Plant

SAN JUAN CAPISTRANO, CALIFORNIA



owner/operator:

City of San Juan Capistrano
Eric Bauman
949.487.4312

schedule:

2011 - 2012

value:

\$2.8M (design-build)

key staff:

Steve Tedesco, PE, BCEE
Project Manager

Steve Ellis, PE, BCEE
QA/QC Manager

Victor Ramirez, PE, SE
Structural Engineer

Beverly Encina, PE
Design Engineer

The Tetra Tech designed and built this \$2.8 million modification to the Ground Water Treatment Plant to remove MTBE found in the feed water. The 5.3 MGD system includes eight 10-foot diameter granular activated carbon (GAC) vessels with feed, backwash, and effluent piping.

Located on a very constructed site, the team was challenged to find a way to design and build the facility while keeping the existing plant in service. As shown in the above picture, a concrete slab was completed first followed by installation of vessels. Due to space constraints each vessel had to be “walked” into place with a movable crane in order to complete installation. Other work on the project included:

- ▶ Relocation of Cartridge Filter
- ▶ Piping Modifications
- ▶ Replacement of Greensand Media in Fe/Mn Filters
- ▶ Obtaining Division of Drinking Water Permit
- ▶ Programming and SCADA Upgrades
- ▶ Obtaining Division of Drinking Water approvals

Innovation

- *GAC System added to an operational plant to remove MTBE.*
- *Phased construction approach to build on a constricted job site.*
- *Upgrades to existing Brackish water pre-treatment system.*

Tippecanoe Final Expansion

REDLANDS, CALIFORNIA



owner/operator:

Lockheed Martin Corporation /
City of Redlands, CA
Tom Patterson
949.553.8417

schedule:

2011 - 2012

value:

\$2.8M (design-build)

key staff:

Steve Tedesco, PE, BCEE
Project Manager

Steve Ellis, PE, BCEE
QA/QC Manager

Victor Ramirez, PE, SE
Structural Engineer

Beverly Encina, PE
Design Engineer

Tetra Tech prepared final design documents and acted as the general contractor to construct the Tippecanoe Regional Groundwater Treatment Facility using a Design-Build delivery process. Pascal & Ludwig constructed the facility under a subcontractor agreement. The completed facility utilizes granular activated carbon (GAC) to remove trichloroethylene (TCE) and Ion Exchange (IX) to remove perchlorate. Groundwater is pumped from three wells to the site where it is metered prior to treatment. The GAC units consist of a battery of 12 units, with each battery consisting of two (2) 20,000-pound carbon vessels. The vessel piping and valving are arranged so that each battery of carbon vessels can be operated either in series or in parallel. Treated water is discharged directly into the potable water system. The California Department of Public Health reviewed and approved the engineering design and monitoring provisions.

Tetra Tech constructed the expansion of the existing pump station that boosts water through the facility. The total pump station capacity is 10,000 gallons per minute.

Innovation

- *The backwash system utilizes treated water that has been stored in a 30,000-gallon steel holding tank. Backwash water is pumped from the tank and to the carbon vessels. After going through the vessels in an up flow direction, the waste backwash passes through a series of 25 micron, then 10 micron bag filters to remove carbon fines and returned to the holding tank for re-treatment through the carbon vessels.*

Richardson Water Treatment Plant

LOMA LINDA, CALIFORNIA



owner/operator:

Lockheed Martin Corporation /
City of Loma Linda, CA
Tom Patterson
949.553.8417

schedule:

2008 - 2010

value:

\$8M (construction)

key staff:

Steve Tedesco, PE, BCEE
Project Manager

Kara Buttacavoli, PE
Process Engineer

Victor Ramirez, PE, SE
Structural Engineer

Crisna Raymond, PE
Design Engineer

Mazen Kassar, PE
Electrical Engineer

The Richardson Water Treatment Plant utilizes both ion exchange (IX) and granular activated carbon (GAC) processes. The process removes VOCs, TCE, PCE, and perchlorate, from the supplied well water. Two wells supply 4,800 gpm to the process. The plant includes pre- and post-treatment filtration, an on-site product storage tank, an on-site backwash waste tank and a product water booster station. Backwash waste is allowed to settle in the tank before it is pumped to the head of the plant to be treated. Purge water from well starts are treated by a smaller 200 gpm similar system prior to discharge to the local storm drain. In addition, the project contains one on-site well and one off-site groundwater well. Project included obtaining permits from the City of San Bernardino, California Department of Drinking Water, and the Regional Water Quality Control Board. Design included mistake-proofing the design workshop required on Lockheed Martin projects.

Tetra Tech provided all design on the project and was responsible for procurement of the IX and GAC vessels. Pascal & Ludwig and Halcyon Electric were responsible for all construction efforts on the two groundwater wells.

Innovation

- *Siemens (now Evoqua) was the supplier of the IX and GAC treatment vessels. Vessel equipment and piping were pre-purchased by Tetra Tech to expedite the construction schedule. The equipment layout was designed for ease of access and operation on a relatively small site.*
- *A temporary treatment scenario was implemented to develop each of the two wells supplying the process. The project included a percolation pond to capture startup and testing water from each of the wells.*

PROJECT TEAM

Tetra Tech has assembled a local team of dedicated and experienced professionals uniquely qualified to complete your project. In order to provide the most comprehensive services possible, our team has been thoughtfully assembled to capitalize on the strengths of each team member and provide you with a team of unparalleled technical excellence. Through our past experience we fully understand how to successfully complete this type of project.

The strength of our team is that our team members have all worked on several local PFAS projects. Our experience in similar studies and in full designs will be an asset in completing this project. We have provided a biographical sketch that introduces the background and unique skill set of each of the talented key personnel of our core management team that we are committing to the project.

Project Manager, Kara Buttacavoli, PE, will serve as the Project Manager. She has recently completed the design of three other PFAS plants ranging in size from 4.0 mgd to 25.0 mgd. Kara fully understands all the tasks needed for completing this type of project. She will provide overall design direction, coordination, and technical oversight. In addition, she will make certain that the proper resources are allocated to the project to meet the desired completion schedule.

QA/QC, Steve Tedesco, PE, will provide QA/QC Management. Steve understands the SGU site and is well versed in design of groundwater treatment plants. He also worked with Kara on three recently completed PFAS plants in Orange County. He also understands local permitting and construction costs.

Civil & Mechanical Lead, Beverly Encina, PE, brings to the team over 18 years of experience in analysis, design, and construction management for various types of public works projects including, but not limited to, water treatment plants, wells, water booster pump stations, reservoirs, hydraulic analysis, storm drainage systems, and site improvement design. Beverly has worked on four PFAS water treatment plants and one PFAS well study.

Process Lead, Amanda Taylor, PE, brings to the team extensive experience in process engineering for water treatment facilities. In her 11 years of experience she has provided analysis, studies, design, and construction management for various types of public works projects including five PFAS projects, two advanced water treatment plants and numerous wellhead treatment plants for nitrates, iron, manganese, and TDS.

Structural Lead, Victor Ramirez, PE, SE, has over 39 years of structural engineering design experience with special emphasis in the design of water storage/water containment and water conveyance related structures. This includes reservoirs, water/wastewater treatment plants, booster pump stations, flow control facilities, pressure reducing stations and pipelines. Victor will be responsible for the design of all the structures, management and oversight of the structural design team, and interdisciplinary coordination.



Electrical Lead & Controls, Mazen Kassar, PE, is experienced in the electrical design of water and wastewater facilities, system studies, power distribution, emergency power supply, motor and instrumentation control. During his 29 years of experience his projects have included designing water and wastewater facilities, desalination plants, lift stations, pump stations, drinking water wells, pipelines, and odor control systems. Mazen will use this experience and his knowledge of the operation of water facilities and cost analysis to assist the team.

Our team knows firsthand that the key to our success is the people we have assigned to this project!

Team Availability

Tetra Tech is dedicating our project team shown to complete this project. Each of the team members will be assigned so they are available to meet the schedule for the design of this project. The following table shows our Project Teams’ availability, areas of responsibility of the key team members, and percentage of time key personnel will contribute to the project:

Name	Role	Areas of Responsibility	Availability	Project Need
Kara Buttacavoli, PE	Project Manager	Project Oversight, Technical Input, Quality Control, Constructability Review	40%	30%
Steve Tedesco, PE	QA/QC Manager	Coordinate, Manage and Ensure QA/QC is Completed	10%	5%
Beverly Encina, PE	Civil & Mechanical Lead	Lead Civil & Mechanical Design, Coordinate Inter-discipline Review	50%	40%
Amanda Taylor, PE	Process Lead	Lead Process Design, Prepare P&IDs, Coordinate with Electrical & Controls	50%	40%
Victor Ramirez, PE, SE	Structural Lead	Lead Structural Design	50%	40%
Mazen Kassar, PE	Electrical & Controls Lead	Lead Electrical Design	35%	25%
Mark Wilf, PhD	Water Quality Expert	Review Water Data, Determine Treatability	15%	5%

Resumes of Key Team Members can be found on the following pages.

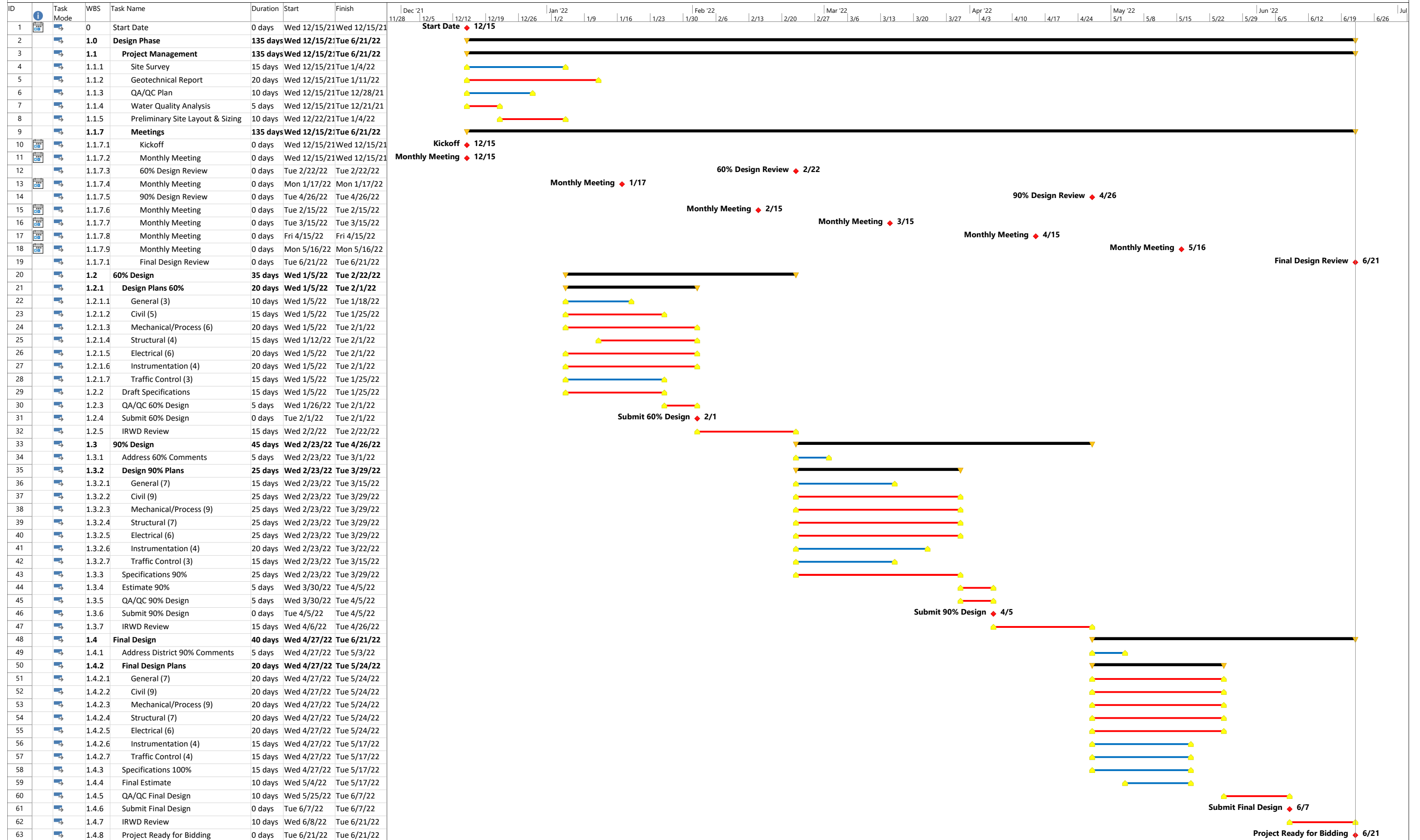
The strength of our team is demonstrated by our qualifications, experience, and prior completion of similar PFAS projects!



**IRWD - SGU PFAS Water Treatment Plant
Drawing Sheet Count**

Sequential Number	Subset Count	Sheet Number	Description	60% Design	90% Design	100% Design
				Planned	Planned	Planned
General						
1	1	G-000	Title Sheet	60%	90%	100%
2	2	G-001	Sheet Index, Vicinity Map & Location Map		90%	100%
3	3	G-002	General Notes, IRWD Notes, and Erosion Control Notes		90%	100%
4	4	G-003	Standard Drawings, Symbols, Abbreviations, & Survey Data	60%	90%	100%
5	5	G-004	Process Flow Diagram	60%	90%	100%
6	6	G-005	Horizontal Control Plan		90%	100%
Civil						
7	1	C-101	Site Demolition Plan	60%	90%	100%
8	2	C-102	Demolition Details 1	60%	90%	100%
9	3	C-103	Demolition Details 2	60%	90%	100%
10	4	C-104	Proposed Site Plan	60%	90%	100%
11	5	C-105	Yard Piping Plan		90%	100%
12	6	C-301	Yard Piping Profiles		90%	100%
13	7	C-501	Civil Details 1	60%	90%	100%
14	8	C-502	Civil Details 2		90%	100%
15	9	C-503	Connection Details		90%	100%
16	10	C-106	Pipeline Plan & Profile	60%	90%	100%
17	11	C-504	Marine Way Connection Details	60%	90%	100%
Structural						
18	1	S-001	General Structural Notes	60%	90%	100%
19	2	S-002	Special Inspection & Structural Observations	60%	90%	100%
20	3	S-101	Foundation Plan	60%	90%	100%
21	4	S-301	Sections	60%	90%	100%
22	5	S-501	Structural Details 1		90%	100%
23	6	S-502	Structural Details 2		90%	100%
24	7	S-503	Structural Details 3		90%	100%
Mechanical/Process						
25	1	M-100	Overall Process Plan	60%	90%	100%
26	2	M-101	Influent Pump Modifications Plan & Section	60%	90%	100%
27	3	M-103	GAC Vessel Process Plan	60%	90%	100%
28	4	M-301	SGU Effluent Connection Modifications	60%	90%	100%
29	5	M-302	GAC Vessel Process Sections	60%	90%	100%
30	6	M-501	Piping Sections	60%	90%	100%
31	7	M-502	Process Details 1		90%	100%
32	8	M-901	Process Details 2		90%	100%
33	9	D-502	Treatment Plant 3D Perspective		90%	100%
Electrical						
34	1	E-001	Electrical Symbols, Notes & Abbreviations	60%	90%	100%
35	2	E-101	Electrical Site Demolition Plan	60%	90%	100%
36	3	E-103	Electrical Overall Site Plan	60%	90%	100%
37	4	E-104	Vessels Electrical Plan	60%	90%	100%
38	5	E-201	Panel & Conduit Schedule	60%	90%	100%
39	6	E-301	Electrical Details	60%	90%	100%
Instrumentation						
40	1	I-001	P&ID Symbols & Abbreviations	60%	90%	100%
41	2	I-101	P&ID Existing SGU Facilities	60%	90%	100%
42	3	I-102	P&ID GAC - Train 1	60%	90%	100%
43	4	I-103	P&ID Effluent Modifications	60%	90%	100%
Traffic Control Plans						
44	1	I-001	Traffic Control Notes	60%	90%	100%
45	2	I-101	Traffic Control Plan 1	60%	90%	100%
46	3	I-102	Traffic Control Plan 2	60%	90%	100%
Total Drawing Count				33	46	46

Irvine Ranch Water District PFAS Treatment Systems Design for SGU



IRWD SGU - PFAS Water Treatment Plant

Design of 500 GPM PFAS Treatment Plant at existing SGU Site
Submitted to: Irvine Ranch Water District (Attn: Richard K. Mori, PE)

Contract Type: T&M

Project Phases / Tasks	Schedule			Work Days Off	Work Days	Total Labor Hrs	13 Resource																			
	From	Thru	Months				Project Mngt	Project Manager 2	Civil & Process	Sr Engineer 2	Sr Engineer 3	Engineer 3	Sr CAD Designer 2	Structural	Sr Engineer 3	Engineer 3	Sr CAD Designer 2	Elect & Instmt	Sr Engineer 3	Sr Engineer 2	Engineer 2	Administration	Sr Project Administrator	Traffic	Sr Engineer 2	
1.0 Design	12/15/21	05/20/22	5.0	12	100	1,804	148	264	26	580	168	40	92	130	74	140	314	40	36							
1.1 Project Management	11/15/21	05/20/22	6.0	14	119	136	40	26	12	32	-	4	8	-	4	8	-	2	-							
1.1.1 Site Survey						2	2																			
1.1.2 Geotechnical Report						2	2																			
1.1.3 QA/QC Plan						8	2		4									2								
1.1.4 Water Quality Analysis						14	2	4	4	4																
1.1.5 Preliminary Site Layouts & Sizing						70	2	12	8	24		4	8		4	8										
1.1.6 Meetings (10)						24	14	10																		
1.1.7 Project Status Reports						16	16																			
1.2 60% Design	01/06/22	02/21/22	1.5	4	29	539	23	60	-	128	48	10	28	32	28	48	104	14	16							
1.2.1 Design Plans 60%						411	13	36	-	100	48	6	12	32	20	40	88	-	16							
1.2.1.1 General (3)						10	2			8																
1.2.1.2 Civil & Demolition (5)						46	2	4		24	16															
1.2.1.3 Mechanical/Process (6)						126	2	32		68	24															
1.2.1.4 Structural (4)						52	2				6	12	32													
1.2.1.5 Electrical (6)						74	2						8		24	40										
1.2.1.6 Instrumentation (4)						77	1						12		16	48										
1.2.1.7 Traffic Control (3)						26	2			8													16			
1.2.2 Draft Technical Specifications						96	4	8		24		4	16		8	8	16	8								
1.2.3 QA/QC						20	4	12																		
1.2.4 Submit 60%						12	2	4		4								2								
1.3 90% Design	02/24/22	04/25/22	1.9	5	38	640	35	52	8	132	84	16	44	54	24	36	126	17	12							
1.3.1 Address 60% Comments						29	2	4		2	4	2	4	4	4	4	1									
1.3.2 90% Design						429	13	28	-	88	84	6	12	48	14	32	92	-	12							
1.3.2.1 General (7)						10	2			8																
1.3.2.2 Civil (9)						98	2	16		40	40															
1.3.2.3 Mechanical/Process (9)						86	2	12		40	32															
1.3.2.4 Structural (7)						68	2				6	12	48													
1.3.2.5 Electrical (6)						86	2						8		16	60										
1.3.2.6 Instrument (4)						55	1						6		16	32										
1.3.2.7 Traffic Control (3)						26	2			12													12			
1.3.3 Specifications 90%						76	4	4		16		4	16		4	16	12									
1.3.4 Estimate 90%						56	2	4		24			12			12	2									
1.3.5 QA/QC						36	12	8	8		4		4													
1.3.6 Submit 90% Design						14	2	4		2			2			2	2						281	112		
1.4 Final Design	04/28/22	06/20/22	1.7	4	34	489	34	48	6	134	36	10	12	44	18	48	84	7	8							
1.4.1 Address 90% Comments						21	2	2		4		2	4	2	4	4	1									
1.4.2 Final Design Plans						406	12	32	2	112	36	8	12	40	16	48	80	-	8							
1.4.2.1 General (6)						10	2			8																
1.4.2.2 Civil (9)						30	2	8		8	12															
1.4.2.3 Mechanical/Process (9)						138	2	24		96	16															
1.4.2.4 Structural (7)						62	2				8	12	40													
1.4.2.5 Electrical (6)						74	2						8		24	40										
1.4.2.6 Instrumentation (4)						73	1		2				8		24	40										
1.4.2.7 Traffic Control (3)						19	1			8														8		
1.4.3 Final Specifications						28	4	8		12								4								
1.4.4 Final Estimate						6	2			4																
1.4.5 Final QA/QC						20	12	4	4																	
1.4.6 Submit Final Design						8	2	2		2							2						49			
2.0 Additional Services	12/15/21	06/20/22	6.0	14	120	218	12	70	-	136	-	-	-	-	-	-	-	-	-							
2.1 Demolition of Existing Facilities						3	1			2																
2.2 Project Schedule						10	2			8																
2.3 Additional Facility Evaluations						98	4	40		54																
2.4 Permitting & Easement Support						69	2	20		47																
2.5 CEQA Documentation						34	1	10		23																
2.6 City of Irvine Encroachment Permit						4	2			2																
3.0 Bid Phase Services	06/21/22	07/30/22	1.3	3	25	30	4	8	-	18	-	-	-	-	-	-	-	-	-							
3.1 Plan Revisions (10 Hours)						10	1	2		7																
3.2 Specification Revisions (10 Hurs)						10	1	2		7																
3.3 Bidder Questions (10 Hours)						10	2	4		4																
Totals	11/15/21	07/30/22	8.3			2,052	148	264	26	580	168	40	92	130	74	140	314	40	36	0.00%	318,015	29,095	778	-	112	348,000

Price Summary / Totals	
Task Pricing Totals	348,000
Specify Add'l Fees on Setup	0
Technology Use Fee	
Total Price	348,000

Pricing by Resource							Task Pricing Totals
Labor Rate Esc.	Labor	Subs	Travel	Mat'l's & Equip	ODCs		
0.00%	318,015	29,095	778	-	112		348,000

1.0 Design	280,760	25,070	778	-	112		306,720
1.1 Project Management	24,910	25,070	448	-	-		50,428
1.1.1 Site Survey	450	7,475					7,925
1.1.2 Geotechnical Report	450	17,595					18,045
1.1.3 QA/QC Plan	1,190						1,190
1.1.4 Water Quality Analysis	2,550						2,550
1.1.5 Preliminary Site Layouts & Sizing	11,670						11,670
1.1.6 Meetings (10)	5,000		448				5,448
1.1.7 Project Status Reports	3,600						3,600
1.2 60% Design	82,685	-	-	-	-		82,685
1.2.1 Design Plans 60%	62,635	-	-	-	-		62,635
1.2.1.1 General (3)	1,450						1,450
1.2.1.2 Civil & Demolition (5)	6,590						6,590
1.2.1.3 Mechanical/Process (6)	18,470						18,470
1.2.1.4 Structural (4)	7,940						7,940
1.2.1.5 Electrical (6)	11,690						11,690
1.2.1.6 Instrumentation (4)	11,885						11,885
1.2.1.7 Traffic Control (3)	4,610						

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December 13, 2021
Prepared by: E. Lin
Submitted by: C. Clary
Approved by: Paul A. Cook



ACTION CALENDAR

FY 2020-21 COMPREHENSIVE ANNUAL FINANCIAL REPORT

SUMMARY:

IRWD's auditor Davis Farr LLP has completed its annual audit of the District's financial statements for the Fiscal Year (FY) ended June 30, 2021. As stated in its report, Davis Farr concluded that in all material aspects, the statements fairly present the District's financial position as of June 30, 2021 and conform with generally accepted accounting principles.

A draft of the Comprehensive Annual Financial Report (CAFR), including the Introductory Section, audited financial statements, accompanying auditor's report, Management's Discussion and Analysis, and Statistical Section is provided as Exhibit "A". The draft is being presented for review and comment by the Board.

BACKGROUND:

At the November Committee meeting, Davis Farr presented its required Auditor Communication pursuant to Statement on Auditing Standards 114 *The Auditor's Communication with Those Charged with Governance*. This letter, provided as Exhibit "B", reflects the auditor's understanding of key management assumptions and practices and indicates that there were no disagreements with management during the scope of the audit. The auditors have also provided a *Report on Internal Control over Financial Reporting and on Compliance and Other Matters Based on an Audit of Financial Statements Performed in Accordance with Government Auditing Standards*, provided as Exhibit "C", which states that the audit did not identify any material weakness in internal control. In addition, the report states that the result of the audit disclosed no instances of noncompliance or other matters that were required to be reported under government auditing standards.

The IRWD Comprehensive Annual Financial Report:

The FY 2020-21 CAFR is being prepared for the 18th consecutive year by IRWD. All of IRWD's previous CAFRs have won awards from the Government Finance Officers Association (GFOA), which encourages state and local governments to prepare and publish expanded financial reports in conformity with generally accepted accounting principles (GAAP) and provides awards to recognize contributions to the practice of government finance that exemplify outstanding financial management. The awards stress practical, documented work that offers leadership to the profession and promotes improved public finance. Staff will continue to produce an enhanced electronic version with key references hyperlinked throughout the document. The CAFR will be made available on IRWD's website.

FISCAL IMPACTS:

None.

ENVIRONMENTAL COMPLIANCE:

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

COMMITTEE STATUS:

This item was reviewed by the Finance and Personnel Committee on November 2, 2021.

RECOMMENDATION:

THAT THE BOARD APPROVE THE COMPREHENSIVE AUDIT REPORT FOR THE FISCAL YEAR ENDED JUNE 30, 2021.

LIST OF EXHIBITS:

Exhibit "A" – Draft FY 2020-21 Comprehensive Annual Financial Report

Exhibit "B" – SAS 114 Auditor's Communication with Those Charged with Governance from Davis Farr LLP

Exhibit "C" – Report on Internal Control over Financial Reporting and on Compliance and Other Matters Based on an Audit of Financial Statements Performed in Accordance with Government Auditing Standards from Davis Farr LLP

Committed to Water Resilience



CELEBRATING 60 YEARS



Irvine Ranch
WATER DISTRICT

Irvine Ranch Water District
Irvine, California

COMPREHENSIVE ANNUAL FINANCIAL REPORT

for fiscal year ended June 30, 2021

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Comprehensive Annual Financial Report

For fiscal year ended June 30, 2021

Irvine Ranch Water District

Irvine, California

Board of Directors

Douglas J. Reinhart, President

John B. Withers, Vice President

Steven E. LaMar

Karen McLaughlin

Peer A. Swan

General Manager

Paul A. Cook

Prepared by:

Irvine Ranch Water District

Finance Department

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Introductory Section

Irvine Ranch Water District
Fiscal Year Ended June 30, 2021

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December 13, 2021

To the Board of Directors,
Irvine Ranch Water District:

Management of the Irvine Ranch Water District (IRWD or the District) has prepared a Comprehensive Annual Financial Report of IRWD for the fiscal year ended June 30, 2021. This document, which contains a complete set of basic financial statements, is presented in conformity with generally accepted accounting principles (GAAP) and audited in accordance with generally accepted government auditing standards by a firm of licensed certified public accountants. State law requires that all special-purpose local governments publish these basic financial statements within six months of the close of the agency's fiscal year.

This report contains management's representations concerning the finances of the District. Management assumes full responsibility for the completeness and reliability of the information contained in this report. To provide a reasonable, rather than absolute, basis for making these representations, IRWD management has established a comprehensive framework of internal controls. These controls are designed to protect the District's assets from loss, theft, or misuse, and to ensure sufficiently reliable information for the preparation of the District's basic financial statements in conformity with GAAP. Because the cost of internal control should not exceed anticipated benefits, the objective is to provide reasonable, rather than absolute, assurance that the basic financial statements are free of any material misstatements. As management, we assert that this financial report is complete and reliable in all material respects.

The District's basic financial statements have been audited by Davis Farr LLP, a firm of licensed certified public accountants. The goal of the independent audit was to provide reasonable assurance that the basic financial statements of the District for the fiscal year ended June 30, 2021 were free of material misstatements. The independent audit involved examining, on a test basis, evidence supporting the amounts and disclosures in the basic financial statements, assessing the accounting principles used and significant estimates made by management, and evaluating the overall financial statement presentation. The independent auditor rendered an unmodified opinion that the District's basic financial statements for the fiscal year ended June 30, 2021 are fairly presented in conformity with GAAP. The independent auditor's report is presented as the first component of the financial section of this report.

A profile of the District is presented in this Introductory Section. In the Financial Section, Management's Discussion and Analysis (MD&A) immediately follows the independent auditor's report and provides an overview and analysis of the basic financial statements. This letter of transmittal and introduction is designed to complement the MD&A and should be read in conjunction with it.

Profile of Irvine Ranch Water District

Overview

Irvine Ranch Water District was established in 1961 as a California Water District under the provisions of the California Water Code. As a special district, IRWD focuses on four primary services - providing potable water, collecting sewage, producing and distributing recycled and other non-potable water, and implementing urban runoff source control and treatment programs.

IRWD is an independent public agency governed by a five-member, publicly elected Board of Directors. The members of the Board each have varied professional backgrounds, coupled with an average tenure for the Board members of approximately 21 years. The District is a leader in developing and implementing resource management initiatives such as water recycling, urban runoff control and treatment, water efficiency, energy management, and water banking. The District is a pioneer in financial management practices such as variable rate debt financing and long-term infrastructure replacement program development and funding.

The District serves a 181 square mile area, which includes all of the City of Irvine and portions of the cities of Tustin, Newport Beach, Costa Mesa, Orange and Lake Forest, as well as certain unincorporated areas of Orange County. Extending from the Pacific Coast to the top of the foothills of eastern Orange County, the District's region is semi-arid with a mild climate and an average annual rainfall of approximately 12 inches. The total estimated daytime population served is approximately 600,000 and includes approximately 120,000 water and 115,000 sewer service and recycled water connections. The number of service connections has increased by approximately 22% over the last ten years.

The District provides its core services to its customers by focusing on the following areas:

- *Operational Reliability* – having multiple sources of water supply, various sewage treatment alternatives, preventive maintenance programs, and emergency power capabilities to ensure reliable services.
- *Organizational Strength* – having professional staff work in close collaboration with the Board of Directors striving to exceed the expectations of our customers.
- *Long-Term Financial Planning* – ensuring sufficient funds are available to construct, operate, maintain, and replace facilities, while retaining competitive rates now and in the future.

People



Employee working in Electrical Room

The District employs approximately 405 staff who are responsible for administering daily operations and implementing strategic objectives and policies set forth by the Board. The District actively promotes the training and education of employees to increase effectiveness and retention. The average tenure of District employees is approximately 11 years.

Services

The District is functionally organized into four core service areas:

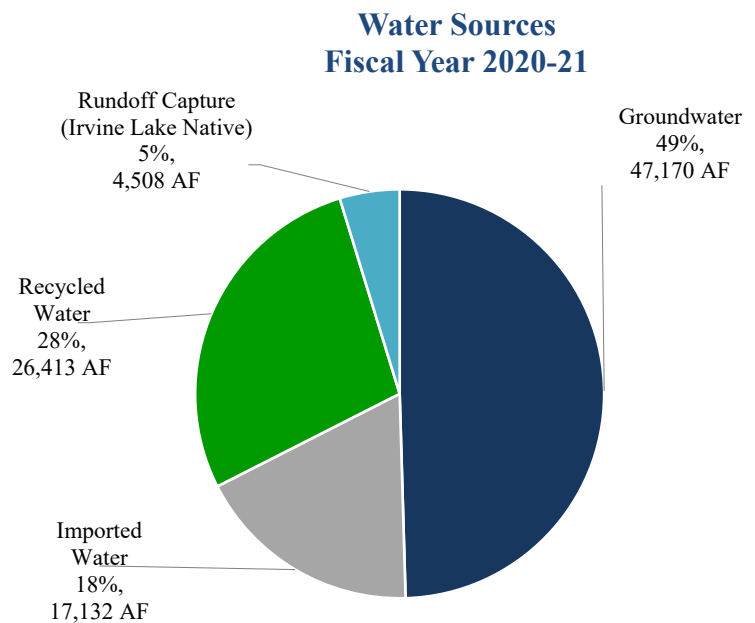
Drinking or “Potable” Water System

For many years, the District received virtually all of its drinking water from imported sources. To minimize this dependence on imported water, in the early 1980’s, the District developed a series of local wells known as the Dyer Road Wellfield to access high quality groundwater from the Orange County Groundwater Basin, managed by the Orange County Water District (OCWD).

IRWD also operates many other groundwater wells with water from some of these wells requiring treatment. In Fiscal Year (FY) 2020-21, local groundwater accounted for 49% of the District’s total water supply.

Groundwater currently is significantly less expensive, more reliable, and less energy intensive than imported water that is transported over hundreds of miles into Southern California and subsequently treated.

The District purchased 18% of its water supply in FY 2020-21 from the Municipal Water District of Orange County (MWDOC), the regions local wholesale water supplier who purchases its water from the Metropolitan Water District of Southern California. This water is imported from both the Colorado River, which is transported approximately 240 miles to Southern California, and from the Delta, from which water is transported approximately 400 miles from Northern California.



Recycled and Non-Potable Water Systems

The District treats sewage to provide water for irrigation, commercial, industrial and agricultural purposes which further reduces its reliance on the more expensive imported water and increases its system reliability. Sewage from the community is collected and recycled to California State Water Resources Control Board Title 22 standards at IRWD’s Michelson Water Recycling Plant and the Los Alisos Water Recycling Plant, which have the combined capacity to produce nearly 33.5 million gallons of tertiary recycled water per day.

Once treated, the recycled water is distributed throughout the service area and in FY 2020-21 accounted for approximately 28% of the District’s total water supply. Approximately 85% of all business and community landscaped areas (parks, school grounds, golf courses, street medians, etc.) in the District’s service area are irrigated with recycled water. The District also provides recycled water for various industrial and commercial uses. IRWD’s goal is to continue recycling its sewage flows to provide 25% to 30% of its total water supply once the District’s service area is fully developed.

The District operates a non-potable system which includes 5 wells, 5 open reservoirs and 12 tanks that store water for non-potable uses. In total, the District has approximately 4,500 acre feet of active recycled water storage capacity. IRWD has 75% ownership in Irvine Lake, a 25,000 acre-feet reservoir that can capture and store both stormwater and imported water supplies.

Sewage Collection and Treatment System

The District has an extensive network of gravity sewers, force mains, sewage lift stations, and siphons that convey sewage to two District-owned water recycling plants or to the Orange County Sanitation District (OC San). In FY 2020-21, the District treated approximately 78% of its sewage while the remainder of the sewage collected by the District was diverted to the OC San treatment facilities. In FY 2020-21, the District completed its construction of the MWRP Biosolids and Energy Recovery Facilities and the facilities became operational in August 2021. This facility enables IRWD to treat its solids generated at the Michelson Water Recycling Plant and eliminate the need to send them to OC San for treatment. The District plans to expand its treatment capacity when and if necessary to serve its growing population. This expansion is discussed in more detail in the *Major Initiatives* section of this document.

Urban Runoff Source Control and Treatment System

IRWD is statutorily authorized to control and treat urban runoff and conducts various projects and programs as part of an effort to protect water quality in the San Diego Creek watershed. In the 1990s, the District constructed wetlands at the San Joaquin Marsh where natural biological processes remove a substantial pollutant load from San Diego Creek dry weather flow before it reaches the environmentally sensitive Upper Newport Bay State Ecological Reserve. The District operates a regional urban runoff treatment network known as the Natural Treatment System (NTS). As of June 30, 2021, the NTS consists of 44 constructed wetland treatment sites located throughout the San Diego Creek Watershed and one outside of the IRWD service area with several more currently under construction. The Peters Canyon Wash diversion facilities are part of these 44 sites and pump runoff high in selenium into OC San's sewers, where it eventually, after treatment, flows to OCWD's groundwater replenishment system.



San Joaquin Marsh – American White Pelican

Infrastructure Assets

The District builds and maintains significant capital infrastructure in order to provide superior service to its customers. The table below provides key information relating to its water and sewer system assets from 2012 to 2021.

Infrastructure Assets		
	2012	2021
Potable System		
Miles of Water Line	1,490	1,976
Number of Storage Tanks	37	37
Maximum Storage Capacity (acre feet)	456	467
Number of Pumping Stations	43	39
Number of Wells	24	27
Well Production Capacity (cfs)	117	118
Water Banking Storage Capacity (acre feet)	109,600	126,000
Potable Treatment Plants	3	5
Non-Potable and Recycled Systems		
Miles of Recycled Line	478	572
Number of Storage Tanks	11	12
Number of Open Reservoirs	4	5
Maximum Storage Capacity (acre feet)	23,703	24,155
Number of Pumping Plants	19	19
Number of Wells	5	5
Well Production Capacity (cfs)	10.0	10.0
Sewer System		
Miles of Sewer Line	962	1,153
Number of Lift Stations	13	13
Treatment Plants	2	2
Treatment Capacity (mgd) (Tertiary)	23.5	33.5
Sewage Flows to Michelson Plant	65%	67%
Sewage Flows to Los Alisos Plant	15%	11%
Sewage Flows to Orange County Sanitation District	20%	22%
Natural Treatment System		
Urban Runoff Treatment Facilities	N/A	43
Nuisance Water Diversions	N/A	4
1 acre foot = 325,900 gallons		
cfs = cubic feet per second		
mgd = millions gallons per day		
N/A = Not Available		

2021 Accomplishments

The District conducts a Strategic Planning Process where the Board annually adopts goals and target activities and monitors accomplishments against those goals. Major accomplishments achieved in FY 2020-21 were as follows:

1. Continued to deliver superior service to customers during the Coronavirus Pandemic without any interruptions in customer service, governance or operations. During the Pandemic, there have been no customer shut offs or late fees charged for water service and customers were provided the opportunity to temporarily increase their residential water budget if needed due to the Governor's stay at home orders. Customers facing financial hardship were offered payment plans to assist with their water bills.
2. Started up the Michelson Water Recycling Plant Biosolids & Energy Recovery Facilities capital project (at a cost in excess of \$270 million) for the handling of solids, which will cost effectively provide resource recovery of solids and biogas for IRWD.
3. Continued to promote long- term water use efficiency measures resulting in District customers having one of the lowest residential gallons per capita per day (gpcd) rates in California. In FY 2020-21, IRWD's residential water use (indoors and outdoors) averaged 74 gpcd, which was 37% lower than the statewide residential water use average of 117 gpcd. District finances were not negatively impacted by lower water usage as IRWD recovers its costs from customers through fixed and variable charges.
4. Implemented improved customer web portal to provide additional bill payment options enhancing customer service and communications.
5. Commenced the Groundwater Banking Joint Powers Authority, a partnership between IRWD and Rosedale Rio-Bravo Water Storage District to design, construct and operate the Kern Fan Groundwater Storage Project. Secured additional state funding for the project.
6. Implemented building improvements at IRWD facilities to keep employees and the community safe and healthy.
7. Continued to improve the District's computer systems by increasing cybersecurity measures.
8. Continued to fully fund the IRWD employee pension plan, including the IRWD Pension Benefits Trust, which contains funds adequate to cover the District's CalPERS projected pension liability as of the current fiscal year end.
9. Received the United States Environmental Protection Agency's WaterSense 2020 Partner of the Year Award, Southwest Membrane Operator Association's Outstanding Membrane Plant for 2020, National Association of Clean Water Agencies' Utility of The Future award for recycled water, California Special Districts Association's Ralph Heim Exceptional Outreach and Advocacy Award, and WateReuse California's Outreach and Public Education Award.

Future Goals

The Strategic Planning Process resulted in the Board adoption of eighteen Strategic Goals which it expects to accomplish within the next 5 years along with Target Activities that are typically accomplished within 12 to 18 months. The Board adopted Strategic Goals are as follows:

1. Optimize and protect local water supply utilization: develop and implement projects to increase IRWD's access to local groundwater and stormwater capture; also implement solutions to remove emerging contaminants of concern (e.g. PFOA/ PFOS).
2. Evaluate and invest in projects and programs that will enhance future long-term water supply reliability: pursue projects and supply arrangements to enhance water supply reliability, including increased water banking and water recycling. Provide additional water storage opportunities for regional water supply reliability. Develop sources of funding for the Syphon Reservoir Improvement Project.
3. Optimize use of Irvine Lake as a water resource facility for IRWD and its partners: resolve property related issues and implement projects which will enhance the long-term operational reliability of the reservoir.
4. Develop water banking supplies for IRWD by working with current and future partners: develop capabilities for recharge, storage, and extraction capacity and store water as it becomes available. Continue development of IRWD water banking facilities in Kern County.
5. Develop and implement the Kern Fan Groundwater Storage Project: execute agreements and secure additional water storage investment funding. Complete feasibility study and initiate design for the Project.
6. Develop water recycling facilities and applications for optimal benefit: identify new opportunities for IRWD to utilize recycled water locally.
7. Maximize resource recovery from fully functional biosolids and other resource recovery facilities: complete start-up of IRWD's Biosolids and Energy Recovery Facilities.
8. Improve energy service reliability, manage demands, and control costs. Develop capability to continue operation of key facilities during short and long-term power outages.
9. Maximize watershed protection: control and treat urban runoff while preventing sewer spills.
10. Ensure financial and rate stability: ensure adequate funding for future infrastructure replacement needs, continue to provide low rates for IRWD customers, maintain strong financials through solid debt service coverage, liquidity balances, mixed debt profile, and pension plan obligation funding of at least 90 percent.
11. Identify, assess and implement new technologies, systems and facilities to improve operating efficiency: Protect existing and future systems through advanced cybersecurity measures.
12. Enhance customer communications: strategically extend community outreach.
13. Maximize water use efficiency in the community: explore future opportunities for increased water use efficiency and expand database for improved analytics.
14. Recruit, develop and retain a highly skilled, motivated, and educated work force: develop employee skills, develop and implement employee expectations for corporate values and ensure appropriate employee compensation.
15. Guide and lead local, state and federal policies and legislation: actively engage in issues of key interest to IRWD including water use efficiency, water rate structures, and others.
16. Engage and shape policies and regulations put forth by local, state and federal agencies: influence regulations to align with best practices for recycled water use and other applications.
17. Increase collaboration with other agencies and entities through leadership and innovation: engage at a high-level in industry associations, regional water agencies, and development of opportunities of mutual benefit for IRWD and partners.

18. Implement opportunities that enhance safety, security, and emergency preparedness throughout the District: protect the health and safety of IRWD employees and facilities.

Water Use Efficiency

The District continues to be a leader in the innovation and implementation of water use measures that promote the most efficient use of water, both on a per capita and per acre basis.

The District's budget-based tiered rate structure, implemented in 1991, was carefully designed to promote the efficient use of water by providing customers pricing signals related to over-use of water in a financially sustainable way. This structure is recognized as a model for other agencies to emulate.

In 2018, legislation was passed to "Make Conservation a Way of Life In California". As a result, the state will establish new long-term water efficiency objectives by June 30, 2022. IRWD has a long history of implementing cost-effective water efficiency programs, and it is well positioned to meet the future efficiency standards. The District's customers have one of the lowest residential gallons per capita per day (gpcd) rates in California.

The District's Water Use Efficiency Implementation Plan (Plan), adopted April 2020, provides a comprehensive strategy to implement cost-effective water use efficiency measures for the District and its customers. Specifically, the Plan addresses:

- Engaging in policy discussions and implementing targeted programs to ensure the District is well-positioned to meet the new statewide water use efficiency objectives.
- Continuing to implement cost-effective demand management programs that minimize the need to purchase more expensive imported water, and thereby maintain a lower unit cost of water for the District and its customers.
- Focusing on outdoor water use which remains the biggest potential water conservation opportunity for the District, and the associated urban runoff (typically the result of "over-watering") to minimize water quality degradation from fertilizers, pesticides and animal waste in creeks, rivers and the ocean.
- Reducing water demands, which reduces energy usage and related costs needed to convey water.

The basic tenets of the Plan include local, state and national policy development and leadership, focused customer interface, extensive education and outreach, technology advances, and the development of financial incentives.

During the past fiscal year, the District provided financial incentives to residential and business customers to install water efficient devices such as irrigation equipment and conversions from high water use turf landscape to water-efficient landscapes. The District has also pioneered the use of recycled water beginning in the late 1960s and presently serves over 6,100 sites, with approximately 26,000 acre feet of recycled water sold in FY 2020-21 representing 28% of the District's total water supply. The use of recycled water reduced the District's need to import more expensive potable supplies. Due to the investments made by the District to diversify its resources, expand the use of recycled water and improve water use efficiency, IRWD is well prepared to withstand the current statewide drought. IRWD does not project any water shortages and will continue to provide reliable, high quality water to its customers in a cost-effective manner.

Water Shortage Contingency Planning

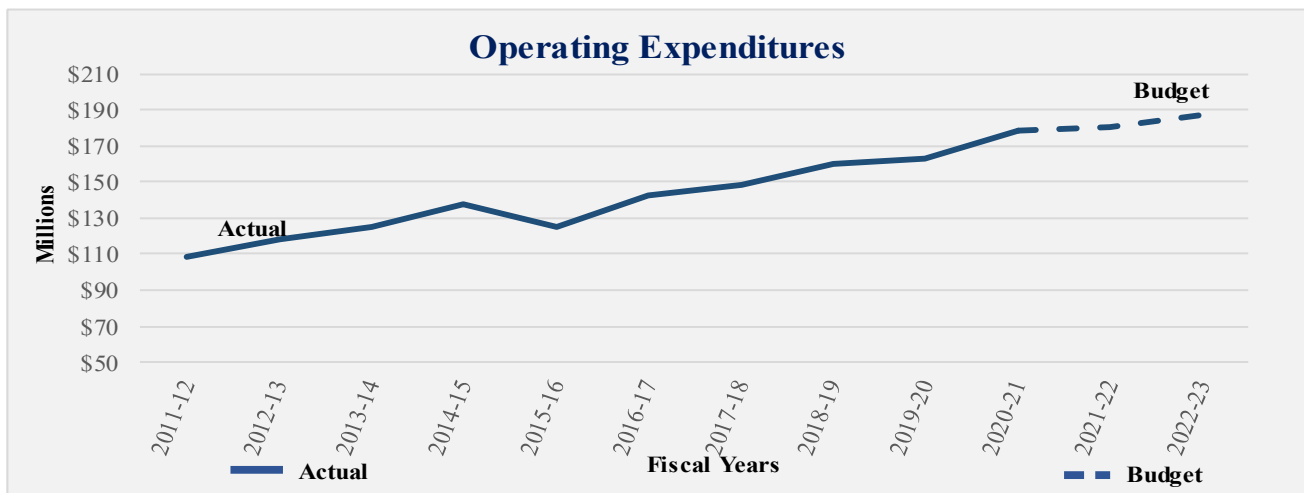
In compliance with California Water Code Section 10632, IRWD adopted an updated Water Shortage Contingency Plan (WSCP) in June 2021. THE WSCP allows the District to strategically reduce water use through a number of potential actions that are staged dependent upon the severity of water shortages. The WSCP incorporates six standard water shortage levels corresponding to progressive ranges of up to 10%, 20%, 30%, 40%, 50%, and greater shortages. For each level or shortage, the WSCP includes a list of voluntary measures, non-rate response measures, and potential cost-of-service based rate response strategies. While IRWD did not have a water shortage in this fiscal year, the WSCP provides the Board with the framework to respond to water shortages should they occur.

Legislative and Regulatory Affairs

The District actively monitors and works to influence local, state and federal legislation, policies and regulatory actions that could affect IRWD’s operations, existing and future facilities and strategic planning efforts. The Board of Directors is frequently engaged in, and takes active positions on, relevant pending legislation and regulatory actions. The District continues to engage proactively in policy discussions surrounding water use efficiency, recycled water, and water rates in California. The District and its Board of Directors also actively participate in state and regional trade associations including the Association of California Water Agencies, the California Association of Sanitation Agencies, the Water Reuse California, the California Special District Association, the California Municipal Utilities Association, and the Bioenergy Association of California.

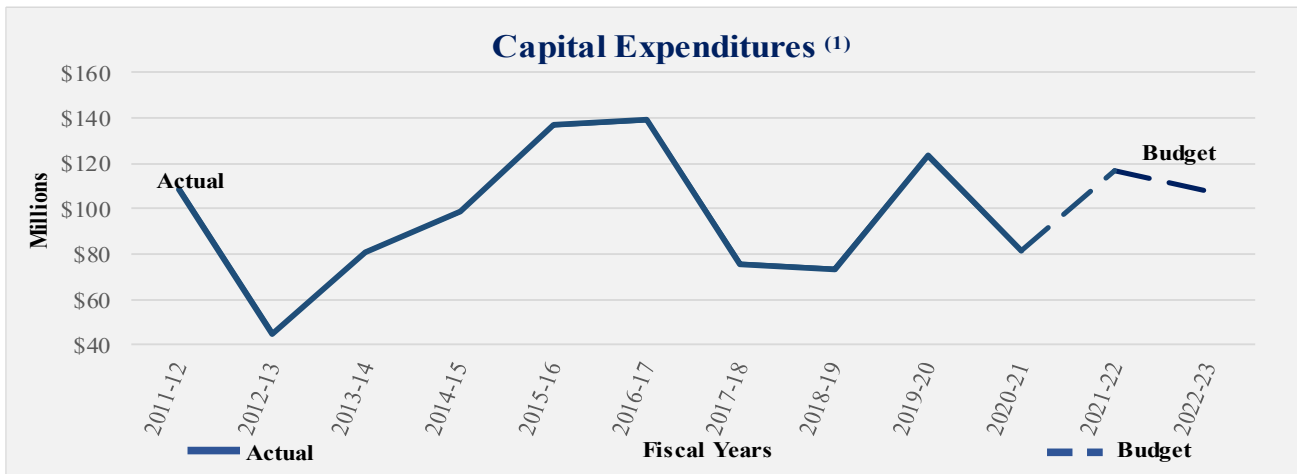
Financial Plan

In April 2021, the Board approved a two-year (biennial) operating budget for FY 2021-22 and FY 2022-23. The goal of the District’s operating budget process is to appropriately fund the resources required to provide excellent service to IRWD customers as cost-efficiently as possible. The graph below shows the actual operating expenditures through FY 2020-21, as well as the Board approved operating budgets for FY 2021-22 and FY 2022-23. Increases reflect costs associated with customer growth within the District, as well as an increase in overall operating expenses. Increases have been kept to a minimum by aggressively pursuing reductions in expenses to offset uncontrollable expenses, such as pass-through rate increases from outside agencies.



The approved budget increased from \$173.6 million in FY 2020-21 to \$180.2 million in FY 2021-22 and \$187.7million in FY 2022-23 . The primary reasons were increases in retirement funding, labor and associated benefits for additional positions necessary to support increased regulatory requirements and software cybersecurity and complexity, higher costs of electricity due to expected rate increases from outside agencies, and increased operating and maintenance costs associated with new facilities coming on line as well as maintenance of aging infrastructure of existing facilities.

The Board also approved a two-year capital budget last year based on new, enhancement and replacement infrastructure needs. The following chart shows the actual capital expenditures through FY 2020-21 and the budgets for FY 2021-22 and FY 2022-23.



(1) Actual capital expenditures excluding overhead, intangibles and capitalized interest.

The reduced spending in FY 2012-13 and FY 2017-18 from prior years represents the District’s completion of several large projects including the MWRP Upgrade Project and the Baker Water Treatment Plant. Higher spending beginning in FY 2013-14 represents the design and construction phases for the Michelson Biosolids and Energy Recovery Facilities, which began construction in FY 2013-14 and was completed by FY 2020-21. The Board approved capital budget is \$116.7 million for FY 2021-22 and \$107.5 million for FY 2022-23. Many capital budget projects extend beyond one fiscal year.

User Rates & Charges

User rates and charges are primarily used to fund the District’s operation and maintenance expenses. The District separates the cost of constructing water and sewer infrastructure from the cost of daily operations and maintenance. User rates, as discussed below, are billed to customers on a monthly basis, and include a component for the inevitable replacement of existing infrastructure. The District collects replacement funds in advance of their need and sets the monies aside. This helps stabilize rates and avoid significant potential future rate spikes. In 2015, the District completed a detailed cost of service study which confirmed that user rates billed to customers are based on actual costs to provide the services. An updated study was completed in 2020 The District allocates capital costs within its service area through the use of water and sewer improvement districts, for which general obligation bond authorization is obtained and used as needed to fund new capital projects. Ad valorem property tax rates are set annually by the District, as are connection fees paid by property developers and landowners. Generally, the District’s policy is to allocate the cost of new infrastructure evenly between the developers/landowners and the ultimate property owners who utilize the water and sewer infrastructure.

Water Rates

The District's rate structure for water use is separated into a commodity charge component and a fixed service charge component. The commodity charge reflects the cost of providing the District's water supplies while the fixed service charge funds the fixed operational and maintenance expenses of the District. Considering the hardship many of the District's customers experienced due to the impacts from COVID-19, the Board elected to defer planned water and sewer rate increases for FY 2020-21.

For FY 2020-21, the District's water fixed service charge remained at the FY 2019-20 rate of \$10.35 per month. The District has a long history of planning for the inevitable replacement of capital infrastructure and sets monies aside into enhancement and replacement funds for this purpose to avoid large, sudden rate increases in the future. In FY 2020-21, the monthly fixed service charge included a user enhancement and replacement component of \$0.70 and \$2.10, respectively, per month, intended to fund current and future replacement and refurbishment costs that provide reliability and redundancy to the District's infrastructure.

The District has a four-tiered rate structure that promotes water use efficiency. A basic use allocation is established for each customer account that provides a reasonable amount of water for the customer's needs based on factors such as the number of occupants, type or classification of use, size of the irrigated area, evapotranspiration rate for the billing period and other consistently applied criteria. The chart illustrates the four-

FY 2020-21 Residential Rate Structure – Potable Water (Commodity Charge)

Tier	Percent of Estimated Customer Need	Cost per ccf *
Low Volume	0 – 40%	\$ 1.47
Base Rate	41 – 100%	\$ 2.00
Inefficient	101 – 140%	\$ 4.86
Wasteful	141% +	\$13.63

* One ccf (100 cubic feet) = 748 gallons

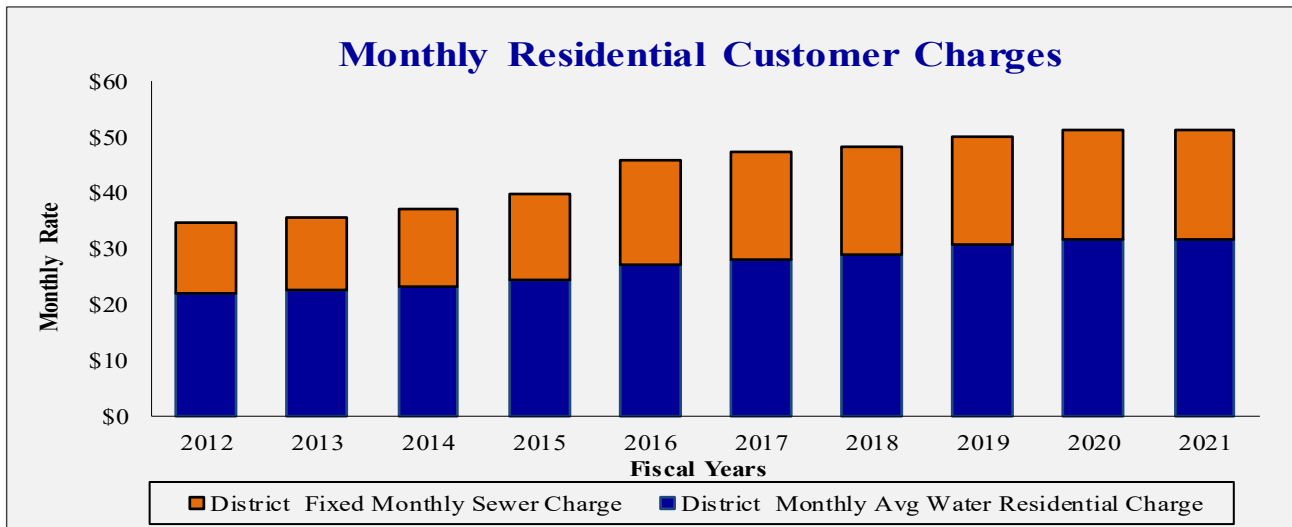
tier structure that reflects the current rates (increase deferred) and higher cost associated with usage in the higher tiers. As of June 2021, approximately 78% of the District's customers were within the first two tiers and approximately 93% of customers fell within the first three tiers. IRWD residential bills are consistently among the lowest in Orange County.

Sewer Rates

The District's sewer service rates are also the lowest in Orange County. The fixed monthly service charge remained at the FY 2019-20 rate of \$19.55 in FY 2020-21 for a typical residential customer covering the collection and treatment of sewage. This monthly service charge includes a user enhancement and replacement component of \$0.68 and \$7.75, respectively, per month, which is intended to fund current and future capital costs to replace, refurbish and upgrade the existing system.

Historic Rate Trends

The following chart reflects the annual "base rate" charge for an average customer's water and sewer service through FY 2020-21. As stated previously, the Board elected to defer an approved increase for FY 2020-21. Prior to FY2020-21, the District raised rates in each of the last several years to offset increased costs from outside agencies and wholesale supplies and increased fixed service costs for both water and sewer, including funding for future infrastructure replacement.



Factors Affecting Financial Condition

The information presented in the Financial Section is best understood in the context of the economic environment in which the District operates, as discussed below.

State and Local Economy

Orange County is the third most populous county in California with nearly 3.2 million residents and a varied economy in which no single industry is considered dominant. With a location central to Orange County, the District’s service area is the home to numerous corporate headquarters such as Oakley, Edwards Life Sciences, Blizzard Entertainment and Glidewell Laboratories. The District is also home to various educational institutions, including University of California Irvine, Concordia University, two community colleges, and other colleges and universities with satellite campuses. The total estimated daytime population served is approximately 600,000.

During FY 2020-21, the District continued to expand its operating facilities to accommodate approximately 4,400 new water and sewer service connections constructed within District boundaries. Development and entitlement needs of the builders continue to change and there remains less than 20% of land available for future development. Requirements for these areas have been included in the planning and these facilities are included in the capital budget. The assessed value of land within the District’s service area has grown significantly in the last decade from \$35.7 billion in 2012 to more than \$74.8 billion in 2021, demonstrating the strength of the local economy.

Long-Term Water Use Efficiency

IRWD has a long history of implementing cost-effective water efficiency programs and is well prepared to meet the future efficiency standards. The District is well positioned to sustain any potential reduction in revenues and meet future efficiency targets with minimal impact on net revenues due to its rate structure which effectively splits costs into variable and fixed rate components. Any decrease in consumption would be offset by a decrease in related variable costs while the fixed rate component would cover the fixed operating and maintenance costs.

COVID-19

The recent outbreak of coronavirus (COVID-19) and related government containment measures created an uncertain environment for essential service providers in the water and sewer industry, including IRWD. In mid-March 2020, prior to the Executive Order issued by the Governor to suspend water shut-offs to customers for non-payment of services, the District proactively closed its offices to the public to

protect the health and safety of staff and suspended all shut-offs and late payment penalties to customers. Payment arrangements as well as temporary variances for additional water usage for people in the house due to the stay at home orders have been offered to all customers impacted by COVID-19.

Due to COVID-19 and its ramifications to District customers, the Board elected to defer a previously planned Board approved rate increase for FY 2020-21. The operating revenue impact of \$4.6 million was mitigated by a similar response from several third-party agencies not passing through planned cost increases. Any short fall in revenues created by the rate deferral will be covered by District reserves. The District continues to monitor the effects of COVID-19. To date, the impact to District revenues from non-payment of fees is not expected to have a material impact on its financial health.

Financial Planning & Budgeting

Short-Term

The Board of Directors approves operating and capital budgets every two years and allocates required funding accordingly. The General Manager has limited discretion to transfer capital between activities and Board approval is required for any overall increase or substantial changes. Throughout the fiscal year, actual expenditures are compared to budget. Variances between budget and actual results are analyzed and evaluated to ensure the District's financial goals and objectives are being met. The budget process is further supported by the District's long-term financial models, enabling the Board to make informed decisions on setting rates and charges that ensure the long-term stability of the District. Funding needs are assessed using these financial planning models.

Long-Term

Meeting the goals of reliable, cost effective long-term water and sewer service requires substantial planning for both capital improvements and changing operating conditions. The District's capital program anticipates the need to update, expand or provide redundancy as well as refurbish and replace existing facilities as they reach the end of their useful life. District staff identifies future infrastructure requirements well in advance of needs to ensure the necessary funding for those projects is available. Capital projects are funded through a combination of connection fees, property taxes and user rates.

The District has a long history of planning for the enhancement and replacement of aging water and sewer infrastructure. Recognizing that infrastructure replacement is both inevitable and costly, the District established infrastructure Enhancement and Replacement Funds to provide funding for updating, expanding, creating redundancy, as well as replacing and refurbishing various components of the water and sewer systems. The objective of the funds is to help moderate the financial impact on future user rates attributable to expenditures associated with enhancing and replacing capital facilities. For FY 2020-21, the combined water and sewer user enhancement/replacement fees were \$11.23 per month.

Over time, the District has transitioned from a newly developing area to a more fully developed area. While many of IRWD's projects slated for construction will provide additional capacity for ultimate demands, the focus of the District is transitioning from building new infrastructure projects to ongoing operations and maintenance activities, as well as upgrading and replacing existing infrastructure. Connection fees paid by developers, which generated \$10.9 million for new capital in FY 2019-20 increased to \$18.9 million in FY 2020-21 with nearly all of the increase driven by redevelopment. The District utilizes a sophisticated financial model to factor in such variables as future development, construction costs, growth rates, inflation, redevelopment and other criteria in order to project rate setting for funding future capital needs.

In 2013, the District completed a strategic review of its existing current capital funding plan which resulted in a master consolidation plan that combined certain improvement districts to maintain the future financial viability of each area. The master plan allocates funding responsibility for capital improvements to the areas which will benefit from those respective facilities and separates areas based on projected timing of development. Diversification of the District’s water supply and sewage treatment options are also major objectives of the District’s master plan. Those objectives are discussed in further detail in the *Major Initiatives* section of this introduction.

The District’s approach to infrastructure replacement and funding defines the industry best practice and illustrates the District’s commitment to financial stability and protection of its customers from significant future rate increases.

Pension Funding

The District recognizes that defined benefit plans and the related future pension obligations pose significant issues for many government agencies. The District has taken a proactive approach to address the issue and, in 2013, established an irrevocable Pension Benefits Trust to substantially fund its PERS unfunded liability. The Pension Benefits Trust provides the District with an additional funding option to PERS that allows for investment by a professional advisor selected and monitored by the District. The Pension Benefits Trust holds the funding contributions for the District pending future remittance to the PERS pension trust fund which will pay all retiree benefit payments to employees associated with the plan. Future contributions will be transferred from the Pension Benefits Trust to PERS at the District’s discretion.

Investment policy and asset allocation decisions relating to the Pension Benefits Trust are made by a Retirement Board consisting of two members from the IRWD Board of Directors and the District’s General Manager. The District made an initial \$35.0 million contribution to the Pension Benefits Trust, and since then has made additional annual contributions ranging from \$1.9 million to \$12.8 million. As of June 30, 2021, the fair value of the assets in the Pension Benefits Trust was approximately \$107.9 million.

The following schedule shows the recent history of pension plan assets and liabilities including the trust assets (in thousands):

Fiscal Year	Total Pension Liability	Total Pension Assets	Total Pension Assets as a Percentage of the Total Pension Liability
06/30/19	\$275,457	\$284,426	103.2%
06/30/20	291,334	301,256	103.4%
06/30/21	306,889	315,287	102.7%

Cash Management Policies and Practices

The District is regulated by State law (primarily California Government Code Section 53600, et seq.) as to the types of fixed-income securities in which it can invest cash assets. In addition, the Board of Directors annually adopts an investment policy that is generally more restrictive than the State codes. The District’s standard practice is to maintain an appropriate balance between safety, liquidity and yield

of investments to fund required expenditures in conformance with all applicable State laws, the District's investment policy, and prudent cash management principles.

For FY 2020-21, the District's fixed-income investment portfolio consisted primarily of short-term securities with a portfolio average maturity of approximately 5 months. These securities included U.S. Treasury notes, U.S. government agency notes and the State-managed Local Agency Investment Fund. The average annual return on all of the District's cash investments in FY 2020-21 was 0.93%. Including real estate investments, the weighted average rate of return was 3.02% for the same period.

At June 30, 2021, the District's cash and investments totaled approximately \$421.9 million. Cash balances are allocated to various funds including the Replacement Fund, New Capital Fund, Debt Service Fund and others.

Real Property Investments

As a means to match a portion of its long-term replacement cost for water and sewer facilities when they reach the end of their useful lives with long-term funding investments, the District obtained legislative authority from the State to invest a portion of its capital facilities Replacement Fund in real property located in Orange County.

As of June 30, 2021, the District owns or has an interest in six properties with an approximate fair value of \$271 million. The District's income-producing real estate investments have a weighted average return (on original cost) for FY 2020-21 of 11.2%. Net revenues of \$9.8 million generated in FY 2020-21 from the District's real estate investments are retained within the Replacement Fund and effectively reduce future increases in user rates.

Debt Management Policies and Practices

The District strives to minimize the cost of its long-term debt. In 1984, the District obtained State legislation that allowed for the use of variable rate debt to help achieve this goal. The Board minimizes its exposure to interest rate risk by utilizing both fixed and variable rate debt and has leveraged opportunities provided by the low interest rate environment in recent years. The District maintains a healthy balance between fixed and variable rate debt. As of June 30, 2021, its debt portfolio included 61.0% of fixed rate debt and 39.0% of variable rate debt. The average all-in cost of debt, including the District's fixed rate payer swaps, was 2.90% for the fiscal year.

The District has a Debt Management Policy Statement (Debt Policy). The Debt Policy objectives formalize previous District guidelines related to timing and amount of future debt issuance, allowable debt types and structures and spending requirements of bond proceeds. The Debt Policy also addresses underwriter selection and allowable methods of sale, continuing disclosure requirements, financial advisor and credit rating agency relationships and other key debt-related topics.

As of June 30, 2021, there were eight outstanding General Obligation (GO) bond issues consisting of \$249.3 million in variable rate mode and \$278.4 million in fixed rate mode (excluding any unamortized premium or discount).

As of June 30, 2021, the District also had one outstanding Certificate of Participation (COP) issue with a balance of \$113.3 million in fixed rate mode. The District has secured direct pay letters of credit to enhance certain issues of its variable rate debt.

The GO bond issues are secured by the District's ability to levy ad valorem property taxes to pay debt service. Although the District has elected to use a combination of ad valorem property taxes and other legally available funds to pay debt service, the legal authority exists to fully fund GO bond debt service through such ad valorem taxes. In addition to the ad valorem tax pledge, certain GO bond issues and the COPs issue are secured by the net revenues of the District. The District is required under some of its debt covenants to collect revenues sufficient to provide net revenues equal to 125% (1.25 times) of senior debt service coverage during the fiscal year. As of June 30, 2021, the District had net revenues equal to 4.1 times senior debt service coverage.

Prior to FY 2003-04, the District's outstanding debt was all in a variable rate mode and the Board of Directors took certain actions to manage and mitigate the interest rate risk. The District's practice has been to maintain a target amount of cash and fixed income investment assets equal to at least 75% of the District's outstanding unhedged variable rate debt. In addition, in 2004 the District began an interest rate swap program under which LIBOR-based fixed payer interest rate swaps were executed to hedge a portion of the District's variable rate exposure. The current \$60 million notional amount of outstanding interest rate swaps allow the District to limit the interest rate risk exposure on approximately \$89.5 million of its remaining tax-exempt variable rate debt to 3.986% (assuming a historical ratio for the tax-exempt SIFMA Index versus taxable 1-month LIBOR of 67%).

In 2017, the U.K. Financial Conduct Authority announced that it will no longer require its participating banks to provide daily submissions of LIBOR rates in the future, which will effectively discontinue the LIBOR index when that occurs. In January 2021, IRWD's Board of Directors approved the adherence to the ISDA LIBOR Fallback Protocol, and the District has completed the adherence process. When the 1-month LIBOR index is discontinued, the fixed payer swaps will transition to the selected Fallback Rate. It is currently anticipated that the 1-month LIBOR index will be discontinued in 2023.

In FY 2010-11, the District issued \$175 million of general obligation fixed rate debt utilizing the taxable Build America Bond (BABs) program. BABs, created under the American Recovery and Reinvestment Act, are taxable bonds with subsidy payments made by the Treasury Department to issuers equaling 35% of the interest costs. In FY 2020-21, Federal subsidy payments were cut by 5.7% under permanent congressionally mandated sequestration. As a result of the reduced subsidy payments, the net interest rate for the District's BABs issue increased from 4.30% to 4.44%.

Risk Management

The District utilizes a combination of self-insurance and third-party liability insurance to minimize loss exposures from property claims, third-party liability claims and workers compensation claims. The District self-insures the first \$25,000 per occurrence for property losses, \$100,000 per occurrence for third-party liability claims and \$125,000 per occurrence for workers compensation claims. Various control techniques used to minimize loss include, but are not limited to, regular employee safety meetings and training sessions, the use of uniform language in contracts designed to limit or prevent liability exposure, general risk assessments, and the development of emergency plans, including a business continuation plan.

The District engages an outside firm to periodically evaluate its network security. The external network security and cybersecurity assessments, and ongoing staff education and awareness, are just a few of the continuous efforts by the District to safeguard information.

Major Initiatives

The District's major initiatives during FY 2020-21 include continuing programs to secure water supplies, as well as expanding sewage treatment capacity and diverting sewage flows, water education programs, and the continuing implementation of the Water Use Efficiency Plan.

Water Supply Reliability

Groundwater Program

One of the goals of the District's Water Resources Master Plan is to identify a reliable water supply mix which includes developing sufficient groundwater production capacity to pump IRWD's portion of the Orange County Ground Water Basin, additional local groundwater production, and to have enough capacity to meet demands during outage conditions. Currently, the District meets these goals and has the ability to produce approximately 45,000 – 50,000 acre feet per year (AFY) of potable groundwater and 4,000 – 5,000 AFY of non-potable groundwater.

Water Banking

In addition to developing its local groundwater and recycled water systems, the District is further improving its water supply reliability by developing and operating water banking facilities in Kern County, California. These neighboring projects are known as the Strand Ranch Integrated Banking Project and the Stockdale Integrated Banking Project (collectively, the IRWD Water Bank). The IRWD Water Bank is situated on groundwater recharge lands that overlie the regional Kern County groundwater basin. The purpose of the IRWD Water Bank is to improve the District's water supply reliability by capturing and storing low cost water available during wet hydrologic periods for use during dry periods. The IRWD Water Bank enhances the District's ability to respond to drought conditions and potential long-term water supply interruptions and enables it to reduce the cost of water delivered under such conditions.

The District has entered into agreements for a 30-year water banking partnership with the Rosedale-Rio Bravo Water Storage District (Rosedale) in Kern County. These agreements provide for Rosedale to operate the IRWD Water Bank on behalf of the District and permits the District: (i) to store up to 126,000 acre feet of water in the aquifer; (ii) to recharge a minimum of 44,600 acre feet of water per year in the aquifer; and (iii) to recover a minimum of 28,750 acre feet of water per year from the aquifer.

The District has constructed groundwater recharge ponds and related facilities at its IRWD Water Bank that are necessary to divert water from an adjacent canal into the ponds. Groundwater wells have been constructed on the Strand Ranch and Stockdale West properties. The District, in partnership with Rosedale and others, has also constructed additional wells that will increase the ability to recover water from the IRWD Water Bank during peak summer demand periods. The District has secured water from a number of sources for recharge at the IRWD Water Bank.

The District has entered into agreements with Metropolitan Water District of Southern California (MWD) which allows it to transfer water from the IRWD Water Bank into the District's service area.

Since 2010, the District has delivered a total of approximately 75,317 acre feet of water to the IRWD Water Bank through its water supply partnerships. The District has returned its partner's share of the water and holds approximately 30,000 acre feet of water in storage for future use in IRWD's service area. The District is currently pursuing additional potential water supply opportunities for diversion into the IRWD Water Bank.

Kern Fan Groundwater Storage Project

The Kern Fan Groundwater Storage Project (Kern Fan Project) will become a regional water bank in the Kern Fan area to capture, recharge and store Article 21 water from the State Water Project (SWP) and other water supplies during wet hydrologic periods. Water stored in the Kern Fan Project would be extracted when needed to provide ecosystem, emergency supply and water supply benefits. IRWD's share of the Kern Fan Project would be used in conjunction with the Strand Ranch and Stockdale Integrated Banking Projects to meet IRWD's contingency storage needs at build-out. IRWD's goal for contingency storage is to secure supplies adequate to backfill the loss of imported supplies for three consecutive years. The Kern Fan Project, along with the IRWD Water Bank will allow IRWD to meet this goal. The project will be developed, implemented and operated by the Groundwater Banking Joint Powers Authority, which was formed between IRWD and Rosedale-Rio Bravo Water Storage District in April 2020.

In August 2017, IRWD and Rosedale jointly submitted a grant application to the California Water Commission (CWC) for the proposed Kern Fan Project. The application sought Proposition 1 funds available from the CWC through the Water Storage Investment Program (WSIP). The CWC has conditionally awarded \$87.8 million to the Kern Fan Project and the District is currently pursuing additional funding opportunities.

Water Rights

The District also owns property with rights to State Water Project water which can be stored in the IRWD Water Bank. The water is available as a result of the District's acquisition of property located within the Dudley Ridge Water District, including the rights to use approximately 1,750 acre feet of Table A State Water Project water allocated to Dudley Ridge. The District can store its Table A water in the IRWD Water Bank with half of the water being available for future use in the District's service area. The acquisition also includes certain participation rights in the Kern Water Bank allowing the District to store up to approximately 9,500 acre feet of water.

The District owns approximately 3,100 acres of agricultural land (Palo Verde Properties) in Riverside County, California. IRWD's Palo Verde Properties are located within Palo Verde Irrigation District (PVID), which has first priority rights on the Colorado River. The properties are included in a Metropolitan Water District of Southern California (MWD) and PVID fallowing program under which MWD makes payments to landowners (up to approximately 970 acres of IRWD's Palo Verde Properties) in exchange for letting land lie fallow. Water that is conserved through fallowing is available for use within MWD's service area (which includes the District's service area). The District leases the Palo Verde Properties to tenant farmers for agricultural uses.

Syphon Recycled Water Seasonal Storage Reservoir

Syphon Reservoir, located north of Irvine, is a sixty-year-old water storage reservoir historically used for agricultural purposes. The District purchased Syphon Reservoir in January 2010, and in 2015 completed the process of converting the reservoir into a recycled water seasonal storage facility. Seasonal storage reservoirs allow the District to store excess recycled water produced in the winter months for use in higher demand summer months. This will increase water reliability by reducing the District's dependency on imported water from MWD used to supplement the recycled water system.

In 2013, the District completed a feasibility study to increase storage capacity in Syphon Reservoir from its current capacity of 450 acre feet to 5,000 acre feet. Additional storage capacity would allow the District to utilize more of the recycled water it produces. An expansion of Syphon Reservoir to 5,000 acre feet would allow for recycling 100% of the sewage flows tributary to MWRP and could reduce the District's need to supplement the recycled water system with imported water from MWD in dry years.

The District is currently performing geotechnical investigations at the site and advancing the preliminary design for the reservoir expansion. Final design is anticipated to be complete in late 2023, and construction of the expanded reservoir is anticipated to be complete in 2027.

Expanded Water Recycling Options, Resource Recovery and System Reliability

The District is continuing its program to increase the reliability of the sewage system by diversifying treatment options and increasing the reliability of critical sewage collections facilities. The goals of the program are to collect sewage in the most cost effective method available, create a high quality and reliable recycled water supply for irrigation and commercial uses and minimize environmental impacts and risks. Sewage collected throughout the District is treated at three locations: The Michelson Water Recycling Plant (MWRP), the Los Alisos Water Recycling Plant (LAWRP) and at the Orange County Sanitation District (OC San). The District owns and operates the MWRP and LAWRP and owns capacity in the OC San facilities.

The most recent example of expanded water recycling reliability was a major capacity expansion of the MWRP from 18 million gallons per day (mgd) to 28 mgd, completed in 2014. The two plants operated by the District currently have capacities of 28 (MWRP) and 7.5 (LAWRP) mgd, with a collective capacity of 35.5 mgd. Expanding existing infrastructure for sewage treatment has four primary benefits including:

- Increased recycled water production and utilization.
- Decreased exposure to third party treatment costs and operational constraints.
- Decreased dependencies on imported water supplies.
- Lower total cost.

In addition to the projects identified above, the District evaluated alternative approaches to recover the solids generated by its water recycling facilities. The evaluation of alternative approaches for handling MWRP solids, historically conveyed to Fountain Valley for treatment by OC San, included consideration of many factors such as costs and potential community impacts.

As a result, in FY 2013-14, the District began construction of a new state-of-the-art organic dewatering and biogas recovery system at the MWRP. The system makes efficient and sustainable use of locally generated renewable resources by creating a beneficial use of biosolids and biogases that are produced during the sewage treatment/recycling process. This project aligns with IRWD's sustainable business practices, while at the same time creating an effective cost management of sewage/recycling services for IRWD customers.



Biosolids and Energy Recovery Facilities

The biosolids treatment process allows for the conversion of biogas into electricity thereby further reducing the District's dependency on its electricity provider. The construction of the MWRP Biosolids and Energy Recovery Facilities is completed and the facilities are anticipated to be operational in August 2021.

Community Education and Outreach

Irvine Ranch Water District made a leap into virtual community education and outreach in FY 2020-21, hosting its very first online community tours, water quality workshops and interactive digital learning experiences in response to the ongoing pandemic. While online interaction will never replace the traditional face-to-face meetings, it proved effective at presenting complicated concepts, encouraging engagement, and drawing larger and broader participation. Hundreds of customers attended each of the District's virtual community events, compared to the 50 or so normally in attendance at in-person functions. New online education tools yielded 121,055 visits and views, compared with the usual 6,000 students reached in a year.

Since its early beginnings, IRWD has invested in lifelong water education and outreach to foster appreciation and understanding of water issues. The longstanding educational partnership with Discovery Cube Orange County was transformed, replacing school assemblies and field trips with live virtual workshops, and prerecorded demonstrations and activities children could do at home. A new, interactive, 360-degree video experience focusing on the District's San Joaquin Marsh and Wildlife Sanctuary enables students to explore the marsh in a game-like video format, learning about the plants and animals that make their home there, and the natural urban runoff treatment process that occurs there to protect species downstream. A similar tool is in development to teach the next generation of water customers about the benefits of recycled water.

Community outreach saw a similar transformation, with live, virtual workshops and prerecorded video tours set up to address water quality (Tap Water 101); recycled water (Michelson Water Recycling Plant Virtual Tour); the wonders of the San Joaquin Marsh and Wildlife Sanctuary; leak detection; and drought-friendly plants. In all of these events, staff were available to answer questions live. Work is underway on a video tour of IRWD's new Biosolids Resource and Energy Recovery Facility.



The District websites - IRWD.com, RightScape.com, and RightScapeResources.com - continued to undergo updates during the pandemic, enhanced with quick links and answers to customer questions. Webpages for IRWD's WaterStar business recognition program were redesigned to facilitate water efficiency among local industries.

The District's monthly "Pipelines" newsletter and quarterly gardening newsletter, "The Dirt," continued to inform customers and inspire them to appreciate the value of water. News articles promoting that same message were published in local newspapers, including the Irvine Standard.

Also in FY 2020-21, IRWD implemented a suite of creative and targeted outreach initiatives, known as the 2020 Water Use Efficiency Outreach Campaign. The campaign supported programs to help customers save water outdoors, where IRWD sees the greatest potential for additional efficiency. The campaign focused on promoting turf removal and weather-based irrigation controller incentives through a monthly email campaign; increasing customers' desire for water-efficient landscaping by highlighting its beauty via IRWD-owned media and paid social media; and increasing attendance at virtual garden workshops through a paid social media and email campaign featuring beautiful garden images.

Looking ahead, IRWD approved an 18-month 2021-2022 Water Use Efficiency Outreach Campaign, which will include the redesign of RightScape.com to optimize it for mobile and tablets; a highly visual outreach campaign to promote turf replacement; multi-media gardening workshops; and an email campaign to promote smart irrigation controller rebates and installations.

All of these changes increased awareness and participation in District programs and contributed to IRWD's success in meeting its state-mandated drinking water efficiency targets.

Awards and Acknowledgments

The Government Finance Officers Association (GFOA) awarded a Certificate of Achievement for Excellence in Financial Reporting to the Irvine Ranch Water District for its comprehensive annual financial report (CAFR) for the fiscal years ended June 30, 2004 through June 30, 2020. In order to be awarded a Certificate of Achievement, IRWD was required to publish an easily readable and efficiently organized CAFR that satisfied both GAAP and applicable legal requirements.

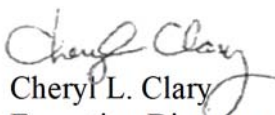
A Certificate of Achievement is valid for a period of one year. We believe that our current CAFR continues to meet the Certificate of Achievement Program's requirements and will be submitting it to the GFOA to determine its eligibility for another certificate.

Staff would like to acknowledge the IRWD Board of Directors for their support and for maintaining the highest standards of professionalism in the management of the District's operations and finances. We would also like to thank the dedicated employees of the District for their commitment to providing high quality service to the District's customers. The preparation of this report would not have been possible without the efficient and dedicated service of the entire Finance Department staff. We also wish to express our appreciation to all staff that assisted and contributed to the preparation of this report.

Respectfully submitted,



Paul A. Cook
General Manager



Cheryl L. Clary
Executive Director of Finance & Administration

Irvine Ranch Water District
List of Principal Officials

Board of Directors

President and Director	Douglas J. Reinhart
Vice President and Director	John B. Withers
Director	Steven E. LaMar
Director	Karen McLaughlin
Director	Peer A. Swan

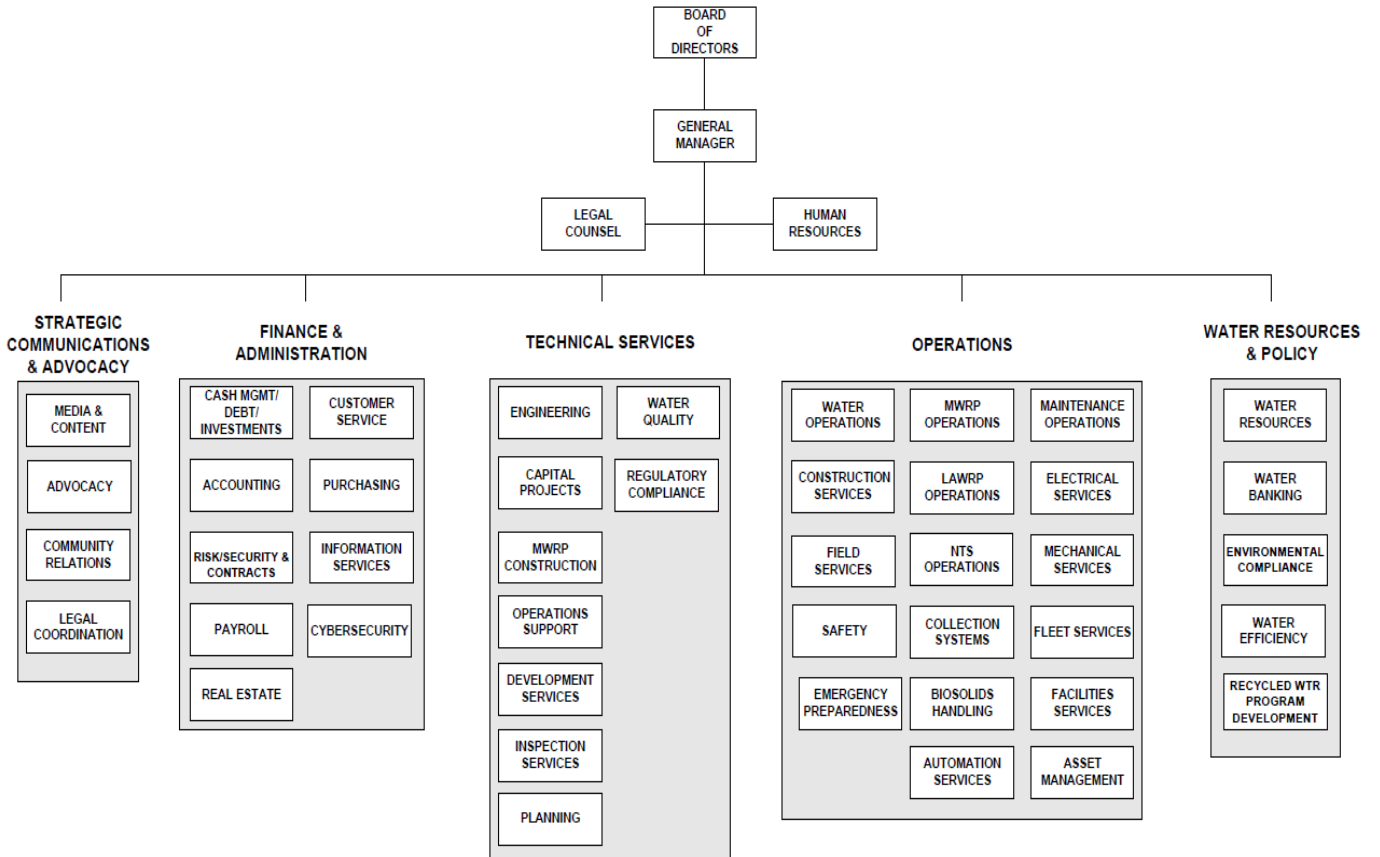
Executive Management

General Manager	Paul A. Cook
Executive Director of Finance & Administration	Cheryl L. Clary
Executive Director of Operations	Wendy L. Chambers
Executive Director of Technical Services	Kevin L. Burton
Executive Director of Water Policy	Paul A. Weghorst
Director of Human Resources	Tiffany A. Mitcham
Director of Water Resources	Fiona M. Sanchez
Director of Strategic Communications & Advocacy/Deputy General Counsel	Christine A. Compton
Director of Information Services	Tom J. Malone
Director of Treasury and Risk Management	Robert C. Jacobson
Director of Recycling Operations	Jose Zepeda
Director of Maintenance	Richard S. Mykitta
Director of Water Quality & Regulatory Compliance	James E. Colston

Irvine Ranch Water District

Organizational Chart (By Function)

Fiscal Year 2020-21





Government Finance Officers Association

Certificate of
Achievement
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in Financial
Reporting

Presented to

**Irvine Ranch Water District
California**

For its Comprehensive Annual
Financial Report
For the Fiscal Year Ended

June 30, 2020

Christopher P. Morill

Executive Director/CEO

Financial Section

Irvine Ranch Water District
Fiscal Year Ended June 30, 2021

Independent Auditors' Report

Board of Directors
Irvine Ranch Water District
Irvine, California

Report on the Financial Statements

We have audited the accompanying financial statements of the business type activities and the aggregate remaining fund information of Irvine Ranch Water District (the District), as of and for the year ended June 30, 2021, and the related notes to the financial statements, which collectively comprise the District's financial statements as listed in the table of contents.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditors' Responsibility

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditors' judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

Opinion

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of the Irvine Ranch Water District, as of June 30, 2020, and the respective change in financial position and cash flows thereof for the year then ended in accordance with accounting principles generally accepted in the United States of America.

Emphasis of Matter

During the year ended June 30, 2021, the District implemented Governmental Accounting Standards Board (GASB) Statement No. 84: Fiduciary Activities. Our opinion is not modified with respect to this matter.

Report on Summarized Comparative Information

We have previously audited the District's 2020 financial statements, and we expressed an unmodified audit opinion on those audited financial statements in our report dated November 23, 2020. In our opinion, the summarized comparative information presented herein as of and for the year ended June 30, 2020 is consistent, in all material respects, with the audited financial statements from which it has been derived.

Other Matters

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that *management's discussion and analysis, schedule of changes in net pension liability and related ratios, schedule of contributions – defined benefit pension plan, schedule of changes in the OPEB liability and related ratios, and schedule of contributions – OPEB* be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Other Information

Our audit was conducted for the purpose of forming opinions on the financial statements that collectively comprise the District's basic financial statements.

The *introductory section* and the *statistical section* are presented for purposes of additional analysis and are not a required part of the basic financial statements. The *introductory section* and the *statistical section* have not been subjected to the auditing procedures applied in the audit of the basic financial statements, and accordingly, we do not express an opinion or provide any assurance on it.

Other Reporting Required by Government Auditing Standards

In accordance with *Government Auditing Standards*, we have also issued our report dated December 1, 2021, on our consideration of the District's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the District's internal control over financial reporting and compliance.

Davis Farr LLP

Irvine, California
December 1, 2021

MANAGEMENT'S DISCUSSION AND ANALYSIS

The following discussion and analysis of the financial performance of the Irvine Ranch Water District (District) provides an overview of the District's financial activities for the fiscal year ended June 30, 2021. This section should be read in conjunction with the basic financial statements and notes to the basic financial statements, which follow this analysis.

Financial Highlights:

- Total assets and deferred outflows of resources exceed total liabilities and deferred inflows of resources by \$2,074.2 million (net position), consisting of \$1,336.7 million in net investment in capital assets, \$384.0 million restricted for water services and \$353.5 million restricted for sewer services. This is an increase of \$82.4 million or 4.1 percent over the prior fiscal year net position of \$1,991.8 million.
- Total assets are \$2,892.8 million, an increase of \$76.3 million or 2.7 percent over the prior fiscal year. This is due primarily to a \$74.7 million increase in the District's cash and investments, a \$36.0 million increase in capital assets, a \$25.7 million increase in fair value of real estate investments and a \$24.8 million increase in pension benefits trust investments. These were partially offset by a decrease in real estate investments due primarily to the payoff of loan receivable and interest of \$85.9 million.
- Total liabilities are \$861.8 million, a decrease of \$6.6 million or 0.8 percent from the prior year. Liabilities consist primarily of \$689.0 million of debt, net pension and OPEB liabilities of \$98.1 million, swap liability of \$20.4 million and accounts payable and other liabilities of \$54.3 million. The total decrease over the prior year is due primarily to \$14.8 million in principal debt payments during the fiscal year and a decrease of \$6.7 million in accumulated losses associated with the fair value of interest rate swaps, partially offset by a \$11.4 million increase in pension and OPEB liabilities and a \$4.4 million increase in accounts payable to various vendors.
- The Irvine Ranch Water District Post-Employment Benefits Trust (Pension Benefits Trust) was established in June 2013 to assist in funding the District's CalPERS unfunded liability. As of June 30, 2021, the District's total pension assets (including the CalPERS and Pension Benefits Trust assets) as a percentage of the total pension liability is 102.7 percent. For more detail, see Note 13 of the Notes to the Basic Financial Statements.
- Total revenues are \$319.5 million, an increase of \$45.5 million or 16.6 percent over the prior fiscal year. Operating revenues increased \$11.4 million due primarily to customer growth and higher sales of potable and recycled water. Non-operating revenues increased \$34.1 million due primarily to increases in the fair value of real estate assets and pension benefits trust investments.
- Total expenses are \$268.5 million, an increase of \$11.9 million or 4.6 percent over the prior fiscal year. Operating expenses increased \$17.2 million due primarily to increased costs associated with the imported water purchases and pumping, increased costs associated with the water, sewer, and recycled treatment and system maintenance, and higher labor and benefits costs. Non-operating expenses decreased by \$5.3 million due to decreases in other non-operating expenses associated with a disposal of capital assets during the fiscal year ended June 30, 2020.
- Capital contributions are \$31.4 million, a decrease of \$15.0 million or 32.3 percent over the prior fiscal year. This is due primarily to a \$22.3 million decrease in the number of donated facilities that were completed and donated from developers to the District, partially offset by a \$8.0 million increase in connection fees paid by developers.

More detailed analysis about the overall District's financial position and operations is provided in the following sections.

MANAGEMENT'S DISCUSSION AND ANALYSIS (Continued)

Overview of the Financial Statements:

The basic financial statements of the District consist of the financial statements (the Statement of Net Position, the Statement of Revenues, Expenses, and Changes in Net Position, and the Statement of Cash Flows), Statement of Fiduciary Net Position, Statement of Changes in Fiduciary Net Position and notes to the basic financial statements. The basic financial statements are prepared using the accrual basis of accounting. This report also contains other supplementary information in addition to the basic financial statements.

Statement of Net Position depicts the District's financial position at June 30, the end of the District's fiscal year. The statement of net position shows all financial assets and liabilities of the District. Net position represents the District's residual interest after liabilities and deferred inflows of resources are deducted from assets and deferred outflows of resources. Net position is displayed in two components: net investment in capital assets and restricted for water and sewer services.

Statement of Revenues, Expenses and Changes in Net Position provides information on the District's operations and can be used to determine whether the District has recovered all of its costs through operating and non-operating revenues.

Statement of Cash Flows provides information on the District's cash receipts, cash payments and changes in cash resulting from operations, investments and financing activities.

Fiduciary Fund is used to account for assets held by the District as a custodian for the San Joaquin Wildlife Sanctuary (SJWS).

Notes to the Basic Financial Statements provide additional information essential to a full understanding of the data provided in the basic financial statements.

The **Other Information** includes *required supplementary information* concerning the District's progress in funding its obligations to provide pension and other post-employment benefits to its employees.

Financial Analysis of the District:

The following condensed schedules contain summary financial information extracted from the basic financial statements to assist general readers in evaluating the District's overall financial position and results of operations as described in this Management's Discussion and Analysis (MD&A). Increases or decreases in these schedules can be used as performance indicators to assess whether the District's overall financial position has improved or deteriorated. Other external factors such as changes in economic conditions, customer growth, and legislative mandates should also be considered as part of this analysis.

MANAGEMENT'S DISCUSSION AND ANALYSIS (Continued)

Financial Position Summary:

The Statement of Net Position reflects the District's financial position as of June 30. The statement includes assets, deferred outflow of resources, liabilities, and deferred inflows of resources. The net position represents the District's net worth including, but not limited to, capital contributions and net investment in capital assets. A condensed summary of the District's total net position at June 30 is set forth below:

Table 1 - Summary of Net Position (in millions)				
	2021	2020	Increase/(Decrease)	
			Amount	Percentage
Assets				
Current assets	\$ 488.3	\$ 414.6	\$ 73.7	17.8%
Capital assets, net	2,023.8	1,987.8	36.0	1.8%
Other noncurrent assets	380.7	414.1	(33.4)	-8.1%
Total assets	2,892.8	2,816.5	76.3	2.7%
Deferred Outflows of Resources	44.9	47.6	(2.7)	-5.7%
Liabilities				
Current liabilities	64.4	56.0	8.4	15.0%
Long-term liabilities	797.4	812.4	(15.0)	-1.8%
Total liabilities	861.8	868.4	(6.6)	-0.8%
Deferred Inflows of Resources	1.7	3.9	(2.2)	-56.4%
Net Position				
Net investment in capital assets	1,336.7	1,283.8	52.9	4.1%
Restricted for water services	384.0	350.0	34.0	9.7%
Restricted for sewer services	353.5	358.0	(4.5)	-1.3%
Total net position	\$2,074.2	\$1,991.8	\$ 82.4	4.1%

As shown in Table 1, the District's total assets increased \$76.3 million or 2.7 percent during the current fiscal year. Current assets increased \$73.7 million due primarily to a \$76.5 million cash payment received from a loan related to the sale of the Serrano Summit property in August 2020.

Capital assets increased \$36.0 million or 1.8 percent during the current fiscal year. The District added \$76.2 million in water and sewer assets during the year partially offset by an increase of \$66.9 million in accumulated depreciation. The largest capital spending during the year was \$29.2 million for the Michelson Water Recycling Plant Biosolids and Energy Recovery Facilities project, a multiple year project with a total cost in excess of \$270 million and \$5.6 million for the rehabilitation of collection system siphons construction project.

Other noncurrent assets decreased \$33.4 million or 8.1 percent during the current fiscal year. Noncurrent assets include the District's real estate investments and the pension benefits trust investments which was established in 2013 to help fund the District's pension liability. In August 2020, a \$76.5 million loan plus \$9.4 in accrued interest from the District's sale of the Serrano Summit property was paid off. The decrease is partially offset by a \$25.7 million increase in the fair value of real estate investments and a \$20.5 million increase in the fair value of pension benefits trust investments.

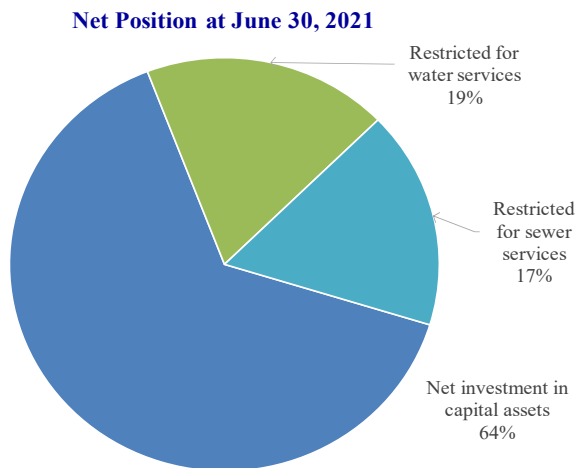
The District's deferred outflows of resources decreased by \$2.7 million or 5.7 percent over the prior fiscal year. This is due primarily to a \$6.7 million decrease in accumulated losses associated with the fair value of interest rate swaps. This decrease is partially offset by an increase of \$3.0 million pension and OPEB actuarial related changes in assumptions and experience.

MANAGEMENT'S DISCUSSION AND ANALYSIS (Continued)

The District's total liabilities decreased \$6.6 million or 0.8 percent in the current fiscal year. This was due primarily to \$14.8 million in principal payments of the District's general obligation bonds, certificates of participation, and notes payable during the year and \$6.7 million in accumulated losses associated with the fair value of interest rate swaps. The decrease was partially offset by a \$11.4 million increase in pension and OPEB liability and a \$4.4 million increases in the accounts payable to various vendors.

The District's deferred inflows of resources decreased \$2.2 million or 56.4 percent in the current fiscal year. This was due to pension and OPEB actuarial related changes in assumptions and experience.

Net position at the end of the current fiscal year increased \$82.4 million or 4.1 percent. Net position consists of net investment in capital assets and restricted net positions.



Net investment in capital assets are capital assets, net of accumulated depreciation/amortization and liabilities (such as debt) attributable to the acquisition, construction, or improvement of those assets. Net investment in capital assets was \$1,336.7 million or 64.0 percent of total net position, an increase of \$52.9 million from the prior fiscal year. The change is due primarily to \$36.0 million in net capital asset additions, \$14.8 million of debt principal payments and \$2.3 million amortization of premiums in the current fiscal year.

Several major District capital projects contributed to the increase, including \$29.2 million for the Michelson Water Recycling Plant Biosolids and Energy Recovery Facilities project which will reduce the District's overall sewage treatment costs as well as provide other resource recovery benefits and \$5.6 million for the rehabilitation of collection system siphons construction project. These projects account for 65.8 percent of the increase in net investment in capital assets.

Restricted net position for water services was \$384.0 million or 19.0 percent of total net position. Restricted net position for sewer services was \$353.5 million or 17.0 percent of total net position. Restricted net positions are restricted by legislation which imposes requirements that District assets be used only for the specific purposes for which it was formed.

MANAGEMENT'S DISCUSSION AND ANALYSIS (Continued)

Activities and Changes in Net Position:

The Statement of Revenues, Expenses, and Changes in Net Position summarizes the District's operations during the current fiscal year. A Summary of the District's changes in net position for the fiscal years ended June 30, is included in Table 2 below:

Table 2 - Revenues, Expenses and Changes in Net Position (in millions)				
	2021	2020	Increase/(Decrease)	
			Amount	Percentage
Operating revenues				
Water sales and service charges	\$ 96.6	\$ 90.2	\$ 6.4	7.1%
Sewer sales and service charges	82.2	77.2	5.0	6.5%
Total operating revenues	178.8	167.4	11.4	6.8%
Non-operating revenues				
Property taxes	67.7	66.4	1.3	2.0%
Interest income	5.3	7.8	(2.5)	-32.1%
Increase (decrease) in fair value of investments	(4.6)	2.3	(6.9)	-300.0%
Real estate income	15.4	18.2	(2.8)	-15.4%
Increase (decrease) in fair value of real estate investments	25.7	0.5	25.2	5040.0%
Pension benefits trust interest and dividends income	4.4	3.3	1.1	33.3%
Increase (decrease) in fair value of pension benefits trust investments	20.5	1.5	19.0	1266.7%
Other income	6.3	6.6	(0.3)	-4.5%
Total non-operating revenues	140.7	106.6	34.1	32.0%
Total revenues	319.5	274.0	45.5	16.6%
Operating expenses				
Water services expenses	101.7	89.3	12.4	13.9%
Sewer services expenses	71.0	66.6	4.4	6.6%
Depreciation	68.0	67.6	0.4	0.6%
Total operating expenses	240.7	223.5	17.2	7.7%
Non-operating expenses				
Interest expense	20.8	22.2	(1.4)	-6.3%
Real estate expense	5.6	5.6	-	0.0%
Other expense	1.4	5.3	(3.9)	-73.6%
Total non-operating expenses	27.8	33.1	(5.3)	-16.0%
Total expenses	268.5	256.6	11.9	4.6%
Income/(loss) before capital contributions	51.0	17.4	33.6	193.1%
Capital contributions	31.4	46.4	(15.0)	-32.3%
Change in net position	82.4	63.8	18.6	29.2%
Beginning net position	1,991.8	1,928.0	63.8	3.3%
Ending net position	\$ 2,074.2	\$ 1,991.8	\$ 82.4	4.1%

MANAGEMENT'S DISCUSSION AND ANALYSIS (Continued)

Revenues:

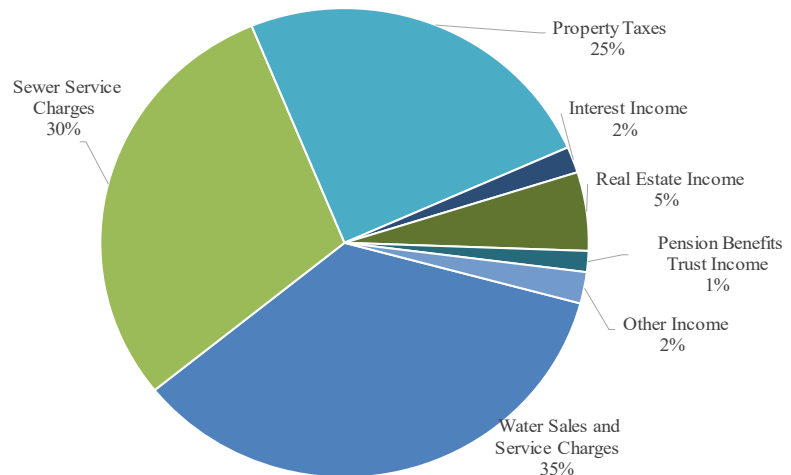
As shown in Table 2, the District's operating revenues total \$178.8 million or 56.0 percent of total revenues. Water sales contributed \$96.6 million or 54.0 percent to total operating revenues and sewer sales contributed \$82.2 million or 46.0 percent to total operating revenues. Operating revenues increased by \$11.4 million or 6.8 percent from the prior fiscal year. This is primarily due to customer growth and higher sales of potable and recycled water. The District did not increase the commodity rates from the fiscal year ended June 30, 2020 to the fiscal year ended June 30, 2021.

The chart below illustrates the sources of revenue for the fiscal year ended June 30, 2021.

Non-operating revenues total \$140.7 million and account for 44.0 percent of total revenue for the fiscal year ended June 30, 2021. This is an increase of \$34.1 million or 32.0 percent from the prior fiscal year. The increase in the current fiscal year is due to:

- An increase of \$25.2 million in changes in the fair value of the real estate investments.
- An increase of \$19.0 million in changes in the fair value of the Pension Benefits Trust investments.
- An increase of \$1.3 million in one percent and ad valorem property tax revenue associated with higher assessed values in the District's service area.
- An increase of \$1.1 million in the Pension Benefits Trust interest and dividends income.
- A decrease of \$9.4 million in the District's fixed income investment interest income and changes in the fair value of the investments due to lower interest rates.
- A decrease of \$2.8 million in the income from the real estate investments.
- Other net decreases of \$0.3 million.

Revenues for Fiscal Year Ended June 30, 2021
(excluding changes in fair value of investments, real estate investments, and pension benefits trust investments)



Expenses:

As shown in Table 2, operating expenses total \$240.7 million, of which \$172.7 million relates to the cost of providing water and sewer services to the District's customers. Water service operating costs are 105.3 percent of revenues and sewer service operating costs are 86.4 percent of revenues. Water and sewer operating expenses, excluding depreciation, increased by \$16.8 million or 10.8 percent over the prior fiscal year.

Water expenses totaled \$101.7 million, an increase of \$12.4 million or 13.9 percent primarily due to:

- An increase of \$6.5 million in water costs due primarily to higher imported water purchases and pumping costs.
- An increase of \$3.8 million in electricity and repair costs for potable and untreated water treatment and system maintenance.

MANAGEMENT'S DISCUSSION AND ANALYSIS (Continued)

Expenses (Continued):

- An increase of \$2.0 million in labor and benefits for potable and untreated water treatment and systems maintenance.
- Other net increases of \$0.1 million.

Sewer service expenses totaled \$71.0 million, an increase of \$4.4 million or 6.6 percent over the prior fiscal year. The increase is due primarily to:

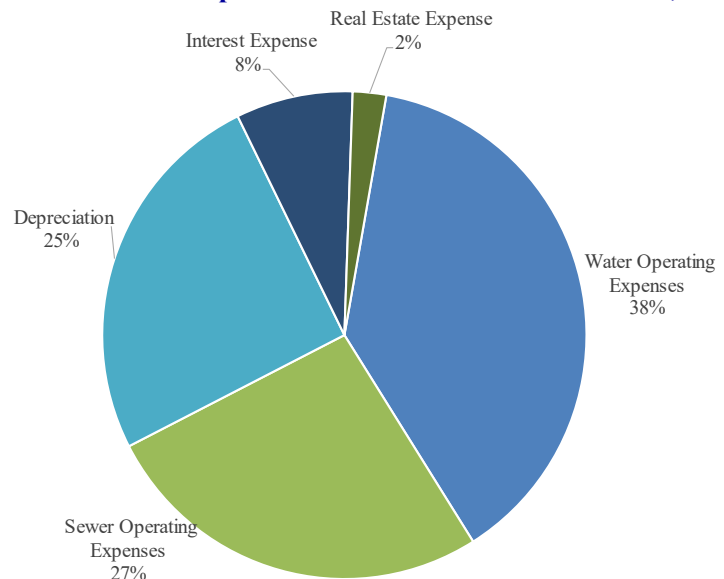
- An increase of \$3.9 million in labor and benefits for sewage treatment and recycled water system maintenance.
- An increase of \$4.1 million in electricity and repair costs for sewage treatment and recycled water system maintenance.
- An increase of \$1.2 million in expensed sewer and recycled water projects relating to the District's capital program.
- A decrease of \$5.3 million in the cost of handling, treatment, and disposal of sewage solids sent to the District's third-party provider Orange County Sanitation District (OC San) due to lower flows. This is due primarily to the completion and start-up of the biosolids facility.
- Other net increases of \$0.5 million.

Depreciation expense totaled \$68.0 million, an increase of \$0.4 million or 0.6 percent over the prior fiscal year. The increase is the result of the completion of several capital projects.

Non-operating expenses totaled \$27.8 million, a decrease of \$5.3 million or 16.0 percent from the prior year primarily due to:

- A decrease of \$3.9 million in other non-operating expenses associated with a disposal of capital assets during the fiscal year ended June 30, 2020.
- A decrease of \$1.4 million in interest expense associated with a reduction in interest rates on the District's debt.

Functional Expenses for Fiscal Year Ended June 30, 2021



Capital Contributions:

Capital contributions totaled \$31.4 million, a decrease of \$15.0 million or 32.3 percent from the prior fiscal year. Donated facilities from developers decreased \$22.3 million due to a lower number of projects that were completed and donated to the District. Connection fees paid by developers were \$18.9 million, an increase of \$8.0 million from the prior year due to a higher number new units in the building industry. The District also received \$0.7 million less from grants / contributions from federal, state, and local agencies compared to the prior year.

MANAGEMENT'S DISCUSSION AND ANALYSIS (Continued)

Capital Assets:

The District's investment in capital assets consists of the following as of June 30:

	2021	2020	Increase/(Decrease)	
			Amount	Percentage
Water assets	\$ 1,228.1	\$ 1,188.4	\$ 39.7	3.3%
Sewer assets	1,367.9	1,332.4	35.5	2.7%
Less: accumulated depreciation	(1,055.9)	(989.0)	(66.9)	6.8%
Land and water rights	126.6	125.6	1.0	0.8%
Construction in progress	357.1	330.4	26.7	8.1%
Total	\$ 2,023.8	\$ 1,987.8	\$ 36.0	1.8%

Capital assets, net of depreciation increased \$36.0 million or 1.8% in the current fiscal year. Construction in Progress added \$101.6 million during the current fiscal year. Total projects transferred from Construction in Progress to Capital Assets and depreciated during the fiscal year ended June 30, 2021 were \$74.9 million. The District's accumulated depreciation increased by \$66.9 million for depreciation expense in the current fiscal year. The following is a list of the top 10 capital projects expenditures which accounted for 54.3 percent of total capital assets additions incurred in the current fiscal year (in millions):

Project Description	Amount
MWRP Biosolids and Energy Recovery Facilities	\$ 29.2
Rehabilitation of Collection System Siphons	5.6
Meter and Pipelines Replacement Program FY 20/21	4.6
Eastwood Recycled Water Pump Station Zone A-B	3.2
Santiago Dam Outlet Replacement	2.7
MWRP Transformer T1 Replacement	2.4
Chlorine Gas Disinfection System Conversion	2.1
Rattlesnake Pump Station Zone A	1.9
Eastwood Recycled Water Pump Station Zone A-C	1.8
Syphon Reservoir Improvements	1.7
Total	\$ 55.2

Additional information on the District's capital assets can be found in Note 5 of the Notes to the Basic Financial Statements.

MANAGEMENT'S DISCUSSION AND ANALYSIS (Continued)

Debt Administration:

As shown below in Table 4, as of June 30, 2021, the District had total debt outstanding of \$688.9 million, a decrease of \$17.1 million or 2.4 percent from the prior fiscal year.

	2021	2020	Increase/(Decrease)	
			Amount	Percentage
General obligation bonds	\$ 550.4	\$ 562.6	\$ (12.2)	-2.2%
Certificates of participation	138.2	143.0	(4.8)	-3.4%
Notes payable	0.3	0.4	(0.1)	-25.0%
Total	\$ 688.9	\$ 706.0	\$ (17.1)	-2.4%

During the current fiscal year, the decreases in the District's total debt were primarily due to \$14.8 million in debt payments and \$2.3 million of premium amortization. The District's rated debt obligations have received the following ratings from the three major rating agencies:

Fitch Ratings:	AAA
Moody's:	Aa1
Standard and Poor's:	AAA

Additional information on the District's long-term debt can be found in Note 9 of the Notes to the Basic Financial Statements.

Contacting the District's Financial Management:

This financial report is designed to provide our citizens, taxpayers, customers, investors and creditors with a general review of the District's finances and to show the District's accountability for the money it receives. If you have questions about this report or need additional financial information, contact the Executive Director of Finance and Administration at the Irvine Ranch Water District, 15600 Sand Canyon Avenue, Irvine, California 92618-7500.

Irvine Ranch Water District
Statement of Net Position
June 30, 2021
(with comparative data as of June 30, 2020)
(in thousands)

	2021	2020
ASSETS		
Current Assets:		
Cash and Investments (note 2)	\$ 421,911	\$ 347,261
Receivables:		
Customer accounts receivable	13,841	8,929
Interest receivable	850	1,471
Notes receivable, current portion	75	75
Due from other agencies (note 6)	27,822	33,773
Other receivables	5,819	4,140
Total receivables	48,407	48,388
Other Current Assets:		
Inventories (note 4)	17,306	17,383
Prepaid items and deposits	703	1,607
Total other current assets	18,009	18,990
Total current assets	488,327	414,639
Noncurrent Assets:		
Capital Assets (note 5):		
Water assets	1,228,105	1,188,464
Sewer assets	1,367,904	1,332,384
Subtotal	2,596,009	2,520,848
Less accumulated depreciation	(1,055,866)	(989,034)
Total capital assets being depreciated, net	1,540,143	1,531,814
Land and water rights	126,565	125,598
Construction in progress	357,075	330,388
Total capital assets, net	2,023,783	1,987,800
Other Noncurrent Assets:		
Notes receivable, net of current portion	468	543
Real estate investments (note 7)	271,490	330,427
Pension benefits trust investments (notes 2 & 13)	107,930	83,103
Investment in joint venture (note 8)	843	-
Total other noncurrent assets	380,731	414,073
Total noncurrent assets	2,404,514	2,401,873
TOTAL ASSETS	2,892,841	2,816,512
DEFERRED OUTFLOWS OF RESOURCES		
Deferred refunding charges	1,955	2,111
Accumulated decrease in fair value of swap agreements (note 3)	20,374	27,042
Pension contributions (note 13)	9,569	8,429
Pension actuarial changes (note 13)	6,266	7,068
OPEB contributions (note 14)	804	831
OPEB actuarial changes (note 14)	5,918	2,136
TOTAL DEFERRED OUTFLOWS OF RESOURCES	44,886	47,617

See accompanying notes to the basic financial statements.

Irvine Ranch Water District
Statement of Net Position
June 30, 2021
(with comparative data as of June 30, 2020)
(in thousands)
(Continued)

	<u>2021</u>	<u>2020</u>
LIABILITIES		
Current Liabilities:		
Accounts payable and accrued expenses	28,515	24,136
Customer deposits and advance payments	5,260	4,597
Accrued interest:		
General obligation bonds	3,614	3,630
Other accrued interest payable	2,917	2,890
Current portion of long-term liabilities:		
General obligation bonds (note 9)	15,079	12,224
Certificates of participation (note 9)	5,051	4,796
Notes payable (note 9)	74	72
Other long term liabilities (note 9)	2,761	2,298
Unearned revenue (note 10)	565	565
Claims liability (note 17)	572	791
Total current liabilities	<u>64,408</u>	<u>55,999</u>
Long-Term Liabilities:		
General obligation bonds, net of current portion (note 9)	535,342	550,421
Certificates of participation, net of current portion (note 9)	133,182	138,232
Notes payable, net of current portion (note 9)	273	347
Other long-term liabilities (note 9)	4,659	3,921
Unearned revenue, net of current portion (note 10)	4,263	4,828
Claims liability, net of current portion (note 17)	1,177	947
Net pension liability (note 13)	74,705	68,467
OPEB liability (note 14)	23,369	18,234
Swap liability (note 3)	20,374	27,042
Total long-term liabilities	<u>797,344</u>	<u>812,439</u>
TOTAL LIABILITIES	<u>861,752</u>	<u>868,438</u>
DEFERRED INFLOWS OF RESOURCES		
Pension actuarial changes (note 13)	855	2,929
OPEB actuarial changes (note 14)	868	985
TOTAL DEFERRED INFLOWS OF RESOURCES	<u>1,723</u>	<u>3,914</u>
NET POSITION (note 12)		
Net investment in capital assets	1,336,737	1,283,819
Restricted for water services	384,020	350,032
Restricted for sewer services	353,495	357,926
TOTAL NET POSITION	<u>\$ 2,074,252</u>	<u>\$ 1,991,777</u>

See accompanying notes to the basic financial statements.

Irvine Ranch Water District
Statement of Revenues, Expenses and Changes in Net Position
For the Fiscal Year Ended June 30, 2021
(with comparative data for the Fiscal Year Ended June 30, 2020)
(in thousands)

	<u>2021</u>	<u>2020</u>
OPERATING REVENUES		
Water sales and service charges	\$ 96,609	\$ 90,213
Sewer sales and service charges	<u>82,234</u>	<u>77,187</u>
Total operating revenues	<u>178,843</u>	<u>167,400</u>
OPERATING EXPENSES		
Water:		
Water services	79,221	67,792
General and administrative	22,433	21,600
Sewer:		
Sewer services	51,540	49,497
General and administrative	19,489	17,106
Depreciation	<u>68,002</u>	<u>67,554</u>
Total operating expenses	<u>240,685</u>	<u>223,549</u>
Operating income (loss)	<u>(61,842)</u>	<u>(56,149)</u>
NONOPERATING REVENUES (EXPENSES)		
Property taxes	67,734	66,375
Interest income	5,285	7,790
Increase (decrease) in fair value of investments	(4,643)	2,319
Real estate income (note 7)	15,372	18,175
Increase (decrease) in fair value of real estate investments (note 7)	25,702	552
Pension benefits trust interest and dividends income	4,431	3,274
Increase (decrease) in fair value of pension benefits trust investments	20,457	1,500
Other income	6,336	6,606
Interest expense	(20,754)	(22,167)
Real estate expense (note 7)	(5,550)	(5,627)
Pension benefits trust expense	(61)	(61)
Other expenses	<u>(1,432)</u>	<u>(5,239)</u>
Total nonoperating revenues (expenses)	<u>112,877</u>	<u>73,497</u>
Income (loss) before capital contributions	<u>51,035</u>	<u>17,348</u>
CAPITAL CONTRIBUTIONS		
Donated facilities	12,146	34,439
Connection fees	18,913	10,943
Other	<u>381</u>	<u>1,045</u>
Total capital contributions	<u>31,440</u>	<u>46,427</u>
Increase (decrease) in net position	82,475	63,775
NET POSITION AT BEGINNING OF YEAR	<u>1,991,777</u>	<u>1,928,002</u>
NET POSITION AT END OF YEAR	<u>\$ 2,074,252</u>	<u>\$ 1,991,777</u>

See accompanying notes to the basic financial statements.

Irvine Ranch Water District
Statement of Cash Flows
For the Fiscal Year ended June 30, 2021
(with comparative data for the Fiscal Year Ended June 30, 2020)
(in thousands)

	<u>2021</u>	<u>2020</u>
Cash flows from operating activities:		
Cash received from customers and users	\$ 172,350	\$ 169,821
Cash paid to suppliers of goods and services	(82,600)	(99,571)
Cash paid for employees services	<u>(66,915)</u>	<u>(63,943)</u>
Net cash provided by (used for) operating activities	<u>22,835</u>	<u>6,307</u>
Cash flows from noncapital financing activities:		
Property tax receipts	<u>67,734</u>	<u>66,375</u>
Net cash provided by noncapital financing	<u>67,734</u>	<u>66,375</u>
Cash flows from capital and related financing activities:		
Acquisition and construction of capital assets	(93,561)	(79,303)
Proceeds from disposition of capital assets	286	72
Payment to exit capital assets	-	(4,526)
Principal payments on long-term liabilities	(14,851)	(13,400)
Interest and fiscal agent costs on long term liabilities	(22,886)	(24,651)
Developer connection fees and related receipts	<u>19,294</u>	<u>11,988</u>
Net cash provided by (used for) capital and related financing activities	<u>(111,718)</u>	<u>(109,820)</u>
Cash flows from investing activities:		
Investment earnings	10,276	11,249
Investment earnings in real estate	18,932	14,143
Acquisition and construction of real estate investments	(1,007)	(14,174)
Proceeds from sale or maturity of investments	225,547	308,111
Purchases of investments	(266,283)	(278,058)
Collections on notes receivable	<u>76,611</u>	<u>73</u>
Net cash provided by (used for) investing activities	<u>64,076</u>	<u>41,344</u>
Net increase (decrease) in cash and cash equivalents	42,927	4,206
Cash and cash equivalents at beginning of year	<u>58,012</u>	<u>53,806</u>
Cash and cash equivalents at end of year	<u>\$ 100,939</u>	<u>\$ 58,012</u>

See accompanying notes to the basic financial statements.

Irvine Ranch Water District
Statement of Cash Flows
For the Fiscal Year ended June 30, 2021
(with comparative data for the Fiscal Year Ended June 30, 2020)
(in thousands)
(Continued)

	<u>2021</u>	<u>2020</u>
Reconciliation of cash and cash equivalents to amounts reported on the Statement of Net Assets:		
Cash and investments	\$ 421,911	\$ 347,261
Pension benefits trust investments	107,930	83,103
Subtotal	<u>529,841</u>	<u>430,364</u>
Less long-term investments	<u>(428,902)</u>	<u>(372,352)</u>
Cash and cash equivalents at end of year	<u><u>\$ 100,939</u></u>	<u><u>\$ 58,012</u></u>
Reconciliation of operating income to net cash provided by (used for) operating activities:		
Operating income (loss)	\$ (61,842)	\$ (56,149)
Adjustments to reconcile operating income to net cash provided by (used for) operating activities:		
Other nonoperating income	6,336	6,606
Other nonoperating expenses	(1,432)	(732)
(Gain) loss on disposition of capital assets	135	-
Depreciation and amortization	68,008	67,554
(Increase) decrease in customer receivables	(4,912)	909
(Increase) decrease in other receivables	(1,679)	1,086
(Increase) decrease in inventories	77	(1,217)
(Increase) decrease due from other agencies	7,246	(16,773)
(Increase) decrease in prepaid expenses and other assets	904	(1,081)
(Increase) decrease in investment in joint venture	(843)	-
(Increase) decrease in deferred outflows	(4,093)	(192)
Increase (decrease) in accounts payable and accrued expenses	4,379	(401)
Increase (decrease) in customer deposits and advance payments	663	990
Increase (decrease) in compensated absences	1,260	713
Increase (decrease) in claims payable	11	221
Increase (decrease) in unearned revenue	(565)	(564)
Increase (decrease) in net OPEB liability	5,135	1,562
Increase (decrease) in net pension liability	6,238	4,330
Increase (decrease) in deferred inflows	(2,191)	(555)
Net cash provided by (used for) operating activities	<u><u>\$ 22,835</u></u>	<u><u>\$ 6,307</u></u>
Noncash investing, capital and financing activities:		
Contributions of capital assets from developers	<u><u>\$ 12,146</u></u>	<u><u>\$ 34,439</u></u>

See accompanying notes to the basic financial statements.

Irvine Ranch Water District
Statement of Fiduciary Net Position
Fiduciary Fund - Custodial Fund
June 30, 2021
(with comparative data as of June 30, 2020)
(in thousands)

	<u>2021</u>	<u>2020</u>
ASSETS		
Cash and investments (note 2)	\$ 925	\$ 916
Interest receivable	-	1
TOTAL ASSETS	<u>925</u>	<u>917</u>
 NET POSITION		
Restricted for:		
San Joaquin Wildlife Sanctuary	<u>\$ 925</u>	<u>\$ 917</u>

See accompanying notes to the basic financial statements.

Irvine Ranch Water District
Statement of Changes in Fiduciary Net Position
Fiduciary Fund - Custodial Fund
For the Fiscal Year Ended June 30, 2021
(with comparative data for the Fiscal Year Ended June 30, 2020)
(in thousands)

	2021	2020
ADDITIONS		
Contributions	\$ 1	\$ -
Interest income	8	18
Total additions	9	18
DEDUCTIONS		
Administrative expenses	1	1
Total deductions	1	1
Increase (decrease) in net position	8	17
NET POSITION AT BEGINNING OF YEAR	917	900
NET POSITION AT END OF YEAR	\$ 925	\$ 917

See accompanying notes to the basic financial statements.

Irvine Ranch Water District
Notes to the Basic Financial Statements
For the Fiscal Year Ended June 30, 2021

(1) Summary of Significant Accounting Policies

(a) Reporting Entity

The Irvine Ranch Water District (District) was formed in 1961 as a special district under Division 13 of the California Water Code (the Act). The District provides potable and recycled water service as well as sewage collection, treatment, and disposal to users within its boundaries.

The District is divided geographically into eight water and ten sewer improvement districts (IDs), as well as several planning areas (PAs) that function as informal improvement districts. Each improvement district is a sub-fund of the District and their primary purpose is to allocate costs and funding on an equitable basis for the construction of water, sewer, and recycled water infrastructure. Most improvement districts have authority to issue general obligation bonds to finance the construction of capital facilities that were identified and valued in a Plan of Works specific to the improvement district. Each improvement district with authority to issue general obligation bonds also has the authority to levy and collect connection fees and ad valorem taxes on the land within its legal boundaries sufficient to meet its general obligation bond indebtedness.

Connection fees which are paid by developers and property taxes which are paid by property owners vary by improvement district based upon, among other considerations, total capital costs, ratio of developed to undeveloped land, and development densities; however, water and sewer user fees are uniform throughout the District.

Description of the Reporting Entity

The financial statements of the District include the financial activities of the following sub-fund improvement districts and planning areas:

111/222	Area Excluded from IDs
112/212	Former El Toro Marine Base
113/213	Former Tustin Marine Base
125/225	Developed/Underlay
240	Newport Coast/Newport Ridge
252	Santiago Hills
153/253	Irvine Business District /Spectrum /Shady Canyon/Laguna Laurel/East Orange
154	Santiago Canyon(s)
256	Orange Park Acres
185/285	Los Alisos Area
188/288	Portola Hills Commercial
110/210	Overall District Boundary

Irvine Ranch Water District
Notes to the Basic Financial Statements
For the Fiscal Year Ended June 30, 2021
(Continued)

(1) **Summary of Significant Accounting Policies (Continued)**

(a) **Reporting Entity (Continued)**

Blended Component Units - Blended component units although legally separate entities, are, in substance, part of the District's operations since they have the same governing board. The District has both financial accountability and operational responsibility for the blended component units. The District has the following blended component units:

The Irvine Ranch Water District Water Service Corporation – In January 1997, the District formed a 501(c)(4) corporation for the purpose of financing and acquiring water, sewer and other public improvements. The Corporation was created to effect the merger of the Santa Ana Heights Water Company and the issuance of the 2002 Certificates of Participation, 2008 Refunding Certificates of Participation, 2010 Refunding Certificates of Participation, and 2016 Certificates of Participation. The Corporation's bylaws mandate that the members of the District's Board of Directors shall constitute the Corporation's five-member Board of Directors. The Irvine Ranch Water District Water Service Corporation does not issue separate financial statements.

Bardeen Partners, Inc. – In March 1991, the District formed a 501(c)(4) corporation for the purpose of accounting for the financial data and transactions for certain District real estate investments, including the investments in Wood Canyon Villas, Sycamore Canyon Apartments, and Irvine Technology Center. Bardeen Partners is governed by a Board of Directors consisting of the five members of the District's Board of Directors. Bardeen Partners does not issue separate financial statements.

(b) **Basic Financial Statements**

The basic financial statements are comprised of the Statement of Net Position, the Statement of Revenues, Expenses and Changes in Net Position, the Statement of Cash Flows, the Statement of Fiduciary Net Position - Fiduciary Fund, the Statement of Changes in Fiduciary Net Position - Fiduciary Fund, and the Notes to the Basic Financial Statements.

(c) **Measurement Focus, Basis of Accounting and Financial Statement Presentation**

The District's financial activities are accounted for as an enterprise fund (proprietary fund type). A fund is an accounting entity with a self-balancing set of accounts established to record the financial position and results of operations of a specific governmental activity. The activities of enterprise funds closely resemble those of ongoing businesses in which the purpose is to conserve and add to basic resources while meeting operating expenses from current revenues. Enterprise funds account for operations that provide services on a continuous basis and are substantially financed by revenues derived from user charges.

Fiduciary Fund is used to account for assets held by the District as a custodian for the activities of the San Joaquin Wildlife Sanctuary (SJWS) are accounted as a custodial fund (fiduciary fund type).

Both the enterprise fund and fiduciary fund utilize the accrual basis of accounting. Revenues are recognized when earned and expenses are recognized as they are incurred. Internal activity has been eliminated in the accompanying basic financial statements.

Irvine Ranch Water District
Notes to the Basic Financial Statements
For the Fiscal Year Ended June 30, 2021
(Continued)

(1) **Summary of Significant Accounting Policies (Continued)**

(c) **Measurement Focus, Basis of Accounting and Financial Statement Presentation (Continued)**

The District distinguishes operating revenues and expenses from non-operating items. Operating revenues and expenses generally result from providing services and producing and delivering goods in connection with water and sewer operations. The principal operating revenues of the District are charges to customers for sales and services. Operating expenses include cost of sales and services, general and administrative expenses and depreciation of capital assets. All revenues and expenses not meeting this definition are reported as non-operating revenues and expenses.

Capital contributions consist of contributed capital assets, connection fees, grants and other charges that are legally restricted for capital expenditures by state law or by the Board action that established those charges.

Net position of the District is classified into two components: (1) net investment in capital assets and (2) restricted net position. These classifications are defined as follows:

Net Investment in capital assets – This component of net position consists of capital assets, net of accumulated depreciation reduced by the outstanding balances of notes or borrowing(s) that are attributable to the acquisition of the asset, construction, or improvement of those assets. If there are significant unspent related debt proceeds at year-end, the portion of the debt attributable to the unspent proceeds are not included in the calculation of net investment in capital assets.

Restricted net position – This component of net position consists of constraints placed on net position use through external constraints imposed by creditors (such as through debt covenants), grantors, contributors, or laws or regulations of other governments or constraints imposed by law through constitutional provisions or enabling legislation.

When both restricted and unrestricted resources are available for use, the District uses unrestricted resources first, and then restricted resources as they are needed. For capital expenditures, legally available restricted bond proceeds are used first, then other restricted resources, and then unrestricted resources are used if needed.

Irvine Ranch Water District
Notes to the Basic Financial Statements
For the Fiscal Year Ended June 30, 2021
(Continued)

(1) **Summary of Significant Accounting Policies (Continued)**

(d) **Property Taxes**

The District is authorized under the Act to levy taxes on all taxable property (lands only) within its boundaries for the purposes of paying certain of its debt obligations, subject to certain limitations in the Act, the Revenue and Taxation Code and the California Constitution. The District also receives a portion of the County's 1% ad valorem property taxes from certain lands within its boundaries. Property tax revenue is recognized in the fiscal year in which the taxes are levied.

The property tax calendar is as follows:

Lien date:	January 1
Levy date:	July 1
Due date:	First installment – November 1 Second installment – February 1
Delinquent date:	First installment – December 10 Second installment – April 10

The assessment, levy and collection of property taxes are the responsibility of the County of Orange, and are remitted to the District periodically.

(e) **Cash and Cash Equivalents**

For the purposes of the statement of cash flows, cash equivalents are defined as short-term, highly liquid investments that are both readily convertible to known amounts of cash or so near to their maturity that they present insignificant risk of changes in value because of changes in interest rates, and have an original maturity date of 3 months or less.

(f) **District Investments**

Investments are reported in the accompanying Statement of Net Position at fair value, except for certain investment contracts that are reported at cost because they are not transferable and they have terms not affected by changes in market interest rates.

Changes in fair value that occur during the fiscal year are recognized as increase (decrease) in fair value of investments reported for that fiscal year. Interest income includes interest earnings on the District's investments.

(g) **Pension Benefits Trust Investments**

Investments of the Pension Benefits Trust are reported in the accompanying Statement of Net Position at fair value.

Changes in fair value that occur during the fiscal year are recognized as increase (decrease) in fair value of investments reported for that fiscal year. Interest income is recorded on the accrual basis. Dividends are recorded on the payment date.

Irvine Ranch Water District
Notes to the Basic Financial Statements
For the Fiscal Year Ended June 30, 2021
(Continued)

(1) Summary of Significant Accounting Policies (Continued)

(h) Real Estate Investments

Real estate investments consist of a wholly-owned apartment complex and four commercial office properties. The District is also a party to a real estate limited partnership in which the District has more than a 50% ownership interest but does not exercise control. All real estate investments are reported at fair value. Changes in fair value that occur during the fiscal year are recognized as increase (decrease) in fair value of real estate investments reported for that fiscal year.

(i) Fair Value Measurements

Certain assets and liabilities are required to be reported at fair value. The fair value framework provides a hierarchy that prioritizes the inputs to valuation techniques used to measure fair value.

The hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1 measurements) and the lowest priority to unobservable inputs (Level 3 measurements). The three levels of fair value hierarchy are described as follows:

Level 1 - Inputs to the valuation methodology are unadjusted quoted prices for identical assets or liabilities in active markets.

Level 2 - Inputs other than quoted prices included within Level 1 that are observable for the asset or liability, either directly or indirectly and fair value is determined through the use of models or other valuation methodologies including:

- Quoted prices for similar assets or liabilities in active markets
- Quoted prices for identical or similar assets or liabilities in markets that are inactive
- Inputs other than quoted prices that are observable for the asset or liability
- Inputs that are derived principally from or corroborated by observable market data by correlation or other means

Level 3 - Inputs to the valuation methodology are unobservable and significant to the fair value measurement. These unobservable inputs reflect the District's own assumptions about the inputs market participants would use in pricing the asset or liability (including assumptions about risk). These unobservable inputs are developed based on the best information available in the circumstances and may include the District's own data.

Irvine Ranch Water District
Notes to the Basic Financial Statements
For the Fiscal Year Ended June 30, 2021
(Continued)

(1) Summary of Significant Accounting Policies (Continued)

(j) Inventory and Prepaid Items

Water inventory related to water stored in its banking facilities in Kern County is stated at its purchase cost or at a rate equivalent to what the District would charge for storage. The District's warehouse materials and supplies are valued using the average cost method. Inventory is recorded when purchased, and expensed at the time the inventory is consumed. Certain payments to vendors reflect costs applicable to future accounting periods and are recorded as prepaid items.

(k) Capital Assets and Depreciation

Capital assets are valued at cost where historical records are available and at an estimated historical cost where no historical records exist. Donated assets are valued at their estimated acquisition value on the date received. The District capitalizes all assets with a historical cost of at least \$10,000 and a useful life of at least three years. The cost of normal maintenance and repairs that do not add to the value of the assets or materially extend asset lives are not capitalized.

Depreciation is computed utilizing the straight-line method over the following estimated useful lives:

Buildings and Structures	3 to 100 years
Transmissions and Distributions	10 to 75 years
Machinery and Equipment	3 to 50 years

(l) Compensated Absences

The District's policy permits employees to accumulate earned but unused vacation and sick leave benefits up to certain limits. Earned vacations pay to a maximum of 400 hours (or more with written approval of the General Manager). Sick leave hours accrue at the rate of one day per month and employees may elect to receive cash for accumulated sick leave for up to 96 hours in excess of the first 80 hours accumulated. Fifty percent of accumulated sick leave up to a maximum of 960 hours may be paid upon termination of employment. All accumulated vacation and vested sick leave pay is recorded as expense at the time the benefit is earned.

(m) Pensions

For purposes of measuring the net pension liability, deferred outflows and inflows of resources relating to pensions and pension expense, information about the fiduciary net position of the District's California Public Employees' Retirement System (CalPERS) plan (Plan) and additions to/deductions from the Plan's fiduciary net position have been determined on the same basis as they are reported by CalPERS. For this purpose, benefit payments (including refunds of employee contributions) are recognized when due and payable in accordance with the benefit terms. Investments are reported at fair value.

Irvine Ranch Water District
Notes to the Basic Financial Statements
For the Fiscal Year Ended June 30, 2021
(Continued)

(1) Summary of Significant Accounting Policies (Continued)

(m) Pensions (Continued)

GASB requires that the reported results must pertain to liability and asset information within certain defined timeframes. For this report, the following timeframes are used:

Valuation Date (VD)	June 30, 2019
Measurement Date (MD)	June 30, 2020
Measurement Period (MP)	July 1, 2019 to June 30, 2020

(n) Other Post-Employment Benefits (OPEB)

The OPEB liability, deferred outflows and inflows of resources relating to OPEB and OPEB expense have been determined by an independent actuary. Benefit payments are recognized when currently due and payable in accordance with the benefit terms.

GASB requires that the reported results pertain to liability and asset information within certain defined timeframes. For this report, the following timeframes are used:

Valuation Date (VD)	June 30, 2020
Measurement Date (MD)	June 30, 2020
Measurement Period (MP)	July 1, 2019 to June 30, 2020

(o) Deferred Outflows/Inflows of Resources

In addition to assets, the Statement of Net Position reports a separate section for deferred outflows of resources. This separate financial statement element, deferred outflows of resources, represents a consumption of net position that applies to a future period(s) and so will not be recognized as an outflow of resources (expense/expenditure) until then. The District has the following items that qualify for reporting in this category:

- Deferred refunding charges
- Accumulated decrease in fair value of swap agreements
- Employer contributions subsequent to measurement date for pension and OPEB
- Deferred actuarial amounts related to pension and OPEB

In addition to liabilities, the Statement of Net Position reports a separate section for deferred inflows of resources. This separate financial statement element, deferred inflows of resources, represents an acquisition of net position that applies to a future period(s) and so will not be recognized as an inflow of resources (revenue) until that time. The District has the following items that qualify for reporting in this category:

- Deferred actuarial amounts related to pension and OPEB

Irvine Ranch Water District
Notes to the Basic Financial Statements
For the Fiscal Year Ended June 30, 2021
(Continued)

(1) **Summary of Significant Accounting Policies (Continued)**

(p) **Use of Estimates**

The preparation of financial statements in conformity with generally accepted accounting principles requires management to make estimates and assumptions that affect certain reported amounts and disclosures. Accordingly, actual results could differ from those estimates.

(q) **Comparative Financial Statements and Reclassifications**

The information included in the accompanying financial statements for the prior year has been presented for comparison purposes only and does not represent a complete presentation in accordance with generally accepted accounting principles. Certain amounts presented in the prior year financial statements have been reclassified in order to be consistent with the current year's presentation.

(2) **Cash and Investments**

Cash and investments as of June 30, 2021 are classified in the accompanying financial statements as follows (in thousands):

Statement of Net Position:

District Cash and Investments	\$ 421,911
Pension Benefits Trust Investments	107,930
Total Cash and Investments	529,841

Fiduciary Fund - Custodial Fund:

Cash and Investments	925
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Total Cash and Investments

\$ 530,766

Cash and investments as of June 30, 2021 consist of the following (in thousands):

District Cash and Investments:

Cash on hand	\$ 3
Deposits with financial institutions	25,175
Investments	396,733
Total District Cash and Investments	421,911

Pension Benefits Trust Cash and Investments:

Equities - mutual funds	84,500
Fixed income bonds - mutual funds	23,352
Money market - mutual funds	78
Total Pension Benefits Trust Cash and Investments	107,930

Fiduciary Fund - Custodial Fund:

Deposits with financial institutions	925
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Total Cash and Investments

\$ 530,766

Irvine Ranch Water District
Notes to the Basic Financial Statements
For the Fiscal Year Ended June 30, 2021
(Continued)

(2) **Cash and Investments (Continued)**

The following table identifies the investment types that are authorized for the District by the California Government Code, the California Water Code, and the District's investment policy, whichever is most restrictive. The table also identifies certain provisions that address interest rate risk and concentration of credit risk.

Authorized Investment Type	Maximum Maturity⁽¹⁾	Maximum Percentage of Portfolio	Maximum Investment in One Issuer
Local Agency Bonds	5 years	None	None
U.S. Treasury Obligations	5 years	None	None
U.S. Agency Securities	5 years	None	None
Bankers Acceptances	180 days	40%	30%
Commercial Paper	270 days	25%	10%
Negotiable Certificates of Deposit	5 years	30%	None
Repurchase Agreements	1 year	None	None
Reverse Repurchase Agreements	92 days	20% of base value	None
Medium-Term Notes	5 years	30%	None
Money Market Mutual Funds	N/A	20%	10%
Mortgage Pass-Through Securities	5 years	20%	None
Orange County Treasury Pool	N/A	None	None
Local Agency Investment Fund (LAIF)	N/A	None	None
Real Estate Investments	N/A	30% ⁽²⁾	None

⁽¹⁾ Maximum maturity unless express authority has been granted otherwise by the Board of Directors pursuant to the California Government Code Section 53601.

⁽²⁾ 30% of Replacement Fund, as authorized by the California Water Code.

Irvine Ranch Water District
Notes to the Basic Financial Statements
For the Fiscal Year Ended June 30, 2021
(Continued)

(2) **Cash and Investments (Continued)**

Pension Benefits Trust (The Trust) Authorized Investment Strategy

The District recognizes that defined benefit plans and the related future pension obligations pose significant issues for many government agencies. The District has taken a proactive approach to address the issue and in 2013, established a Pension Benefits Trust to substantially fund its PERS unfunded liability. The Trust’s investment policy authorizes investment of Trust assets in financial instruments in three broad categories: equity, fixed income, and real estate. These financial instruments can include, but are not limited to, corporate bonds, commercial paper, U.S. government securities, common and preferred stock, real estate investment trusts, and mutual funds. Investments may include derivatives, options and futures as portfolio protection strategies. The following is a summary of the Trust’s investment policy.

The Trust is governed by a Retirement Board (the Board) which consists of two IRWD Board members and the General Manager. The Board designates one or more investment advisors to manage the assets under their supervision subject to the laws of the State of California and Investment Guidelines established by the Board. The long-term asset allocation policy including the minimum-maximum asset allocation range for each asset class is as follows:

Asset Classes	Minimum	Maximum
Cash	0%	30%
Public Equity- Domestic & International	30%	80%
Private Equity	0%	5%
Fixed Income	10%	40%
Real Estate	0%	10%

The asset allocation policy will be pursued by the Trust on a long-term basis and may be revised if necessary due to market conditions. The Board will monitor the current asset allocation against the long-term allocation policy and rebalance as it deems necessary.

Cash equivalent reserves shall consist of cash instruments having a quality rating of A-1, P-1 or higher, as established by Moody's or Standard & Poor's. Bankers' acceptances, certificates of deposit and savings accounts must be made of United States banks or financial institutions or United States branches of foreign banks, which are federally insured with unrestricted capital of at least \$50 million. Short-term corporate obligations must be rated A or better by Moody’s or by Standard & Poor's.

Irvine Ranch Water District
Notes to the Basic Financial Statements
For the Fiscal Year Ended June 30, 2021
(Continued)

(2) **Cash and Investments (Continued)**

Pension Benefits Trust Authorized Investment Strategy (Continued)

Equity investments are restricted to high quality, readily marketable securities of corporations that are actively traded on a major exchange. Not more than 5% of the total stock portfolio valued at fair value may be invested in the common stock of any one corporation. Ownership of the shares of one company shall not exceed 2% of those outstanding. Not more than 25% of stock valued at fair value may be held in any one industry category. The overall non-U.S. equity allocation should include a diverse global mix of at least 10 countries. The emerging markets exposure as defined by Morgan Stanley Capital International Inc. should be limited to 35% of the non-U.S. portion of the portfolio.

Fixed income securities of any one issuer shall not exceed 5% of the total bond portfolio, at time of purchase. The 5% limitation does not apply to issues of the U.S. Treasury or other Federal Agencies. The overall rating of the fixed income assets shall be at least "A", according to one of the three rating agencies (Fitch, Moody's or Standard & Poor's). In cases where the yield spread adequately compensates for additional risk, securities where two of the three rating agencies (Fitch, Moody's or Standard & Poor's) have assigned ratings of Baa3 or BBB- ratings, can be purchased up to a maximum of 20% of total fair value of fixed income securities.

Custodial Credit Risk

Custodial credit risk for *deposits* is the risk that, in the event of the failure of a depository financial institution, a government will not be able to recover its deposits or will not be able to recover collateral securities that are in the possession of an outside party. The custodial credit risk for *investments* is the risk that, in the event of the failure of the counterparty (e.g., broker-dealer) to a transaction, a government will not be able to recover the value of its investment or collateral securities that are in the possession of another party. The California Government Code requires that a financial institution secure deposits made by state or local governmental units by pledging securities in an undivided collateral pool held by a depository regulated under state law (unless so waived by the governmental unit). The fair value of the pledged securities in the collateral pool must equal at least 110% of the total amount deposited by the public agencies. California law also allows financial institutions to secure public agency deposits by pledging first trust deed mortgage notes having a value of 150% of the secured public deposits.

Irvine Ranch Water District
Notes to the Basic Financial Statements
For the Fiscal Year Ended June 30, 2021
(Continued)

(2) **Cash and Investments (Continued)**

Disclosures Relating to Interest Rate Risk

Interest rate risk is the risk that changes in market interest rates will adversely affect the fair value of an investment. Generally, the longer the maturity of an investment, the greater the sensitivity of its fair value to changes in market interest rates. One of the ways that the District manages its exposure to interest rate risk is by purchasing a combination of shorter term and longer term investments and by timing cash flows from maturities so that a portion of the portfolio is maturing or coming near to maturity as necessary to provide the cash flow and liquidity needed for District operations.

Information about the sensitivity of the fair values of the District's and Pension Benefits Trust's investments to market interest rate fluctuations is provided by the following table that shows the distribution of the investments by maturity (in thousands):

Investment Type	Amount	Remaining Maturity			
		12 Months Or Less	13 to 36 Months	37 Months Or More	Not Applicable
Federal Agency Securities	\$ 145,822	\$ 135,632	\$ 10,190	\$ -	\$ -
US Treasury Note	175,905	155,913	19,992	-	-
Local Agency Investment Fund	75,006	75,006	-	-	-
Total District Investments	396,733	366,551	30,182	-	-
Mutual Funds - Equities	84,500	-	-	-	84,500
Mutual Funds - Fixed Income Bonds	23,352	883	2,007	20,462	-
Mutual Funds - Money Market	78	78	-	-	-
Total Pension Benefits Trust Investments	107,930	961	2,007	20,462	84,500
Total	\$ 504,663	\$ 367,512	\$ 32,189	\$ 20,462	\$ 84,500

Irvine Ranch Water District
Notes to the Basic Financial Statements
For the Fiscal Year Ended June 30, 2021
(Continued)

(2) **Cash and Investments (Continued)**

Disclosures Relating to Credit Risk

Generally, credit risk is the risk that an issuer of an investment will not fulfill its obligation to the holder of the investment. This is measured by the assignment of a rating by a nationally recognized statistical rating organization. Presented below is the actual rating as of year-end for each investment type (in thousands):

District Cash and Investments:

<u>Investment Type</u>	<u>Amount</u>	<u>AAA</u>	<u>Not Rated</u>
Federal Agency Securities	\$ 145,822	\$ 130,823	\$ 14,999
US Treasury Note	175,905	175,905	-
Local Agency Investment Fund	75,006	-	75,006
Total	<u>\$ 396,733</u>	<u>\$ 306,728</u>	<u>\$ 90,005</u>

Pension Benefits Trust Investments:

<u>Investment Type</u>	<u>Amount</u>
Mutual Funds - Equities	\$ 84,500 ⁽¹⁾
Mutual Funds - Fixed Income Bonds	23,352 ⁽²⁾
Mutual Funds - Money Market	78 ⁽³⁾
Total	<u>\$ 107,930</u>

⁽¹⁾ Equity Mutual Funds as of 6/30/2021 include four “index funds” and are each comprised of diversified portfolios of equity securities. Credit ratings are not provided for Equity Mutual Funds.

⁽²⁾ Fixed Income Mutual Funds are comprised of four diversified portfolios of fixed income securities. As of 6/30/2021, 56.20% of the holdings were rated A-AAA, 40.99% of the holdings were rated B-BBB, and 2.81% of the holdings were rated below B or Not Rated.

⁽³⁾ The Money Market Mutual Fund is not rated.

The District is a voluntary participant in the Local Agency Investment Fund (LAIF) that is regulated by the California Government Code under the oversight of the Treasurer of the State of California. The fair value of the District’s investment in this pool is reported in the accompanying financial statements at amounts based upon the District’s pro-rata share of the fair value provided by LAIF for the entire LAIF portfolio (in relation to the amortized cost of that portfolio). The balance available for withdrawal is based on the accounting records maintained by LAIF, which are recorded on an amortized cost basis.

Irvine Ranch Water District
Notes to the Basic Financial Statements
For the Fiscal Year Ended June 30, 2021
(Continued)

(2) **Cash and Investments (Continued)**

Concentration of Credit Risk

The investment policy of the District contains no limitations on the amount that can be invested in any one issuer beyond that stipulated by the California Government Code. Investments in any one issuer (other than U.S. Treasury securities, mutual funds, and external investment pools) that represent 5% or more of total District investments are as follows (in thousands):

<u>Issuer</u>	<u>Investment Type</u>	<u>Amount</u>
FFCB	Federal Agency Securities	\$ 65,324
FHLB	Federal Agency Securities	55,272
Total		<u><u>\$ 120,596</u></u>

Disclosures Relating to Fair Value Measurements

The District categorizes its fair value investments within the fair value hierarchy established by generally accepted accounting principles. The District has the following fair value measurements as of June 30, 2021 (in thousands):

District Cash and Investments:

<u>Investment Type</u>	<u>Amount</u>	<u>Fair Value Measurements</u>	
		<u>Level 1</u>	<u>Level 2</u>
Federal Agency Securities	\$ 145,822	\$ -	\$ 145,822
US Treasury Note	175,905	175,905	-
Local Agency Investment Fund	75,006 ⁽¹⁾	-	-
Total	<u><u>\$ 396,733</u></u>	<u><u>\$ 175,905</u></u>	<u><u>\$ 145,822</u></u>

Pension Benefits Trust Cash and Investments:

<u>Investment Type</u>	<u>Amount</u>	<u>Fair Value</u>
		<u>Measurements</u>
		<u>Level 1</u>
Mutual Funds - Equities	\$ 84,500	\$ 84,500
Mutual Funds - Fixed Income Bonds	23,352	23,352
Mutual Funds - Money Market	78 ⁽¹⁾	-
Total	<u><u>\$ 107,930</u></u>	<u><u>\$ 107,852</u></u>

⁽¹⁾ These are not subject to the fair value measurements classification.

Irvine Ranch Water District
Notes to the Basic Financial Statements
For the Fiscal Year Ended June 30, 2021
(Continued)

(3) Interest Rate Swap Agreements

In September 2003, the District's Board of Directors approved a policy regarding the use of interest rate swap transactions. The policy provides that interest rate swap transactions will be designed to enhance the relationship between risk and return with respect to an investment or a program of investments entered into by the District; and/or to reduce the amount or duration of payment, rate, spread, or similar risk; and/or result in a lower cost of borrowing when used in combination with bonds or other indebtedness of the District. Pursuant to the policy, the Board of Directors authorizes general parameters for interest rate swap transactions while the Finance and Personnel Committee structures specific transactions within the Board-authorized parameters. The Treasurer, with the concurrence of the Chairman of the Finance and Personnel Committee, is authorized to enter into interest rate swap transactions that are within all authorized parameters.

The International Swaps and Derivatives Association, Inc. (ISDA) Master Agreement, including the schedule and credit support annex, is used as the form of contract with interest rate swap counterparties. The District is compliant with all Dodd-Frank Protocol provisions regarding swap advisor representation and transparency.

The outstanding interest rate swaps are pay-fixed, receive variable swaps ("fixed payer swaps"). As of June 30, 2021, the notional amount and fair value balance of the District's interest rate swaps are \$60.0 million and \$(20.4) million, respectively. For the year ended June 30, 2021, the increase in fair value of the fixed payer interest rate swaps was \$6.7 million.

The fair value of the swap agreements at June 30, 2021 is calculated using a zero-coupon method (Level 2 inputs). This method calculates the future net settlement payments required by the swaps, assuming, for the LIBOR fixed payer swaps, that the current LIBOR forward rates implied by the LIBOR yield curves correctly anticipate future LIBOR spot interest rates. These payments are discounted using the spot rates implied by the current yield curves for hypothetical zero-coupon bonds due on the date of each future net settlement of the swaps.

The District's fixed payer swaps were executed in 2004 and became effective in 2007. The purpose of the fixed payer swaps was to hedge a portion of the interest rate risk exposure associated with the District's 100% variable rate debt structure at the time the swaps were executed. The interest rate swap notional amounts and maturities are not specifically related to a particular District debt issue, however are considered a hedge of a pooled portion of the District's variable rate debt exposure. The following table displays the objective and terms of the District's interest rate swaps outstanding at June 30, 2021, along with the credit rating of the associated counterparty.

Irvine Ranch Water District
Notes to the Basic Financial Statements
For the Fiscal Year Ended June 30, 2021
(Continued)

(3) **Interest Rate Swap Agreements (Continued)**

Current Year Active Interest Rate Swaps (in thousands):

Type	Objective	Notional Amount	Effective Date	Maturity Date	Terms	Counterparty Rating
Fixed Payer	Hedge of changes in cash flows on pool of variable rate debt issues	\$30,000	3/10/07	3/10/29	Pay 5.687%; receive 1-Mo. LIBOR	Aa2/A+/AA
Fixed Payer	Hedge of changes in cash flows on pool of variable rate debt issues	\$30,000	3/10/07	3/10/29	Pay 5.687%; receive 1-Mo. LIBOR	Aa3/A+/A+

The ISDA agreements for the above referenced interest rate swaps include a provision that the counterparties shall be required to post collateral should the mark-to-market value of the total interest rate swap portfolio with the respective counterparty, including any current outstanding swap accruals, exceed a threshold of \$(15.0) million. The amount of the collateral posted shall be the amount of the mark-to-market value and outstanding swap accrual amounts in excess of \$(15.0) million. As of June 30, 2021, the mark-to-market value of the total interest rate swaps with Citibank N.A. and Bank of America, N.A. as counterparties did not exceed the threshold amount.

Credit risk: The District is exposed to credit risk on interest rate swaps. To minimize its exposure to loss related to credit risk, the District's policy requires that the Finance and Personnel Committee evaluate and approve the counterparty creditworthiness of each counterparty prior to executing an ISDA Agreement, and all current swap agreements include collateral posting provisions. These terms require full collateralization of the fair value of interest rate swaps in asset positions (net of the effect of applicable netting arrangements) should the counterparty's credit rating fall below BBB+ as issued by Fitch Ratings and Standard & Poor's or Baa1 as issued by Moody's Investors Service. Collateral posted is to be in the form of U.S. Treasuries, or other approved securities, held by a third-party custodian.

The District has executed interest rate swap transactions with two counterparties. Their ratings are Aa2/A+/AA (50% of net exposure to credit risk) and Aa3/A+/A+ (50% of net exposure to credit risk) as of June 30, 2021.

Interest rate risk: The District is exposed to interest rate risk on its interest rate swaps. On its fixed payer swaps, as LIBOR's swap index decreases, the District's net payment on the swap increases. Alternatively, on its fixed payer swaps, as LIBOR's swap index increases, the District's net payment on the swap decreases.

Irvine Ranch Water District
Notes to the Basic Financial Statements
For the Fiscal Year Ended June 30, 2021
(Continued)

(3) Interest Rate Swap Agreements (Continued)

Basis risk: The District is exposed to basis risk on its fixed payer swaps because the variable-rate payments received by the District on these swaps are based on a rate or index other than interest rates the District pays on its variable-rate debt, which is remarketed daily or weekly.

Termination risk: The District or its counterparties may terminate an interest rate swap if the other party fails to perform under the terms of the contract. If at the time of termination, an interest rate swap is in a liability position, the District would be liable to the counterparty for a payment equal to the liability, subject to netting arrangements.

Collateral requirements: All of the District's interest rate swaps include provisions that require the District to post collateral in the event its credit rating falls below A as issued by Fitch Ratings and Standard & Poor's or A2 as issued by Moody's Investors Service.

The collateral posted is to be in the form of U.S. Treasuries or other approved securities in the amount of the fair value of interest rate swaps in liability positions net of the effect of applicable netting arrangements. If the District does not post collateral, the swaps may be terminated by the counterparty. The District's credit rating is Aa1/AAA/AAA; therefore, no collateral has been posted at June 30, 2021.

(4) Inventories

Inventories consist of available water in storage and materials and supplies in the District's warehouse facilities. As of June 30, 2021, the District had 35,703 acre-feet of banked water in various water bank facilities at a cost of \$7.5 million. Inventories at June 30, 2021 consisted of the following (in thousands):

Water in storage	\$ 7,496
Materials and supplies	<u>9,810</u>
Total	<u>\$ 17,306</u>

Irvine Ranch Water District
Notes to the Basic Financial Statements
For the Fiscal Year Ended June 30, 2021
(Continued)

(5) Capital Assets

Capital asset activity for the year ended June 30, 2021 is as follows (in thousands):

	Balance			Balance
	June 30, 2020	Additions	Deletions	June 30, 2021
Capital assets, depreciable:				
Land leasehold	\$ 4,860	\$ -	\$ -	\$ 4,860
Buildings and structures	753,704	9,362	(1,538)	761,528
Transmissions and distributions	1,477,626	65,451	(501)	1,542,576
Machinery and equipment	284,658	3,240	(853)	287,045
Sub-total	2,520,848	78,053	(2,892)	2,596,009
Less: Accumulated depreciation:				
Land leasehold	(1,456)	(97)	-	(1,553)
Buildings and structures	(320,281)	(17,510)	62	(337,729)
Transmissions and distributions	(495,644)	(40,107)	462	(535,289)
Machinery and equipment	(171,653)	(10,288)	646	(181,295)
Sub-total	(989,034)	(68,002)	1,170	(1,055,866)
Total depreciable capital assets, net	1,531,814	10,051	(1,722)	1,540,143
Capital assets, non-depreciable:				
Land and water rights	125,598	967	-	126,565
Construction in progress	330,388	101,579	(74,892)	357,075
Total capital assets, net	\$ 1,987,800	\$ 112,597	\$ (76,614)	\$ 2,023,783

Total projects transferred from Construction in Progress to Capital Assets and depreciated during the fiscal year ended June 30, 2021 were \$74.9 million. The District's proportionate share of the Orange County Sanitation District's jointly funded capital assets increased \$2.9 million during the fiscal year ended June 30, 2021.

Certain administrative and general expenses relating to assets under construction are charged to construction-in-progress until the assets are ready for their intended use. The amount of administrative and general expenses capitalized to construction-in-progress for the fiscal year ended June 30, 2021 was \$12.4 million.

(6) Orange County Sanitation District (OC San)

The District, with OC San, negotiated an agreement as of July 1, 1985, which has been amended from time to time. The District agreed to annually fund payment of the District's proportionate share of OC San's joint capital outlay revolving fund (CORF) budget requirements and certain capital improvements, calculated on an annual flow basis using the four highest months of actual flows, during the term of the agreement.

The capital assets associated with this agreement are co-owned by the two agencies and provide an operational benefit to both agencies. During the fiscal year ended June 30, 2021, the District received a credit of \$1.3 million of the equity integration adjustment of OC San's capital assets. In addition, the District's CORF payments to OC San for the fiscal year ended June 30, 2021 totaled \$4.2 million. The District's share of the jointly funded capital assets and CORF is included in capital assets in the District's basic financial statements.

Irvine Ranch Water District
Notes to the Basic Financial Statements
For the Fiscal Year Ended June 30, 2021
(Continued)

(6) Orange County Sanitation District (OC San) (Continued)

In May 2018, the District and OC San agreed to extend the agreement, providing for treatment and disposal by OC San of District solids and the temporary lease of capacity in OC San's solids treatment and disposal facilities through December 31, 2021. The capacity lease for the fiscal year ended June 30, 2021, estimated at \$1.8 million, is included in Sewer Services as an operating expense.

The accompanying basic financial statements reflect management's best estimate of balances pertaining to this agreement based upon information provided by OC San. Periodically this information is subjected to further review by the performance of agreed upon procedures when the records for such review have been made available to the District. Adjustments pertaining to the accounting estimates associated with this agreement are recognized as the information for such adjustments becomes available. As of June 30, 2021, the District had a net receivable of \$27.8 million from OC San which is reflected as a due from other agencies in the District's basic financial statements.

(7) Real Estate Investments

Real estate investments as of June 30, 2021 consist of the following (in thousands):

Real estate investments at fair value	\$ 271,009
Other assets	<u>481</u>
Total	<u><u>\$ 271,490</u></u>

The District has the following fair value measurements for the real estate investments (Level 3 inputs) (in thousands):

	Balance	Increase /	Capital	Balance
	June 30, 2020	(decrease)	Additions	June 30, 2021
		in Fair Value		
Wood Canyon Villas, L.P.	\$ 30,433	\$ 1,826	\$ -	\$ 32,259
Sycamore Canyon Apartments	152,341	16,964	695	170,000
230 Commerce Office Property	11,965	35	-	12,000
Waterworks Way Business Park	9,363	2,237	-	11,600
Sand Canyon Professional Center	11,444	456	-	11,900
Sand Canyon General Office	28,770	4,184	296	33,250
Total	<u>\$ 244,316</u>	<u>\$ 25,702</u>	<u>\$ 991</u>	<u>\$ 271,009</u>

Net real estate income as of June 30, 2021 is as follows (in thousands):

Real estate income	\$ 15,372
Increase (decrease) in fair value of real estate investments	25,702
Real estate expense	<u>(5,550)</u>
Net real estate income	<u><u>\$ 35,524</u></u>

Irvine Ranch Water District
Notes to the Basic Financial Statements
For the Fiscal Year Ended June 30, 2021
(Continued)

(7) Real Estate Investments (Continued)

Included in real estate investments are two apartment properties and four commercial office buildings. The District, through Bardeen Partners, Inc., is the sole limited partner in Wood Canyon Villas, L.P. (Wood Canyon), and the sole owner of both Sycamore Canyon Apartments and a commercial office building (230 Commerce). Separate from Bardeen Partners, Inc., the District is the sole owner of three other commercial office buildings (Waterworks Way Business Park, Sand Canyon Professional Center, and Sand Canyon General Office.) The construction of the Sand Canyon General Office was completed in August 2020. In addition, the \$76.5 million loan receivable plus \$9.4 million of accrued interest from the sale of the Serrano Summit property was paid off in August 2020.

The construction of Wood Canyon Villas, a 230-unit apartment property, was completed in 1993. The property is located in Orange County, California, and was 97% occupied at June 30, 2021. The Wood Canyon partnership agreement provides the District with a 9% cumulative preferred return on its unrecovered contribution accounts, as defined in the agreement (\$6.0 million contribution). The property's fair value and the District's partnership interest were based on a fixed growth factor per the limited partnership agreement.

In 1992, the District acquired a 450-unit apartment property (original cost, \$34.1 million) in Orange County, California known as Sycamore Canyon Apartments. The property was 99% occupied at June 30, 2021. The Sycamore Canyon Apartments completed a renovation project in 2007 for a total cost of \$9.6 million. The property's fair value was determined using an appraisal valuation in 2021.

In 2003, the District completed construction of the 41,000 square foot for-lease 230 Commerce professional office building located in Irvine, California. Land and construction costs for the project totaled \$5.6 million and the building was 82% occupied as of June 30, 2021. The property's fair value was determined using an appraisal valuation in 2021.

In November 2008, the District completed construction of a 37,200 square foot for-lease R&D office building located in Irvine, California known as the Waterworks Way Business Park. Construction of the building was a specific facilities requirement of the purchase agreement for land acquired for an adjacent District water treatment facility. Land and construction costs for the office project totaled \$9.0 million. As of June 30, 2021, the building was 100% occupied. The property's fair value was determined using an appraisal valuation in 2021.

In April 2012, the District completed construction of a 16,350 square foot for-lease medical office building located in Irvine, California known as the Sand Canyon Professional Center. Land and construction costs for the project totaled \$8.4 million and the building was 100% occupied as of June 30, 2021. The property's fair value was determined using an appraisal valuation in 2021.

In August 2020, the District completed construction of a new for-lease 70,000 square foot office building located in Irvine, California known as the Sand Canyon General Office. Land and construction costs for the project totaled \$25.4 million and the building was vacant as of June 30, 2021. The property's fair value was determined using an appraisal valuation in 2021.

Irvine Ranch Water District
Notes to the Basic Financial Statements
For the Fiscal Year Ended June 30, 2021
(Continued)

(8) Investment in Joint Venture

The District is a participant with the Rosedale-Rio Bravo Water Storage District (RRB) in a joint venture to design, build and operate a Kern Fan Groundwater Storage Project. The Groundwater Banking Joint Powers Authority (GBJPA), a legally separate public agency, was created for that purpose effective July 1, 2020. The GBJPA is governed by a four-member board composed of two appointees from the District and two appointees from the RRB. The District and the RRB are each obligated by contract to provide equal funding (50-50) of the costs and are each entitled to one-half of the GBJPA's annual operating income or loss, if any. The District's net investment in the joint venture represents its proportionate share of capital and operating expenses of the GBJPA. The District's investment in the GBJPA was \$0.8 million at June 30, 2021. Complete financial statements for the GBJPA can be obtained from the GBJPA's office at 849 Allen Road, Bakersfield, CA 93314.

(9) Long-Term Liabilities

Long-term liability activity for the year ended June 30, 2021 is as follows (in thousands):

	Balance June 30, 2020	Additions	Deletions	Balance June 30, 2021	Due within One Year	Due in more than one Year
General Obligation Bonds:						
1993 C Consolidated	\$ 26,600	\$ -	\$ (1,800)	\$ 24,800	\$ 1,800	\$ 23,000
2008A Refunding	46,500	-	(1,500)	45,000	2,000	43,000
2009A Consolidated	55,000	-	(2,500)	52,500	2,500	50,000
2009B Consolidated	55,000	-	(2,500)	52,500	2,500	50,000
2010B BABS	175,000	-	-	175,000	-	175,000
2011A-1 Refunding	46,500	-	(1,800)	44,700	1,920	42,780
2011A-2 Refunding	31,000	-	(1,200)	29,800	1,280	28,520
2016 Consolidated	103,400	-	-	103,400	2,155	101,245
Unamortized Premium	23,645	-	(924)	22,721	924	21,797
Sub-total	562,645	-	(12,224)	550,421	15,079	535,342
Certificates of Participation:						
2016 Certificates	116,745	-	(3,420)	113,325	3,675	109,650
Unamortized Premium	26,283	-	(1,375)	24,908	1,376	23,532
Sub-total	143,028	-	(4,795)	138,233	5,051	133,182
Notes Payable	419	-	(72)	347	74	273
Other Long-Term Liabilities:						
Compensated Absences	5,366	4,823	(3,564)	6,625	2,650	3,975
Other Long-Term Liabilities	853	3,085	(3,143)	795	111	684
Sub-total	6,219	7,908	(6,707)	7,420	2,761	4,659
Total Long-Term Liabilities	\$ 712,311	\$ 7,908	\$ (23,798)	\$ 696,421	\$ 22,965	\$ 673,456

Irvine Ranch Water District
Notes to the Basic Financial Statements
For the Fiscal Year Ended June 30, 2021
(Continued)

(9) **Long-Term Liabilities (Continued)**

The following schedule summarizes the major terms of outstanding long-term debt (in thousands):

	Date of Issue	Original Issue	Revenue Sources	Final Maturity Date	Interest Rates
General Obligation Bonds:					
1993 Consolidated	5/1/1993	\$ 38,300	(1)(3)	4/1/2033	Variable
2008A Refunding	4/1/2008	60,215	(1)(3)	7/1/2035	Variable
2009A Consolidated	6/4/2009	75,000	(1)(3)	10/1/2041	Variable
2009B Consolidated	6/4/2009	75,000	(1)(3)	10/1/2041	Variable
2010B BABS	12/16/2010	175,000	(1)(2)(3)	5/1/2040	6.60%
2011A-1 Refunding	4/15/2011	60,545	(1)(2)(3)	10/1/2037	Variable
2011A-2 Refunding	4/15/2011	40,370	(1)(2)(3)	10/1/2037	Variable
2016 Consolidated	10/12/2016	103,400	(1)(2)(3)	2/1/2046	5.00%-5.25%
Certificates of Participation:					
2016 Certificates	9/1/2016	116,745	(2)	3/1/2046	5.00%

- (1) Ad valorem assessments or, in lieu of assessments, in the District's discretion, charges for water or sewer service.
- (2) Available water, sewer, and recycled water revenues.
- (3) Proceeds from the sale of property.

Irvine Ranch Water District
Notes to the Basic Financial Statements
For the Fiscal Year Ended June 30, 2021
(Continued)

(9) **Long-Term Liabilities (Continued)**

General Obligation Bonds

The annual debt service requirements for the General Obligation Bonds, including principal and interest payments (based on variable interest rates at June 30, 2021 ranging from 0.01% to 0.06% and the fixed rate for the 2010B BABs issue and 2016 Consolidated issue) are as follows (in thousands):

Fiscal Year	Principal	Interest	Hedging Instruments Net	BAB Federal Subsidy	Total
2022	\$ 14,155	\$ 16,963	\$ 3,334	\$ (3,825)	\$ 30,627
2023	14,365	16,852	3,334	(3,825)	30,726
2024	14,775	16,735	3,334	(3,825)	31,019
2025	18,015	16,613	3,334	(3,825)	34,137
2026	18,710	16,279	3,334	(3,757)	34,566
2027-2031	103,075	75,843	10,001	(17,930)	170,989
2032-2036	146,165	62,538	-	(15,617)	193,086
2037-2041	161,380	30,011	-	(6,142)	185,249
2042-2046	37,060	5,222	-	-	42,282
Sub-total	527,700	257,056	26,671	(58,746)	752,681
Plus: Unamortized premium	22,721	-	-	-	22,721
Total	<u>\$ 550,421</u>	<u>\$ 257,056</u>	<u>\$ 26,671</u>	<u>\$ (58,746)</u>	<u>\$ 775,402</u>

The above table incorporates the net receipts/payments of the hedging instruments that are associated with the variable rate debt issue(s). The amounts assume that current interest rates on variable rate bonds and the current reference rates of the hedging instruments will remain the same for their term. As these rates vary, interest payments on variable rate bonds and net receipts/payments on the hedging instruments will vary. Additionally, the above table includes the most recent BABs subsidy reduction of 5.7% under the Congressionally-mandated sequestration which began in FY 2012-13. Refer to Note 3 for additional information regarding the hedging instruments associated with the debt of the District.

Irvine Ranch Water District
Notes to the Basic Financial Statements
For the Fiscal Year Ended June 30, 2021
(Continued)

(9) **Long-Term Liabilities (Continued)**

Certificates of Participation

In September 2016, the Irvine Ranch Water District Service Corporation issued \$116.7 million of Certificates of Participation Series 2016 (the Series 2016 Certificates) to finance the cost of certain capital improvements and to refund a portion of the outstanding Certificates of Participation Refunding Series 2010 (the Series 2010 Certificates).

The annual debt service requirements for the Certificates of Participation, including principal and interest payments, are as follows (in thousands):

Fiscal Year	Principal	Interest	Total
2022	\$ 3,675	\$ 5,666	\$ 9,341
2023	3,940	5,483	9,423
2024	4,220	5,286	9,506
2025	4,555	5,074	9,629
2026	4,905	4,847	9,752
2027-2031	30,070	20,204	50,274
2032-2036	19,325	13,165	32,490
2037-2041	18,730	8,877	27,607
2042-2046	23,905	3,702	27,607
Sub-total	113,325	72,304	185,629
Plus: Unamortized premium	24,908	-	24,908
Total	\$ 138,233	\$ 72,304	\$ 210,537

Irvine Ranch Water District
Notes to the Basic Financial Statements
For the Fiscal Year Ended June 30, 2021
(Continued)

(9) **Long-Term Liabilities (Continued)**

Notes Payable

The District has one outstanding loan, which was assumed as a result of its consolidation with the Santiago County Water District. The original loan amount was \$1.3 million. The loan is payable semi-annually with interest at 2.32%. The loan matures in July 2025. Amounts required to amortize notes payable at June 30, 2020 are as follows (in thousands):

<u>Fiscal Year</u>	<u>Principal</u>	<u>Interest</u>	<u>Total</u>
2022	\$ 74	\$ 8	\$ 82
2023	76	6	82
2024	77	4	81
2025	79	2	81
2026	41	1	42
Total	<u>\$ 347</u>	<u>\$ 21</u>	<u>\$ 368</u>

(10) **Unearned Revenue**

Unearned revenue at June 30, 2021 consisted of the following (in thousands):

Unearned revenue, current portion	\$ 565
Unearned revenue, net of current portion	4,263
Total	<u>\$ 4,828</u>

On November 10, 2008, the Board approved the South Orange County – Irvine Ranch Water District Interconnection Projects Participation Agreement (Agreement). The Agreement was effective on November 2008 between the District, City of San Clemente (CSC), Laguna Beach County Water District (LBCWD), Moulton Niguel Water District (MNWD), Santa Margarita Water District (SMWD), South Coast Water District (SCWD), Municipal Water District of Orange County (MWDOC), and Orange County Water District (OCWD). The purpose of the Agreement is to allow the South County water agencies (CSC, LBCWD, MNWD, SMWD, and SCWD) to reserve capacity in the District system and reimburse the District for various new intertie facilities which provide that up to 25 cfs of water supply per month may be made available during a water supply disruption. The total cost of the agreement was paid in full by each party in the fiscal year ended June 30, 2009. The amount of unearned revenue related to the South County Water Agencies is amortized over 20 years, the term of the Agreement. The amount of amortization for the fiscal year ended June 30, 2021 was \$0.5 million.

Irvine Ranch Water District
Notes to the Basic Financial Statements
For the Fiscal Year Ended June 30, 2021
(Continued)

(11) Letters of Credit

The District has letters of credit securing the payment of principal and interest on certain General Obligation Bonds. The letters of credit are issued in favor of the trustees and enable the trustees to make drawings against the letters of credit for payment of principal and interest amounts.

The terms of the letters of credit, as of June 30, 2021 are summarized as follows (in thousands):

Letter of Credit	Trustee	Amount	Expiration Date
Bank of America:			
2009 Series B Consolidated	U.S. Bank	\$ 53,087	May 16, 2022
Sumitomo Mitsui:			
2008 Series A Refunding	Bank of New York Mellon	45,666	May 28, 2025
U.S. Bank:			
1993 Consolidated	Bank of New York Mellon	25,134	December 15, 2021
2009 Series A Consolidated	U.S. Bank	53,087	December 15, 2021

(12) Net Position

Net position at June 30, 2021 consisted of the following (in thousands):

Net investment in capital assets:	
Property, plant and equipment, net	\$2,023,783
Less:	
Outstanding debt issued to construct capital assets:	
General obligation bonds	(550,421)
Certificates of participation	(138,233)
Notes payable	(347)
Deferred refunding charges	1,955
Total net investment in capital assets	<u>1,336,737</u>
Restricted net position:	
Restricted for water services	384,020
Restricted for sewer services	353,495
Total restricted net position	<u>737,515</u>
Total net position	<u><u>\$2,074,252</u></u>

Irvine Ranch Water District
Notes to the Basic Financial Statements
For the Fiscal Year Ended June 30, 2021
(Continued)

(13) Defined Benefit Pension Plan

Plan Descriptions

All qualified employees are eligible to participate in the District’s agent multiple-employer public employee defined benefit pension plan which is administrated by the California Public Employees’ Retirement System (CalPERS). CalPERS acts as a common investment and administrative agent for participating public entities within the State of California. Benefit provisions and all other requirements are established by State statute and the District’s Board of Directors. CalPERS issues publicly available reports that include a full description of the pension plans regarding benefit provisions, assumptions and membership information that can be found on the CalPERS website at www.calpers.ca.gov.

Benefits Provided

CalPERS provides service retirement and disability benefits, annual cost of living adjustments and death benefits to plan members, who must be public employees and beneficiaries. Benefits are based on years of credited service, equal to one year of full time employment. The Plan’s provisions and benefits in effect at June 30, 2021, are summarized as follows:

	Hire Date		
	Prior to October 1, 2012	On or after October 1, 2012 to December 31, 2012	On or after January 1, 2013
Benefit Formula	2.5% @ 55	2.0% @ 60	2.0% @ 62
Benefit Vesting Schedule	5 Years of Service	5 Years of Service	5 Years of Service
Benefit Payments	Monthly for Life	Monthly for Life	Monthly for Life
Minimum Retirement Age	50	50	52
Monthly Benefits, as a % of Eligible Compensation	2.0% to 2.5%	1.092% to 2.418%	1.0% to 2.5%
Required Employee Contribution Rate	8.00%	7.00%	6.50%
Required Employer Normal Cost Rate	9.428%	9.428%	9.428%

In addition, the District made a \$5.9 million unfunded liability contribution during the current fiscal year.

Employees Covered

As of June 30, 2019 (valuation date), the following employees were covered by the benefit terms for the Plan:

Active Employees	402
Inactive Employees or Beneficiaries Currently Receiving Benefits	300
Inactive Employees Entitled to But not Yet Receiving Benefits	<u>219</u>
Total	<u><u>921</u></u>

Irvine Ranch Water District
Notes to the Basic Financial Statements
For the Fiscal Year Ended June 30, 2021
(Continued)

(13) Defined Benefit Pension Plan (Continued)

Contributions

Section 20814(c) of the California Public Employees’ Retirement Law (PERL) requires that the employer contribution rates for all public employers be determined on an annual basis by the actuary and shall be effective on the July 1 following notice of a change in the rate. The total plan contributions are determined through the CalPERS’ annual actuarial valuation process. The actuarially determined rate is the estimated amount necessary to finance the costs of benefits earned by employees during the year, with an additional amount to finance any unfunded accrued liability. The employer is required to contribute the difference between the actuarially determined rate and the contribution rate of employees. Employer contribution rates may change if plan contracts are amended. Payments made by the employer to satisfy contribution requirements that are identified by the pension plan terms as plan member contribution requirements are classified as plan member contributions.

Actuarial Methods and Assumptions Used to Determine Total Pension Liability

As of June 30, 2021, the total pension liability was determined using the following actuarial methods and assumptions:

Actuarial Cost Method	Entry Age Normal in accordance with the requirements of GASB 68
Actuarial Assumptions:	
Discount Rate	7.15%
Inflation	2.50%
Salary Increases	Varies by Entry Age and Service
Mortality Rate Table ⁽¹⁾	Derived using CalPERS’ Membership Data for all Funds
Post Retirement Benefit Increase	The Lesser of Contract COLA up to 2.50% until Purchasing Power Protection Allowance Floor on Purchasing Power applies, 2.50% thereafter

⁽¹⁾ The mortality table used was developed based on CalPERS’ specific data. The probabilities of mortality are based on 2017 CalPERS Experience Study for the period from 1997 to 2015. Pre-retirement and Post-retirement mortality rates include 15 years of projected mortality improvement using 90% of Scale MP-2016 published by the Society of Actuaries. For more details on this table, please refer to the CalPERS Experience Study and Review of Actuarial Assumptions report from December 2017 that can be found on the CalPERS website.

Irvine Ranch Water District
Notes to the Basic Financial Statements
For the Fiscal Year Ended June 30, 2021
(Continued)

(13) Defined Benefit Pension Plan (Continued)

Long-term Expected Rate of Return

The long-term expected rate of return on pension plan investments was determined using a building-block method in which expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class.

In determining the long-term expected rate of return, CalPERS took into account both short-term and long-term market return expectations as well as the expected pension fund cash flows.

Using historical returns of all of the funds' asset classes, expected compound (geometric) returns were calculated over the short-term (first 10 years) and the long-term (11+ years) using a building-block approach. Using the expected nominal returns for both short-term and long-term, the present value of benefits was calculated for each fund. The expected rate of return was set by calculating the rounded single equivalent expected return that arrived at the same present value of benefits for cash flows as the one calculated using both short-term and long-term returns. The expected rate of return was then set equal to the single equivalent rate calculated above and adjusted to account for assumed administrative expenses.

The expected real rates of return by asset class are as followed:

Asset Class ⁽¹⁾	Assumed Asset Allocation	Real Return Years 1 – 10 ⁽²⁾	Real Return Years 11+ ⁽³⁾
Global Equity	50.0%	4.80%	5.98%
Fixed Income	28.0%	1.00%	2.62%
Inflation Assets	0.0%	0.77%	1.81%
Private Equity	8.0%	6.30%	7.23%
Real Estates	13.0%	3.75%	4.93%
Liquidity	1.0%	0.00%	(0.92%)
Total	100%		

⁽¹⁾ In the CalPERS' CAFR, Fixed Income is included in Global Debt Securities; Liquidity is included in Short-term Investments; Inflation Assets are included in both Global Equity Securities and Global Debt Securities.

⁽²⁾ An expected inflation of 2.00% used for this period.

⁽³⁾ An expected inflation of 2.92% used for this period.

Irvine Ranch Water District
Notes to the Basic Financial Statements
For the Fiscal Year Ended June 30, 2021
(Continued)

(13) Defined Benefit Pension Plan (Continued)

Discount Rate

The discount rate used to measure the total pension liability was 7.15 percent. The projection of cash flows used to determine the discount rate assumed that contributions from plan members will be made at the current member contribution rates and that contributions from employers will be made at statutorily required rates, actuarially determined. Based on those assumptions, the Plan's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on plan investments was applied to all periods of projected benefit payments to determine the total pension liability.

Pension Plan Fiduciary Net Position

The plan fiduciary net position disclosed in the GASB 68 accounting valuation report may differ from the plan assets reported in the funding actuarial valuation report due to several reasons. For example, for the accounting reports, CalPERS must keep items such as deficiency reserves and fiduciary self-insurance included as assets. These amounts are excluded for rate setting purposes in the funding actuarial valuation.

Changes in the Net Pension Liability

The changes in the net pension liability for the Plan were as follows (in thousands):

	Increase (Decrease)		
	Total Pension Liability	Plan Fiduciary Net Position	Net Pension Liability/(Asset)
	(a)	(b)	(c) = (a) - (b)
Balance at June 30, 2020	\$ 291,334	\$ 222,867	\$ 68,467
Changes Recognized for the Period:			
Service Cost	6,001	-	6,001
Interest	20,700	-	20,700
Difference between Expected and Actual Experience	1,509	-	1,509
Contributions – Employer	-	8,430	(8,430)
Contributions – Employees	-	2,741	(2,741)
Net Investment Income	-	11,115	(11,115)
Benefit Payments, Including Refunds of Employee Contributions	(12,655)	(12,655)	-
Administrative Expense	-	(314)	314
Net Change	15,555	9,317	6,238
Balance at June 30, 2021	\$ 306,889	\$ 232,184	\$ 74,705

Irvine Ranch Water District
Notes to the Basic Financial Statements
For the Fiscal Year Ended June 30, 2021
(Continued)

(13) Defined Benefit Pension Plan (Continued)

Sensitivity of the Net Pension Liability to Changes in the Discount Rate

The following presents the net pension liability of the Plan, calculated using the discount rate of 7.15 percent, as well as what the net pension liability would be if it were calculated using a discount rate that is 1 percentage-point lower (6.15 percent) or 1 percentage-point higher (8.15 percent) than the current rate (in thousands):

	Discount Rate -1% (6.15%)	Current Discount Rate (7.15%)	Discount Rate +1% (8.15%)
Plan's Net Pension Liability	\$ 115,971	\$ 74,705	\$ 40,549

Funding of CalPERS Plan and Pension Benefits Trust

The District recognizes that defined benefit plans and the related future pension obligations pose significant issues for many government agencies. The District has taken a proactive approach to address the issue and in 2013, established a Pension Benefits Trust to substantially fund its PERS unfunded liability. The Pension Benefits Trust provides the District with an alternative to PERS that allows for investment by a professional fund management team selected and monitored by the District. The Pension Benefits Trust holds the funding contributions for the District pending future remittance to the CalPERS pension trust fund which will pay all retiree benefit payments to employees associated with the plan. Future contributions will be transferred from the Pension Benefits Trust to CalPERS at the District's discretion.

As of June 30, 2021, the total value of the assets in the Pension Benefits Trust was approximately \$107.9 million.

The following schedule shows the District's total pension liability, CalPERS assets, Pension Benefits Trust assets, and the relationship of the total pension liability (in thousands):

Fiscal Year ⁽¹⁾	Total Pension Liability	CalPERS Assets	Net Pension Liability/ (Asset)	Pension Benefits Trust Assets	CalPERS Assets as a Percentage of the Total Pension Liability	Pension Benefits Trust Assets as of Percentage of the Total Pension Liability	Total Pension Assets as a Percentage of the Total Pension Liability
06/30/19	\$ 275,457	\$ 211,320	\$ 64,137	\$ 73,106	76.7%	26.5%	103.2%
06/30/20	291,334	222,867	68,467	78,389	76.5%	26.9%	103.4%
06/30/21	306,889	232,184	74,705	83,103	75.7%	27.0%	102.7%

⁽¹⁾ As of the measurement date June 30, 2018, 2019, and 2020 respectively.

Irvine Ranch Water District
Notes to the Basic Financial Statements
For the Fiscal Year Ended June 30, 2021
(Continued)

(13) Defined Benefit Pension Plan (Continued)

Subsequent Events

There were no subsequent events that would materially affect the results presented in this disclosure.

Recognition of Gains and Losses

Under GASB 68, gains and losses related to changes in total pension liability and fiduciary net position are recognized in pension expense systematically over time.

The first amortized amounts are recognized in pension expense for the year the gain or loss occurs. The remaining amounts are categorized as deferred outflows and deferred inflows of resources related to pensions and are to be recognized in future pension expense.

The amortization period differs depending on the source of the gain or loss:

Net Difference between Projected and Actual Earnings on Pension Plan Investments	5 year straight-line amortization
All Other Amounts	Straight-line amortization over the expected average remaining service lifetime (EARSL) of all members that are provided with benefits (active, inactive, and retired) as of the beginning of the measurement period

The EARSL for the Plan for the fiscal year ended June 30, 2021 was 4.9 years, which was obtained by dividing the total service years of 4,413 (the sum of remaining service lifetimes of the active employees) by 907 (the total number of participants: active, inactive, and retired). Inactive employees and retirees have remaining service lifetimes equal to 0. Total future service is based on the members' probability of decrementing (leaving employment) due to an event other than receiving a cash refund.

Irvine Ranch Water District
Notes to the Basic Financial Statements
For the Fiscal Year Ended June 30, 2021
(Continued)

(13) **Defined Benefit Pension Plan (Continued)**

Pension Expense and Deferred Outflows and Deferred Inflows of Resources Related to Pensions

For the fiscal year ended June 30, 2021, the District recognized pension expense of \$13.4 million. At June 30, 2021, the District reported deferred outflows and deferred inflows of resources related to pensions from the following sources (in thousands):

	Deferred Outflows of Resources	Deferred Inflows of Resources
Pension Contributions made Subsequent to the Measurement Date	\$ 9,569	\$ -
Differences between Expected and Actual Experiences	2,680	274
Changes in Assumptions	1,686	581
Net Difference between Projected and Actual Earnings on Pension Plan Investments	1,900	-
Total	\$ 15,835	\$ 855

\$9.6 million reported as deferred outflows of resources related to employer contributions subsequent to the measurement date will be recognized as a reduction of the net pension liability in the fiscal year ending June 30, 2022. \$5.4 million net of deferred outflows of resources and deferred inflows of resources related to pensions will be recognized as pension expense as follows (in thousands):

Fiscal Year	Deferred Outflows/ (Inflows) of Resources
2021	\$ 1,080
2022	1,198
2023	1,912
2024	1,221
Total	\$ 5,411

Irvine Ranch Water District
Notes to the Basic Financial Statements
For the Fiscal Year Ended June 30, 2021
(Continued)

(14) Other Post-Employment Benefits

Plan Descriptions

The District administers three other post-employment benefits (OPEB) plans which are subject to changes based on the discretion of the Board:

- **PEMHCA:** The District provides an agent multiple-employer defined benefit healthcare plan to retirees through the California Public Employee Retirement System (CalPERS) under the California Public Employees Medical and Hospital Care Act (PEMHCA), commonly referred to as PERS Health. Employees are eligible for this lifetime benefit if they retire from the District and are eligible to begin drawing a PERS pension. Participation in PEMHCA is financed in part by the District through a contribution of \$143 per month per participating retiree.
- **RHCAP:** The District also administers a single-employer defined benefit Retiree Health Costs Assistance Program (RHCAP), which provides medical benefits to covered employees and their eligible dependents. The duration of the benefit is based on employees' years of service as follows: 12 months of benefits for employees with 3-7 years of service; 24 months of benefits for employees with 8-9 years of services; 36 months of benefits for employees with 10-14 years of service; 48 months of benefits for employees with 15-19 years of service; and 60 months of benefits for employees with at least 20 years of service. Employees are eligible for this benefit if they retire from the District on or after age 55 with at least three years of service. The District reimburses retirees for eligible healthcare costs of up to \$160 per month (for retirees with at least three years of service at the District), to a maximum of \$600 per month after 25 years of service.
- **Death Benefit:** The District administers a single-employer defined benefit Retiree Death Only plan (Death Benefit). Employees hired on or before December 31, 2008 and who retire from the District on or after age 55 with at least 10 years of service at the District are eligible for term life insurance with a face amount equal to 100% of their final annual salary at the time of retirement. Employees hired after December 31, 2008 are not currently eligible for this plan.

Irvine Ranch Water District
Notes to the Basic Financial Statements
For the Fiscal Year Ended June 30, 2021
(Continued)

(14) Other Post-Employment Benefits (Continued)

Employees Covered

As of the June 30, 2020 measurement date, the following employees were covered by the benefit terms under each Plan:

	PEMHCA	RHCAP	Death Benefit	Total
Inactive Employees or Beneficiaries Currently Receiving Benefits	107	47	-	154
Inactive Employees Entitled to But not Yet Receiving Benefits	93	-	148	241
Active Employees	393	393	136	922
Total	593	440	284	1,317

Contributions

The contributions for the District's various other post-employment benefits are based on pay-as-you-go financing requirements.

For the fiscal year ended June 30, 2021, the District's cash contributions were \$0.5 million and estimated implied subsidy was \$0.3 million resulting in total payments of \$0.8 million. The following shows contributions by each OPEB plan (in thousands):

	PEMHCA	RHCAP	Death Benefit	Total
Cash Contributions	\$ 188	\$ 288	\$ 20	\$ 496
Estimated Implied Subsidy	308	-	-	308
Total	\$ 496	\$ 288	\$ 20	\$ 804

Irvine Ranch Water District
Notes to the Basic Financial Statements
For the Fiscal Year Ended June 30, 2021
(Continued)

(14) Other Post-Employment Benefits (Continued)

Actuarial Methods and Assumptions Used to Determine Total OPEB Liability

The June 30, 2020 measurement date was used to determine the June 30, 2021 total OPEB liability, based on the following actuarial methods and assumptions:

	PEMHCA	RHCAP	Death Benefit
Actuarial Method	Entry Age Normal		
Actuarial Assumptions:			
Contribution Policy	Pay-as-you-go		
Discount Rate	2.21% at June 30, 2020 and 3.50% at June 30, 2019 (Bond Buyer 20-Bond Index)		
Inflation	2.75% Annually		
Mortality, Disability, Termination, Retirement	CalPERS 1997-2015 Experience Study		
Mortality Improvement	Mortality Projected Fully Generational with Scale MP-2020		
Salary Increases	3% Annually and CalPERS 1997-2015 Experience Study		
Medical Trend	Non-Medicare – 7.0% for 2022, decreasing to 4.0% in 2076 Medicare (Non-Kaiser) – 6.1% for 2022, decreasing to 4.0% in 2076 Medicare (Kaiser) – 5.0% for 2022, decreasing to 4.0% in 2076	Not Applicable	
Minimum Increase	4.25% Annually	Not Applicable	
Participation at Retirement	Medical Coverage: 70% if eligible for RHCAP. Otherwise, 50% if currently in District's medical plan, 0% if not.	3 years of District Service: 100% Participate	100% Participate

Change in Assumptions

For the fiscal year ended June 30, 2020 measurement period, the discount rate was decreased from 3.50 percent to 2.21 percent based on the municipal bond rate.

Irvine Ranch Water District
Notes to the Basic Financial Statements
For the Fiscal Year Ended June 30, 2021
(Continued)

(14) Other Post-Employment Benefits (Continued)

Discount Rate

The discount rate used to measure the total OPEB liability was 2.21 percent which was based on the Bond Buyer 20-Bond G.O. Index.

Changes in the OPEB Liability

The changes in the OPEB liability were as follows (in thousands):

	PEMHCA	RHCAP	Death Benefit	Total
Balance at June 30, 2020	\$ 13,404	\$ 3,229	\$ 1,601	\$ 18,234
Changes Recognized for the Period:				
Service Cost	671	176	29	876
Interest	484	113	57	654
Actual vs. Expected Experience	1,005	164	(116)	1,053
Changes in Assumptions	2,957	263	160	3,380
Benefit Payments	(467)	(361)	-	(828)
Net Change	4,650	355	130	5,135
Balance at June 30, 2021	\$ 18,054	\$ 3,584	\$ 1,731	\$ 23,369

Sensitivity of the OPEB Liability to Changes in the Discount Rate

The following presents the OPEB liability, calculated using a discount rate that is one percentage point lower or one percentage higher than the current rate for the measurement period ended June 30, 2020 (in thousands).

OPEB Liability	Discount Rate - 1% (1.21%)	Current Discount Rate (2.21%)	Discount Rate + 1% (3.21%)
PEMHCA	\$ 21,402	\$ 18,054	\$ 15,419
RHCAP	3,804	3,584	3,377
Death Benefit	1,871	1,731	1,606
Total	\$ 27,077	\$ 23,369	\$ 20,402

Irvine Ranch Water District
Notes to the Basic Financial Statements
For the Fiscal Year Ended June 30, 2021
(Continued)

(14) Other Post-Employment Benefits (Continued)

Sensitivity of OPEB Liability to Changes in the Healthcare Trend Rates (Continued)

The following presents the OPEB liability, calculated using health care cost trend rates that are one percentage point lower or one percentage higher than the current rate for the measurement period ended June 30, 2020 (in thousands).

OPEB Liability	Healthcare Trend Rates -1%	Curent Healthcare Trend Rates	Healthcare Trend Rates +1%
PEMHCA	\$ 14,970	\$ 18,054	\$ 22,128
RHCAP	3,584	3,584	3,584
Death Benefit	1,731	1,731	1,731
Total	<u>\$ 20,285</u>	<u>\$ 23,369</u>	<u>\$ 27,443</u>

Subsequent Events

There were no subsequent events that would materially affect the results presented in this disclosure.

Amortization of Deferred Outflows and Deferred Inflows of Resources

Gains and losses related to changes in total OPEB liability is recognized in OPEB expense systematically over time.

The first amortized amounts are recognized in OPEB expense for the fiscal year the gain or loss occurs. The remaining amounts are categorized as deferred outflows and deferred inflows of resources related to OPEB and are to be recognized in future OPEB expense.

The amortization period differs depending on the source of the gain or loss. Straight line amortization over the expected average remaining service lifetime (EARSL) of all members that are provided with benefits (active and retired) as of the beginning of the measurement period is used for each Plan.

OPEB Expense and Deferred Outflows and Deferred Inflows of Resources Related to OPEB

For the fiscal year ended June 30, 2021, the District recognized OPEB expense of \$2.1 million which consisted of \$1.7 million for PEMHCA, \$0.3 million for RHCAP and \$0.05 million for Death Benefit.

Irvine Ranch Water District
Notes to the Basic Financial Statements
For the Fiscal Year Ended June 30, 2021
(Continued)

(14) Other Post-Employment Benefits (Continued)

OPEB Expense and Deferred Outflows and Deferred Inflows of Resources Related to OPEB (Continued)

At June 30, 2021, the District reported deferred outflows and deferred inflows of resources related to OPEB from the following sources (in thousands):

	<u>PEMHCA</u>	<u>RHCAP</u>	<u>Death Benefit</u>	<u>Total</u>
Deferred Outflows of Resources:				
OPEB Contributions made Subsequent to the Measurement Date	\$ 496	\$ 288	\$ 20	\$ 804
Changes in Assumptions	3,682	296	155	4,133
Difference between Expected and Actual Experience	1,548	237	-	1,785
Deferred Inflows of Resources:				
Changes in Assumptions	614	76	22	712
Difference between Expected and Actual Experience	-	-	156	156

The District has \$0.8 million reported as deferred outflows of resources related to employer contributions subsequent to the measurement date which will be recognized as a reduction of the OPEB liability in the fiscal year ending June 30, 2022. The District has \$5.1 million deferred outflows and deferred inflows of resources related to OPEB which will be recognized as OPEB expense as follows (in thousands):

<u>Fiscal Year</u>	<u>PEMHCA</u>	<u>RHCAP</u>	<u>Death Benefit</u>	<u>Total</u>
2022	\$ 531	\$ 44	\$ (40)	\$ 535
2023	531	44	(10)	565
2024	531	44	16	591
2025	531	44	8	583
2026	615	44	3	662
Thereafter	1,877	237	-	2,114
Total	\$ 4,616	\$ 457	\$ (23)	\$ 5,050

Irvine Ranch Water District
Notes to the Basic Financial Statements
For the Fiscal Year Ended June 30, 2021
(Continued)

(15) Deferred Compensation Plans

Retirement for Part Time Employees

The District provides pension benefits for all of its part-time employees through a defined contribution plan, in lieu of providing social security benefits. In a defined contribution plan, benefits depend solely on amounts contributed to the plan plus investment earnings. The plan is administered as part of the District's Section 457 plan. All part-time and seasonal employees are eligible to participate from the date of employment. For the year ended June 30, 2021, the District's payroll covered by the plan was \$69,144. The District made no employer contributions. Employees contributed \$6,026 for the fiscal year ended June 30, 2021.

Deferred Compensation

All regular, full-time District employees are eligible to participate in the District's deferred compensation program pursuant to Section 457 of the Internal Revenue Code (Plan) whereby they can voluntarily contribute a portion of their earnings into a tax-deferred fund administered by the District and invested through a third party provider. Pursuant to the Economic Growth and Tax Relief Reconciliation Act of 2001 (EGTRRA), effective January 1, 2002, employees may contribute the lesser of 100% of includible compensation or the maximum dollar amount allowable under Internal Revenue Code Section 457 in effect for the year. The dollar amount currently in effect for calendar year 2021 is \$19,500.

Effective January 1, 2008, for employees with one year or more of services, the District provides 100% matching up to an annual maximum of 3% of the employee's base salary after one year of service. Such employer contribution amounts are deposited into a money purchase plan pursuant to Section 401(a) of the Internal Revenue Code. All full-time employees who have completed two years of regular, full-time service with the District, are eligible for an additional District contribution. Beginning with the first month following an employee's second anniversary date, the District will deposit to the employee's 401 (a) Plan account on a per-pay period basis an amount equal to 1% of the employee's base salary. During the fiscal year ended June 30, 2021, the District contributed \$1.3 million to employee accounts under the 401(a) plan.

The assets in both plans are held in trust for the exclusive benefit of the participants and their beneficiaries, and are therefore not reported in the basic financial statements of the District.

(16) Commitments and Contingencies

Legal Actions

The District is a defendant in various legal actions arising out of the conduct of the District's operations. Management believes that, based on current knowledge, the outcome of these matters will not have a material adverse effect on the District's financial position.

Irvine Ranch Water District
Notes to the Basic Financial Statements
For the Fiscal Year Ended June 30, 2021
(Continued)

(17) Risk Management

The District is exposed to various risks of loss related to torts; theft of, damage to, and destruction of assets; errors and omissions, and natural disasters for which the District carries commercial insurance.

Property, Boiler and Machinery insurance is provided by the Public Risk Innovation, Solutions, and Management (PRISM) formerly the California State Association of Counties Excess Insurance Authority (CSAC-EIA). Property insurance includes flood insurance for all properties, and earthquake insurance for the District’s real estate investment properties. General and excess liability coverage and workers compensation insurance are provided through participation in the PRISM program. Pollution and legal liability coverage for the Irvine Desalter Project is provided by a policy with Ironshore Holdings, a Liberty Mutual Company.

Liabilities are reported when it is probable that a loss has occurred and the amount of the loss can be reasonably estimated. Liabilities include an amount for claims that have been incurred but not reported (IBNRs). The result of the process to estimate the claims liability is not an exact amount as it depends on many complex factors, such as inflation, changes in legal doctrines, and damage awards. Accordingly, claims are reevaluated periodically to consider the effects of inflation, recent claim settlement trends (including frequency and amount of payouts), and other economic and social factors. The estimate of the claims liability also includes amounts for incremental claim adjustment expenses related to specific claims and other claim adjustment expenses regardless of whether allocated to specific claims. Estimated recoveries, for example from salvage or subrogation, are another component of the claims liability estimate. Excess coverage insurance policies cover individual general liability claims in excess of \$100,000, property claims in excess of \$25,000 and workers compensation claims in excess of \$125,000.

Changes in the reported liability resulted from the following (in thousands):

Fiscal Year	Liability Beginning of Year	Claims and Changes in Estimates	Claim Payments	Liability End of Year	Due within One Year	Due in more than One Year
2020	\$ 1,517	\$ 255	\$ (34)	\$ 1,738	\$ 791	\$ 947
2021	1,738	184	(173)	1,749	572	1,177

Irvine Ranch Water District
Required Supplementary Information
For the Fiscal Year Ended June 30, 2021

(1) **Defined Benefit Pension Plan – California Public Employees’ Retirement System**

(a) Schedule of Changes in the Net Pension Liability and Related Ratio (in thousands)

	Measurement Date: June 30		
	2020	2019	2018
Total Pension Liability			
Service Cost	\$ 6,001	\$ 5,498	\$ 5,098
Interest	20,700	19,651	18,570
Changes of Assumptions	-	-	(1,605)
Difference between Expected and Actual Experience	1,509	2,535	(235)
Benefit Payments, Including Refunds of Employee Contributions	(12,655)	(11,807)	(10,770)
Net Change in Total Pension Liability	15,555	15,877	11,058
Total Pension Liability – Beginning	291,334	275,457	264,399
Total Pension Liability – Ending (a)	\$ 306,889	\$ 291,334	\$ 275,457
Plan Fiduciary Net Position			
Contributions – Employer	\$ 8,430	\$ 7,185	\$ 6,157
Contributions – Employees	2,741	2,511	2,401
Net Investment Income	11,115	13,809	16,707
Benefit Payments, Including Refunds of Employee Contributions	(12,655)	(11,807)	(10,770)
Administrative Expense	(314)	(151)	(308)
Other Miscellaneous Income / (Expense) ⁽¹⁾	-	-	(585)
Net Change in Fiduciary Net Position	9,317	11,547	13,602
Plan Fiduciary Net Position – Beginning ⁽²⁾	222,867	211,320	197,718
Plan Fiduciary Net Position – Ending (b)	\$ 232,184	\$ 222,867	\$ 211,320
Plan Net Pension Liability – Ending (a) - (b)	\$ 74,705	\$ 68,467	\$ 64,137
Plan Fiduciary Net Position as a Percentage of the Total Pension Liability	75.66%	76.50%	76.72%
Covered Payroll	\$ 37,389	\$ 33,758	\$ 32,213
Plan Net Pension Liability as a Percentage of Covered Payroll	199.80%	202.82%	199.10%

Irvine Ranch Water District
Required Supplementary Information
For the Fiscal Year Ended June 30, 2021
(Continued)

(1) **Defined Benefit Pension Plan – California Public Employees’ Retirement System
(Continued)**

**(a) Schedule of Changes in the Net Pension Liability and Related Ratio (in thousands)
(Continued)**

	Measurement Date: June 30			
	2017	2016	2015	2014
Total Pension Liability				
Service Cost	\$ 4,825	\$ 4,066	\$ 4,005	\$ 3,942
Interest	17,806	17,092	16,343	15,436
Changes of Assumptions	15,182	-	(4,127)	-
Difference between Expected and Actual Experience	(1,702)	(1,856)	530	-
Benefit Payments, Including Refunds of Employee Contributions	(9,721)	(9,089)	(8,365)	(7,631)
Net Change in Total Pension Liability	26,390	10,213	8,386	11,747
Total Pension Liability – Beginning	238,009	227,796	219,410	207,663
Total Pension Liability – Ending (a)	\$ 264,399	\$ 238,009	\$ 227,796	\$ 219,410
Plan Fiduciary Net Position				
Contributions – Employer	\$ 5,450	\$ 4,926	\$ 4,524	\$ 4,330
Contributions – Employees	2,280	2,519	2,170	2,712
Net Investment Income	20,205	946	4,049	26,787
Benefit Payments, Including Refunds of Employee Contributions	(9,721)	(9,089)	(8,365)	(7,632)
Administrative Expense	(265)	(110)	(208)	-
Other Miscellaneous Income / (Expense) ⁽¹⁾	-	-	-	-
Net Change in Fiduciary Net Position	17,949	(808)	2,170	26,197
Plan Fiduciary Net Position – Beginning ⁽²⁾	179,769	180,577	178,407	152,210
Plan Fiduciary Net Position – Ending (b)	\$ 197,718	\$ 179,769	\$ 180,577	\$ 178,407
Plan Net Pension Liability – Ending (a) - (b)	\$ 66,681	\$ 58,240	\$ 47,219	\$ 41,003
Plan Fiduciary Net Position as a Percentage of the Total Pension Liability	74.78%	75.53%	79.27%	81.31%
Covered Payroll	\$ 30,823	\$ 28,802	\$ 27,596	\$ 26,264
Plan Net Pension Liability as a Percentage of Covered Payroll	216.33%	202.21%	171.11%	156.12%

⁽¹⁾ During Fiscal Year 2017-18, as a result of Governmental Accounting Standards Board Statement (GASB) No. 75, Accounting and Financial Reporting for Postemployment Benefit Plans Other than Pensions (GASB 75), CalPERS reported its proportionate share of activity related to postemployment benefits for participation in the State of California’s agent OPEB plan. Accordingly, CalPERS recorded a one-time expense as a result of the adoption of GASB 75.

⁽²⁾ Includes any beginning of year adjustment.

Irvine Ranch Water District
 Required Supplementary Information
 For the Fiscal Year Ended June 30, 2021
 (Continued)

(1) **Defined Benefit Pension Plan – California Public Employees’ Retirement System (Continued)**

(a) Schedule of Changes in the Net Pension Liability and Related Ratio (in thousands) (Continued)

Notes to Schedule of Changes in the Net Pension Liability and Related Ratio

Benefit Changes: The figures above include any liability impact that may have resulted from voluntary benefit changes which occurred after June 30, 2019 valuation. However, offers of Two Years Additional Service Credit (a.k.a. Golden Handshakes) that occurred after the June 30, 2019 valuation date are not included in the figures above, unless the liability impact is deemed to be material by the plan actuary.

Changes of Assumptions: None in 2019 or 2020. In 2018, demographic assumptions and inflation rate were changed in accordance to the CalPERS Experience Study and Review of Actuarial Assumptions December 2017. There were no changes in the discount rate. In 2017, the discount rate reduced from 7.65 percent to 7.15 percent. In 2016, there were no changes. In 2015, amounts reported reflect an adjustment of the discount rate from 7.5 percent (net of administrative expense) to 7.65 percent (without a reduction for pension plan administration expense.) In 2014, amounts reported were based on the 7.5 percent discount rate.

(b) Schedule of Contributions (in thousands)

	Fiscal Year Ended June 30 ⁽¹⁾						
	2021	2020	2019	2018	2017	2016	2015
Actuarially Determined Contribution ⁽²⁾	\$ 9,569	\$ 8,430	\$ 7,185	\$ 6,157	\$ 5,450	\$ 4,926	\$ 4,524
Contributions in Relation to the Actuarially Determined Contribution ⁽²⁾	(9,569)	(8,430)	(7,185)	(6,157)	(5,450)	(4,926)	(4,524)
Contribution Deficiency (Excess)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Covered Payroll	\$ 39,189	\$ 37,389	\$ 33,758	\$ 32,213	\$ 30,823	\$ 28,802	\$ 27,596
Contributions as a Percentage of Covered Payroll	24.42%	22.55%	21.28%	19.11%	17.68%	17.10%	16.39%

⁽¹⁾ Historical information is required only for measurement periods from which GASB 68 is applicable. Fiscal Year 2015 was the first year of GASB 68 implementation.

⁽²⁾ Employers are assumed to make contributions equal to the actuarially determined contributions. However, some employers may choose to make additional contributions towards their unfunded liability. Employer contributions for such plans exceed the actuarially determined contributions.

Irvine Ranch Water District
 Required Supplementary Information
 For the Fiscal Year Ended June 30, 2021
 (Continued)

(1) **Defined Benefit Pension Plan – California Public Employees’ Retirement System (Continued)**

(b) Schedule of Contributions (in thousands) (Continued)

Notes to Schedule of Contributions

The actuarial methods and assumptions used to set the actuarially determined contributions for the fiscal year ended June 30, 2021 were from the June 30, 2018 public agency valuations.

Actuarial Cost Method	Entry Age Normal
Amortization Method/Period	Level Percent of Payroll
Asset Valuation Method	Fair Value of Assets
Inflation	2.50%
Salary Increases	Varies by Entry Age and Service
Payroll Growth	2.75%
Investment Rate of Return	7.00% Net of Pension Plan Investment and Administrative Expenses; includes Inflation
Retirement Age	The probabilities of Retirement are based on the December 2017 CalPERS Experience Study for the period from 1997 to 2015.
Mortality	The probabilities of mortality are based on the December 2017 CalPERS Experience Study for the period from 1997 to 2015. Pre-retirement and Post-retirement mortality rates include 15 years of projected on-going mortality improvement using 90% of Scale MP 2016 published by the Society of Actuaries.

Changes in Assumptions: On December 21, 2016, the CalPERS Board of Administration lowered the discount rate from 7.50 percent to 7.00 percent using a three-year phase-in beginning with the June 30, 2016 actuarial valuations. The minimum employer contributions for Fiscal Year 2020-21 were calculated using a discount rate of 7.00 percent.

Subsequent Event: The CalPERS Board of Administration has adopted a new amortization policy effective with the June 30, 2019 actuarial valuation. The new policy shortens the period over which actuarial gains and losses are amortized from 30 years to 20 years with the payments computed using a level dollar amount. In addition, the new policy removes the 5-year ramp-up and ramp-down on UAL bases attributable to assumption changes and non-investment gains/losses. The new policy removes the 5-year ramp-down on investment gains/losses. These changes will apply only to new UAL bases established on or after June 30, 2019.

Irvine Ranch Water District
Required Supplementary Information
For the Fiscal Year Ended June 30, 2021
(Continued)

(2) **Other Post-Employment Benefits**

Schedule of Changes in the OPEB Liability and Related Ratio (in thousands)⁽¹⁾

PEMHCA				
Measurement Date: June 30	2020	2019	2018	2017
Service Cost	\$ 671	\$ 594	\$ 472	\$ 549
Interest	484	479	364	310
Changes of Assumptions	2,957	727	682	(1,173)
Difference between Expected and Actual Experience	1,005	-	951	-
Benefit Payments	(467)	(377)	(343)	(304)
Net Change in Total OPEB Liability	4,650	1,423	2,126	(618)
Total OPEB Liability – Beginning	13,404	11,981	9,855	10,473
Total OPEB Liability – Ending	\$ 18,054	\$ 13,404	\$ 11,981	\$ 9,855
Covered Employee Payroll	\$ 42,190	\$ 37,226	\$ 35,629	\$ 30,823
OPEB Liability as a Percentage of Covered Employee Payroll	42.79%	36.01%	33.63%	31.97%
RHCAP				
Measurement Date: June 30	2020	2019	2018	2017
Service Cost	\$ 176	\$ 161	\$ 148	\$ 161
Interest	113	125	112	94
Changes of Assumptions	263	69	1	(136)
Difference between Expected and Actual Experience	164	-	125	-
Benefit Payments	(361)	(332)	(306)	(286)
Net Change in Total OPEB Liability	355	23	80	(167)
Total OPEB Liability – Beginning	3,229	3,206	3,126	3,293
Total OPEB Liability – Ending	\$ 3,584	\$ 3,229	\$ 3,206	\$ 3,126
Covered Employee Payroll	\$ 41,634	\$ 36,529	\$ 35,629	\$ 30,823
OPEB Liability as a Percentage of Covered Employee Payroll	8.61%	8.84%	9.00%	10.14%

Irvine Ranch Water District
 Required Supplementary Information
 For the Fiscal Year Ended June 30, 2021
 (Continued)

(2) **Other Post-Employment Benefits (Continued)**

Schedule of Changes in the OPEB Liability and Related Ratio (in thousands)⁽¹⁾ (Continued)

Measurement Date: June 30	Death Benefit			
	2020	2019	2018	2017
Service Cost	\$ 29	\$ 27	\$ 28	\$ 32
Interest	57	58	58	47
Changes of Assumptions	160	41	(10)	(92)
Difference between Expected and Actual Experience	(116)		(168)	
Benefit Payments	-	(10)	(20)	(10)
Net Change in Total OPEB Liability	130	116	(112)	(23)
Total OPEB Liability – Beginning	1,601	1,485	1,597	1,620
Total OPEB Liability – Ending	\$ 1,731	\$ 1,601	\$ 1,485	\$ 1,597
Covered Employee Payroll	\$ 18,712	\$ 18,455	\$ 19,775	\$ 16,028
OPEB Liability as a Percentage of Covered Employee Payroll	9.25%	8.68%	7.51%	9.96%

⁽¹⁾ Historical information is required only for measurement periods from which GASB 75 is applicable. Fiscal Year 2018 was the first year of GASB 75 implementation.

Notes to Schedule of Changes in the OPEB Liability and Related Ratio

Changes of Assumptions: For the fiscal year ended June 30, 2020 measurement period, the discount rate was decreased from 3.50 percent to 2.21 percent based on municipal bond rate. Mortality improvement scale was updated to Scale MP-2020. ACA Excise Tax removed due to repeal of the law in December 2019.

For the fiscal year ended June 30, 2019 measurement period, the discount rate was decreased from 3.87 percent to 3.50 percent based on municipal bond rate.

Irvine Ranch Water District
 Required Supplementary Information
 For the Fiscal Year Ended June 30, 2021
 (Continued)

(2) **Other Post-Employment Benefits (Continued)**

Schedule of Changes in the OPEB Liability and Related Ratio (in thousands)⁽¹⁾ (Continued)

Notes to Schedule of Changes in the OPEB Liability and Related Ratio (Continued)

For the fiscal year ended June 30, 2018 measurement period, the changes of assumptions were as follows:

PEMHCA	RHCAP	Death Benefit
Discount rate was increased from 3.581% to 3.87% based on municipal bond rate as of the measurement date.		
Demographic assumptions were updated to CalPERS 1997-2015 Experience Study.		
Mortality improvement scale was updated to Scale MP-2018.		
Medical claims costs were developed by Axene Health Partners based on demographic data for the CalPERS health plans provided by CalPERS and Axene's proprietary AHP Cost Model.	Not Applicable	
Short term medical trend was developed in consultation with Axene Health Partners' healthcare actuaries. Long-term medical trend developed using the Society of Actuaries Getzen Model of Long-Run Medical Cost Trends.	Not Applicable	
Participation at retirement for medical coverage was updated to 70% if eligible for RHCAP.	Not Applicable	
A 2% load on the cash liability was added to estimate the ACA Excise Tax.	Not Applicable	

For the fiscal year ended June 30, 2017 measurement period, the discount rate increased from 2.85 percent to 3.581 percent.

Statistical Section

Irvine Ranch Water District
Fiscal Year Ended June 30, 2021

This section of the Irvine Ranch Water District's Comprehensive Annual Financial Report presents detailed information as a context for understanding what the information in the financial statements, note disclosures, and required supplementary information says about the District's overall financial health.

Financial Trends Schedules – These schedules contain trend information to help the reader understand how the District's financial performance and well-being have changed over time.

- Net Position
- Changes in Net Position

Revenue Capacity Schedules – These schedules contain information to help the reader assess the factors affecting the District's ability to generate its property and sales taxes.

- Water Sold by Type of Customer
- Water Rates
- Largest Water Customers
- Sewer Rates
- Largest Sewer Customers
- Ad Valorem Property Tax Rates

Debt Capacity Schedules – These schedules present information to help the reader assess the affordability of the District's current levels of outstanding debt and the District's ability to issue additional debt in the future.

- Assessed Valuation and Estimated Actual Value of Taxable Property and 1% Property Tax Revenue
- Direct and Overlapping Property Tax Rates
- Principal Property Taxpayers
- Property Tax Collections/Delinquency
- Outstanding Debt by Type
- Outstanding General Obligation Bonds by Improvement District
- Ratio of General Obligation Debt to Assessed Values
- Ratio of Annual Debt Service Expenditures to Total General Expenditures
- Debt Service Coverage

Demographic and Economic Information – These schedules offer demographic and economic indicators to help the reader understand the environment within which the District’s financial activities take place and to help make comparisons over time and with other governments.

Principal Employers
Demographic and Economic Statistics

Operating Information – These schedules contain information about the District’s operations and resources to help the reader understand how the District’s financial information relates to the services the District provides and the activities it performs.

Operating Indicators by Function – Water and Sewer Service Connections
Operating Indicators by Function – New Service Connections
Operating Indicators by Function – Average Monthly Usage
Source of Supply and Demand in Acre Feet
Capital Asset Statistics
Full-Time Employees

Irvine Ranch Water District

Net Position

For the Past Ten Fiscal Years

(in millions)

	Fiscal Year				
	2012	2013 ⁽¹⁾	2014 ⁽¹⁾	2015 ⁽²⁾	2016 ⁽³⁾
Assets					
Current and other assets	\$ 1,167.0	\$ 1,128.2	\$ 462.7	\$ 332.9	\$ 456.6
Capital assets	1,508.8	1,506.1	1,567.5	1,647.4	1,731.6
Total assets	2,675.8	2,634.3	2,030.2	1,980.3	2,188.2
Deferred Outflows of Resources	53.0	47.3	37.7	43.3	49.7
Liabilities					
Current and other liabilities	99.0	672.7	54.9	51.5	65.4
Long-term liabilities	1,281.8	647.7	623.4	602.8	589.8
Total liabilities	1,380.8	1,320.4	678.3	654.3	655.2
Deferred Inflows of Resources	-	-	-	14.6	4.4
Net Position					
Net investment in capital assets	943.1	918.1	981.3	1,074.6	1,178.5
Restricted for water services	179.3	185.4	165.1	148.6	221.5
Restricted for sewer services	225.6	257.7	243.2	131.5	178.3
Total net position	\$ 1,348.0	\$ 1,361.2	\$ 1,389.6	\$ 1,354.7	\$ 1,578.3

Irvine Ranch Water District

Net Position

For the Past Ten Fiscal Years

(in millions)

(Continued)

	Fiscal Year				
	2017 ⁽⁴⁾	2018 ⁽⁵⁾	2019	2020	2021
Assets					
Current and other assets	\$ 735.1	\$ 797.4	\$ 803.9	\$ 828.7	\$ 869.0
Capital assets	1,848.3	1,890.8	1,958.7	1,987.8	2,023.8
Total assets	2,583.4	2,688.2	2,762.6	2,816.5	2,892.8
Deferred Outflows of Resources	61.6	41.7	41.2	47.6	44.9
Liabilities					
Current and other liabilities	78.5	52.5	53.8	56.0	64.4
Long-term liabilities	790.9	831.7	817.4	812.4	797.4
Total liabilities	869.4	884.2	871.2	868.4	861.8
Deferred Inflows of Resources	3.6	4.8	4.5	3.9	1.7
Net Position					
Net investment in capital assets	1,087.9	1,155.5	1,238.8	1,283.8	1,336.7
Restricted for water services	264.3	289.5	313.0	350.0	384.0
Restricted for sewer services	419.8	395.9	376.2	358.0	353.5
Total net position	\$ 1,772.0	\$ 1,840.9	\$ 1,928.0	\$ 1,991.8	\$ 2,074.2

Source: Irvine Ranch Water District Basic Financial Statements

Notes:

- (1) The District implemented GASB Statement No. 65 for the fiscal year ended June 30, 2014 and restated the financial statements for the fiscal year ended June 30, 2013.
- (2) The District implemented GASB Statement Nos. 68 and 71 for the fiscal year ended June 30, 2015. The District did not restate the prior years' financial statements because the data for the prior years was not readily available.
- (3) The District implemented GASB Statement No. 72 for the fiscal year ended June 30, 2016. The District did not restate the prior years' financial statements because the data for the prior years was not readily available.
- (4) The prior period adjustment for the fiscal year ended June 30, 2017 was related to the reclassification of certain assets from capital assets to real estate investments. The District did not restate the prior years' financial statements because the data for the prior years was not readily available.
- (5) The District implemented GASB Implementation Guide No. 2017-1 and GASB Statement No. 75 for the fiscal year ended June 30, 2018. The District did not restate the prior years' financial statements because the data for the prior years was not readily available.

Irvine Ranch Water District

Changes in Net Position For the Past Ten Fiscal Years

(in thousands)

	Fiscal Year				
	2012	2013	2014	2015 ⁽¹⁾	2016 ⁽²⁾
Operating Revenues					
Water sales and service charges	\$ 57,558	\$ 62,565	\$ 66,321	\$ 70,110	\$ 76,692
Sewer sales and service charges	49,234	53,085	58,109	62,808	67,682
Total operating revenues	106,792	115,650	124,430	132,918	144,374
Operating Expenses					
Water:					
Water services	44,883	51,163	57,624	57,978	57,499
General and administrative	12,305	14,619	13,660	9,319	11,827
Sewer:					
Sewer services	33,086	38,189	37,715	54,575	40,413
General and administrative	7,792	8,048	8,612	5,826	7,625
Depreciation	41,378	47,539	46,809	51,015	58,330
Total operating expenses	139,444	159,558	164,420	178,713	175,694
Operating income (loss)	(32,652)	(43,908)	(39,990)	(45,795)	(31,320)
Nonoperating Revenues (Expenses)					
Property taxes	38,062	41,068	42,751	42,431	46,303
Investment income	3,132	224	1,079	1,214	1,249
Increase (decrease) in fair value of investments	(23,586)	(29,180)	(16,177)	(28)	(32)
JPA investment income	51,530	49,178	29,522	-	-
Real estate income	11,039	10,789	11,899	12,518	13,056
Increase (decrease) in fair value of real estate investments	-	-	-	-	5,597
Pension benefits trust interest and dividends income	-	-	-	-	-
Increase (decrease) in fair value of pension benefits trust investments	-	-	-	-	-
Other income	6,141	8,323	10,974	7,899	7,837
Interest expense	(16,924)	(16,770)	(15,836)	(13,903)	(15,415)
JPA interest expense	(39,603)	(28,884)	(17,166)	-	-
Real estate expense	(6,016)	(6,047)	(6,139)	(6,251)	(4,363)
Pension benefits trust expense	-	-	-	-	-
Other expenses	(10,713)	(6,110)	(7,163)	(9,752)	(2,800)
Total nonoperating revenue (expenses)	13,062	22,591	33,744	34,128	51,432
Income (loss) before capital contributions	(19,590)	(21,317)	(6,246)	(11,667)	20,112
Contributed capital assets	25,948	34,535	34,684	42,540	53,278
Increase (decrease) in net position	6,358	13,218	28,438	30,873	73,390
Net position at beginning of year	1,341,601	1,347,959	1,361,177	1,389,615	1,354,663
Prior period adjustments	-	-	-	(65,825)	150,258
Net position at end of year	\$ 1,347,959	\$ 1,361,177	\$ 1,389,615	\$ 1,354,663	\$ 1,578,311

Irvine Ranch Water District

Changes in Net Position For the Past Ten Fiscal Years

(in thousands)
(Continued)

	Fiscal Year				
	2017 ⁽³⁾	2018 ⁽⁴⁾	2019	2020	2021
Operating Revenues					
Water sales and service charges	\$ 77,252	\$ 84,575	\$ 94,107	\$ 90,213	\$ 96,609
Sewer sales and service charges	72,054	76,789	76,841	77,187	82,234
Total operating revenues	149,306	161,364	170,948	167,400	178,843
Operating Expenses					
Water:					
Water services	55,296	63,671	64,004	67,792	79,221
General and administrative	15,906	20,554	19,860	21,600	22,433
Sewer:					
Sewer services	42,752	38,115	43,734	49,497	51,540
General and administrative	9,059	12,332	15,786	17,106	19,489
Depreciation	61,841	63,877	64,835	67,554	68,002
Total operating expenses	184,854	198,549	208,219	223,549	240,685
Operating income (loss)	(35,548)	(37,185)	(37,271)	(56,149)	(61,842)
Nonoperating Revenues (Expenses)					
Property taxes	51,321	57,247	63,057	66,375	67,734
Investment income	2,843	4,133	6,199	7,790	5,285
Increase (decrease) in fair value of investments	(1,624)	(1,571)	5,188	2,319	(4,643)
JPA investment income	-	-	-	-	-
Real estate income	13,434	16,689	17,813	18,175	15,372
Increase (decrease) in fair value of real estate investments	10,084	4,091	6,095	552	25,702
Pension benefits trust interest and dividends income	-	3,003	2,140	3,274	4,431
Increase (decrease) in fair value of pension benefits trust investments	-	2,173	3,196	1,500	20,457
Other income	7,117	7,504	8,876	6,606	6,336
Interest expense	(18,784)	(26,034)	(25,481)	(22,167)	(20,754)
JPA interest expense	-	-	-	-	-
Real estate expense	(4,358)	(13,284)	(9,441)	(5,627)	(5,550)
Pension benefits trust expense	-	(51)	(53)	(61)	(61)
Other expenses	(1,997)	(174)	(2,615)	(5,239)	(1,432)
Total nonoperating revenue (expenses)	58,036	53,726	74,974	73,497	112,877
Income (loss) before capital contributions	22,488	16,541	37,703	17,348	51,035
Contributed capital assets	41,913	60,588	49,346	46,427	31,440
Increase (decrease) in net position	64,401	77,129	87,049	63,775	82,475
Net position at beginning of year	1,578,311	1,772,014	1,840,953	1,928,002	1,991,777
Prior period adjustments	129,302	(8,190)	-	-	-
Net position at end of year	\$ 1,772,014	\$ 1,840,953	\$ 1,928,002	\$ 1,991,777	\$ 2,074,252

Source: IRWD Basic Financial Statements

Notes:

- (1) The District implemented GASB Statement Nos. 68 and 71 for the fiscal year ended June 30, 2015. The District did not restate the prior years' financial statements because the data for the prior years was not readily available.
- (2) The District implemented GASB Statement No 72 for the fiscal years ended June 30, 2016 and 2017. The District did not restate the prior years' financial statements because the data for the prior years was not readily available.
- (3) The prior period adjustment for the fiscal year ended June 30, 2017 was related to the reclassification of certain assets from capital assets to real estate investments. The District did not restate the prior years' financial statements because the data for the prior years was not readily available.
- (4) The District implemented GASB Implementation Guide No. 2017-1 and GASB Statement No. 75 for the fiscal year ended June 30, 2018. The District did not restate the prior years' financial statements because the data for the prior years was not readily available.

Irvine Ranch Water District
 Water Sold By Type of Customer (in Acre Feet)
 For the Past Ten Fiscal Years

	Fiscal Year				
	2012	2013	2014	2015	2016
Residential	32,262	33,166	34,068	32,375	28,573
Commercial	8,021	8,353	8,803	8,391	8,377
Industrial	4,713	4,783	4,891	6,233	5,118
Public Authority	2,373	2,458	2,458	2,583	2,234
Construction & Temporary	275	378	739	863	1,230
Landscape	4,741	5,316	5,671	5,327	3,843
Agricultural	2,433	2,749	3,277	2,547	2,216
Landscape/Agricultural	25,011	28,259	30,021	32,139	26,386
Total	79,829	85,462	89,928	90,458	77,977

	Fiscal Year				
	2017	2018	2019	2020	2021
Residential	30,384	32,848	31,642	33,073	35,851
Commercial	8,179	8,769	8,624	7,818	7,744
Industrial	5,084	4,923	4,831	4,636	4,819
Public Authority	2,282	2,633	2,369	1,972	1,617
Construction & Temporary	874	1,292	542	480	543
Landscape	4,126	4,740	4,065	4,229	5,014
Agricultural	1,856	1,839	1,114	1,013	471
Landscape/Agricultural	26,374	29,736	26,153	29,659	31,042
Total	79,159	86,780	79,340	82,880	87,101

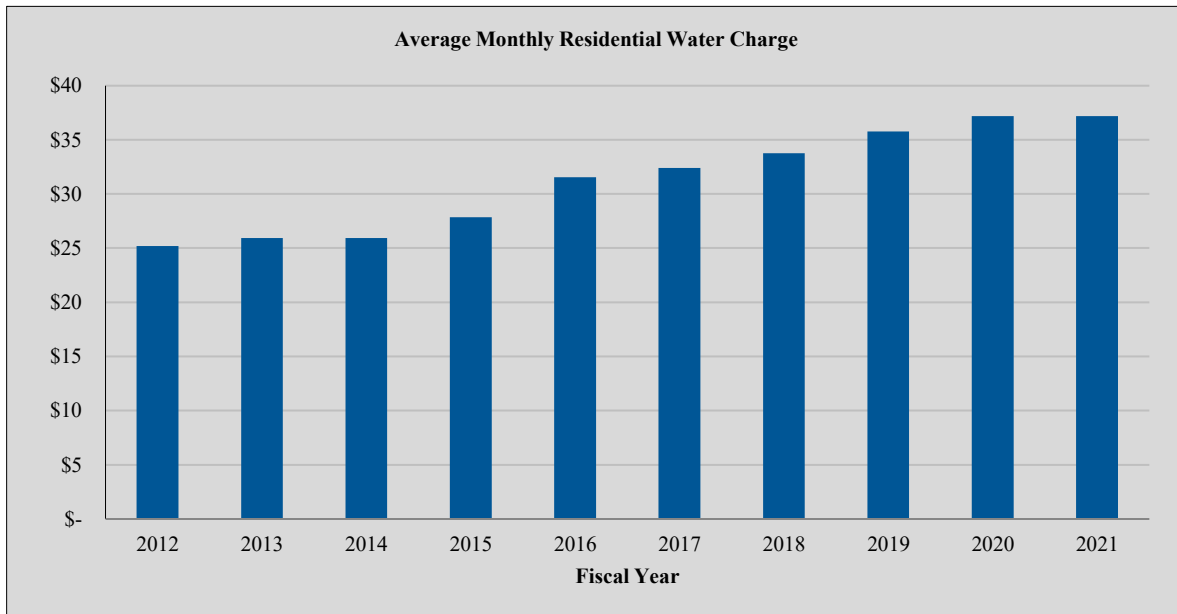
Source: Irvine Ranch Water District

Irvine Ranch Water District

Water Rates ⁽¹⁾

For the Past Ten Fiscal Years

Fiscal Year	Fixed Service Charge	Base Commodity Rate (per ccf)	Average Monthly Residential Charge
2012	\$ 8.75	\$ 1.22	\$ 25.19
2013	9.30	1.24	25.92
2014	9.85	1.27	26.74
2015	10.50	1.34	27.84
2016	10.30	1.62	31.54
2017	10.30	1.65	32.41
2018	10.30	1.70	33.76
2019	10.35	1.89	35.76
2020	10.35	2.00	37.17
2021	10.35	2.00	37.17



Source: Irvine Ranch Water District

Note:

⁽¹⁾The water charge to the average residential customer is based upon an average of 12 ccf per month. The first 5 ccf are at the District's low volume rate, which is \$0.53 less than the commodity base rate in FY 2021. The fixed monthly service charge includes components to add enhancement and replacement funds to assist with the District's aging infrastructure.

Irvine Ranch Water District
Largest Water Customers
Current Year and Nine Years Ago

Customer Name	2021			2012		
	Total Sales	Rank	Percentage of Water Sales Revenues	Total Sales	Rank	Percentage of Water Sales Revenues
The Irvine Company	\$ 8,390,738	1	8.69%	\$ 3,496,479	1	6.07%
Jazz Semiconductor	1,345,426	2	1.39%	668,429	4	1.16%
B Braun Medical, Inc	1,252,452	3	1.30%	510,160	5	0.89%
University of California - Irvine	1,003,540	4	1.04%	1,285,572	2	2.23%
Woodbridge Village Association	576,188	5	0.60%	388,341	6	0.67%
City of Lake Forest	335,905	6	0.35%			
Allergan Sales, LLC	312,719	7	0.32%			
City of Irvine	302,247	8	0.31%	1,007,256	3	1.75%
Trabuco Canyon Water District	257,386	9	0.27%			
ERP Operating LP	256,013	10	0.26%	182,670	10	0.32%
Irvine Unified School District				304,178	7	0.53%
County of Orange				273,061	8	0.47%
Caltrans District 12				271,094	9	0.47%
Total	\$ 14,032,614		14.52%	\$ 8,387,240		14.56%

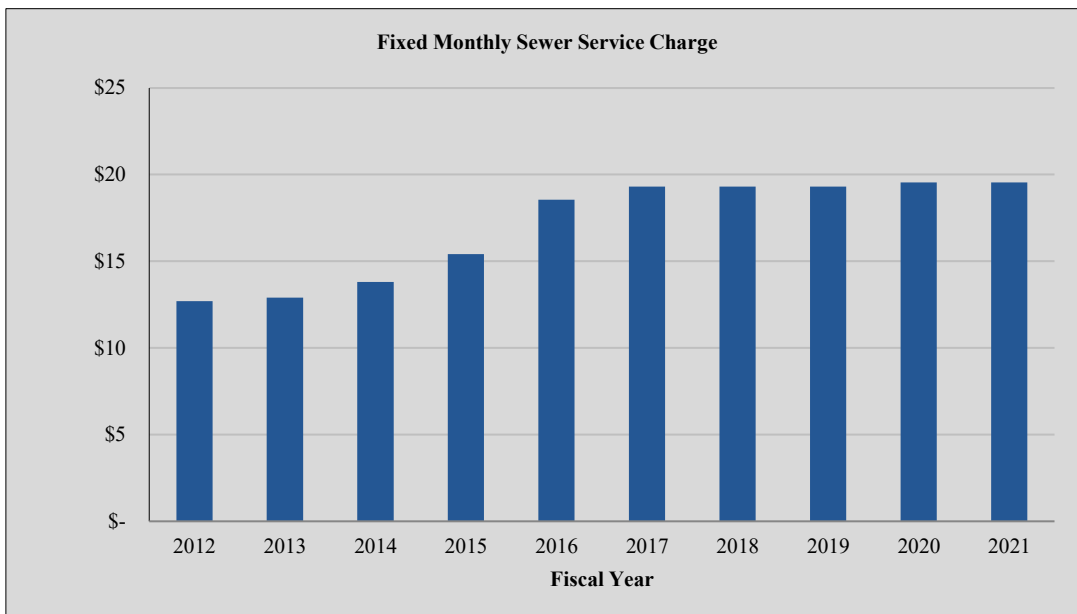
Source: Irvine Ranch Water District

Irvine Ranch Water District

Sewer Rates⁽¹⁾

For the Past Ten Fiscal Years

Fiscal Year	Fixed Monthly Service Charge
2012	\$ 12.70
2013	12.90
2014	13.80
2015	15.40
2016	18.55
2017	19.30
2018	19.30
2019	19.30
2020	19.55
2021	19.55



Source: Irvine Ranch Water District

Note:

⁽¹⁾ The fixed monthly sewer service charge is based on a typical residential customer's water usage for the lowest three months in the prior calendar year. The fixed monthly service charge includes components to add enhancement and replacement funds to assist with the District's aging infrastructure.

Irvine Ranch Water District
Largest Sewer Customers
Current Year and Nine Years Ago

Customer Name	2021			2012		
	Total Sales	Rank	Percentage of Sewer Sales Revenues	Total Sales	Rank	Percentage of Sewer Sales Revenues
The Irvine Company	\$ 13,244,269	1	16.11%	\$ 599,076	1	1.22%
City of Irvine	2,689,854	2	3.27%			
University of California - Irvine	1,852,244	3	2.25%			
B Braun Medical, Inc	824,295	4	1.00%			
Irvine Unified School District	732,261	5	0.89%			
Crystal Cove Community Assn	432,959	6	0.53%			
City of Tustin	404,762	7	0.49%			
Portola Springs Community Assn	377,830	8	0.46%			
Great Park Neighborhoods Community Assn	341,400	9	0.42%			
ERP Operating, LP	337,975	10	0.41%	188,978	6	0.38%
Royalty Carpet Mills				239,524	2	0.49%
Maruchan Inc				239,416	3	0.49%
Allergan Sales, LLC				236,507	4	0.48%
Villa Sienna Apartments				223,932	5	0.45%
Oakley Technical Center				185,862	7	0.38%
Newport Bluffs Apartments				162,462	8	0.33%
The Park at Sepctrum Apartments				148,341	9	0.30%
Airport Ind Complex				136,890	10	0.28%
Total	\$ 21,237,849		25.83%	\$ 2,360,988		4.80%

Source: Irvine Ranch Water District

Irvine Ranch Water District
Ad Valorem Property Tax Rates⁽¹⁾
For the Past Ten Fiscal Years

Improvement District	Fiscal Year									
	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
112	\$0.03168	\$0.03168	\$0.03168	\$0.03000	\$0.03000	\$0.03000	\$0.03000	\$0.03000	\$0.03000	\$0.01560
113	0.05940	0.05940	0.05940	0.03000	0.03000	0.04000	0.04000	0.04000	0.04000	0.04000
121	0.01311	0.01311	0.01311	N/A	N/A	N/A	N/A	N/A	N/A	N/A
125	N/A	N/A	N/A	0.01300	0.01300	0.01300	0.01300	0.01300	0.01300	0.01300
130	0.00680	0.00680	0.00680	N/A	N/A	N/A	N/A	N/A	N/A	N/A
135	0.00421	0.00421	0.00421	N/A	N/A	N/A	N/A	N/A	N/A	N/A
140	0.01000	0.01000	0.01000	N/A	N/A	N/A	N/A	N/A	N/A	N/A
150	0.01980	0.01980	0.01980	N/A	N/A	N/A	N/A	N/A	N/A	N/A
153	N/A	N/A	N/A	0.00001	0.00001	0.00001	0.02000	0.02000	0.02000	0.00900
161	0.01758	0.01758	0.01758	N/A	N/A	N/A	N/A	N/A	N/A	N/A
182	0.02700	0.02700	0.02700	N/A	N/A	N/A	N/A	N/A	N/A	N/A
184	0.01350	0.01350	0.01350	N/A	N/A	N/A	N/A	N/A	N/A	N/A
185	N/A	N/A	N/A	0.00001	0.00001	0.00001	0.02300	0.02300	0.02300	0.00810
186	0.04787	0.04787	0.04787	N/A	N/A	N/A	N/A	N/A	N/A	N/A
188	0.21540	0.21540	0.21540	0.21540	0.21540	0.21540	0.07350	0.07350	0.07350	0.03090
212	0.07452	0.07452	0.07452	0.04500	0.04500	0.04500	0.04500	0.04500	0.04500	0.04860
213	0.08720	0.08720	0.08720	0.03800	0.03800	0.05900	0.05900	0.05900	0.05900	0.05900
221	0.01700	0.01700	0.01700	N/A	N/A	N/A	N/A	N/A	N/A	N/A
225	N/A	N/A	N/A	0.01500	0.01500	0.01500	0.01500	0.01500	0.01500	0.01500
230	0.02200	0.02200	0.02200	N/A	N/A	N/A	N/A	N/A	N/A	N/A
235	0.00266	0.00266	0.00266	N/A	N/A	N/A	N/A	N/A	N/A	N/A
240	0.02140	0.02140	0.02140	0.01500	0.01500	0.01500	0.01500	0.01500	0.01500	0.01500
250	0.03600	0.03600	0.03600	N/A	N/A	N/A	N/A	N/A	N/A	N/A
252	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001
253	N/A	N/A	N/A	0.00001	0.00001	0.00001	0.02100	0.02100	0.02100	0.01300
261	0.02830	0.02830	0.02830	N/A	N/A	N/A	N/A	N/A	N/A	N/A
282	0.01890	0.01890	0.01890	N/A	N/A	N/A	N/A	N/A	N/A	N/A
284	0.03239	0.03239	0.03239	N/A	N/A	N/A	N/A	N/A	N/A	N/A
285	N/A	N/A	N/A	0.00001	0.00001	0.00001	0.03050	0.03050	0.03050	0.01370
286	0.00201	0.00201	0.00201	N/A	N/A	N/A	N/A	N/A	N/A	N/A
288	0.01000	0.01000	0.01000	0.01000	0.01000	0.01000	0.01000	0.01000	0.01000	0.00850

Source: Irvine Ranch Water District

Note:

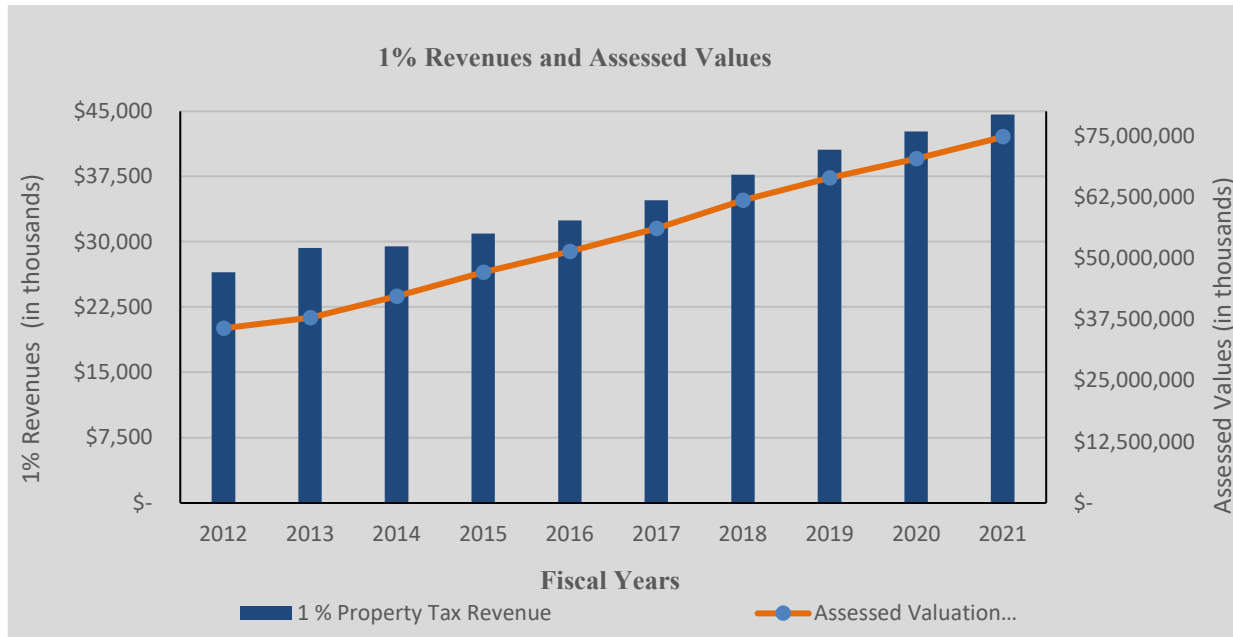
⁽¹⁾ The ad valorem property tax rates for the consolidated improvement districts are effective July 1, 2014.

Irvine Ranch Water District

Assessed Valuation and Estimated Actual Value of Taxable Property and 1% Property Tax Revenue For the Past Ten Fiscal Years

(in thousands)

Fiscal Year	Assessed Valuation (Land only)	1 % Property Tax Revenue
2012	\$ 35,661,242	\$ 26,478
2013	37,809,660	29,265
2014	42,205,844	29,445
2015	47,059,437	30,924
2016	51,340,888	32,427
2017	56,028,731	34,761
2018	61,803,980	37,693
2019	66,341,210	40,543
2020	70,305,737	42,669
2021	74,770,230	44,621



Source: Orange County Auditor-Controller and Orange County Tax Collector.

In 1978, the voters of the State of California passed Proposition 13 which limited property taxes to a total maximum rate of 1% based upon the assessed value of the property being taxed. Each year, the assessed value of property may be increased by an "inflation factor" (limited to a maximum increase of 2%). With few exceptions, property is only reassessed at the time that it is sold to a new owner. At that point, the new assessed value is reassessed at the purchase price of the property sold.

Irvine Ranch Water District
 Direct and Overlapping Property Tax Rates
 Fiscal Year Ended June 30, 2021

Direct Rate:

Irvine Ranch Water District I.D. No. 112	\$0.01560
Irvine Ranch Water District I.D. No. 113	0.04000
Irvine Ranch Water District I.D. No. 125	0.01300
Irvine Ranch Water District I.D. No. 153	0.00900
Irvine Ranch Water District I.D. No. 185	0.00810
Irvine Ranch Water District I.D. No. 188	0.03090
Irvine Ranch Water District I.D. No. 212	0.04860
Irvine Ranch Water District I.D. No. 213	0.05900
Irvine Ranch Water District I.D. No. 225	0.01500
Irvine Ranch Water District I.D. No. 240	0.01500
Irvine Ranch Water District I.D. No. 252	0.00001
Irvine Ranch Water District I.D. No. 253	0.01300
Irvine Ranch Water District I.D. No. 285	0.01370
Irvine Ranch Water District I.D. No. 288	0.00850

Overlapping Rates:

School Districts:

Coast Community College District	0.03181
Rancho Santiago Community College District	0.02768
Rancho Santiago Community College District SFID 1	0.01752
Irvine Unified School District SFID No. 1	0.02802
Laguna Beach Unified School District	0.01012
Newport Mesa Unified School District	0.01754
Orange Unified School District	0.01664
Saddleback Valley Unified School District	0.02336
Santa Ana Unified School District	0.08127
Tustin Unified School District SFID 2002-1	0.02665
Tustin Unified School District SFID 2008-1	0.02951
Tustin Unified School District SFID 2012-1	0.01586

Source: California Municipal Statistics, Inc.

Irvine Ranch Water District
Principal Property Taxpayers
Fiscal Year Ended June 30, 2021

Property Owner's Name	Assessed Valuation of Property, including Land & Improvements	Percentage of Total City Taxable Assessed Value
The Irvine Company	\$ 2,572,452,171	3.03%
B Braun Medical Inc	483,821,730	0.57%
Allergan USA Inc	463,434,524	0.55%
Irvine Apartment Communities LP	444,280,885	0.52%
Five Point Office Venture I LLC	441,763,714	0.52%
Jamboree Center LLC	419,714,237	0.49%
Irvine Office Towers 1 LLC	402,549,757	0.47%
Park Place Michelson LLC	371,561,875	0.44%
Park I/II Spectrum LLC	361,279,591	0.43%
Edwards Lifesciences LLC	357,585,130	0.42%
	\$ 6,318,443,614	7.44%

Source: City of Irvine Comprehensive Annual Financial Report
(Fiscal Year Ended June 30, 2020).
Data was not yet available for FY 2020/21 from the City of Irvine.
The City of Irvine is only a part of the IRWD service area.

Irvine Ranch Water District
Property Tax Collections/Delinquency
For the Past Ten Fiscal Years

Fiscal Year	Levied During Fiscal Year		Collected During Fiscal Year	
	1 Percent ⁽¹⁾	General Obligation ⁽²⁾	1 Percent	General Obligation ⁽³⁾
2012	\$ 26,749,900	\$ 10,558,510	\$ 25,953,788	\$ 11,716,056
2013	26,749,900	10,733,998	29,265,283	11,802,915
2014	26,749,900	11,374,556	27,606,048	12,463,175
2015	29,000,000	9,203,641	28,668,756	9,585,904
2016	31,900,000	11,133,538	31,115,506	10,879,713
2017	33,500,000	11,679,081	33,318,168	12,822,313
2018	35,000,000	13,964,731	35,977,694	15,482,916
2019	39,000,000	16,142,433	38,717,848	17,906,438
2020	45,000,000	18,480,090	40,739,166	19,603,125
2021	46,000,000	18,367,833	42,670,804	18,868,884
Total	\$ 339,649,700	\$ 131,638,411	\$ 334,033,061	\$ 141,131,439

Fiscal Year	Percentage Collected		Amount of Levy Collected in Subsequent Periods	
	1 Percent	General Obligation	1 Percent	General Obligation
2012	97.02%	110.96%	\$ 733,450	\$ 118,691
2013	109.40%	109.96%	989,396	438,947
2014	103.20%	109.57%	1,148,873	988,796
2015	98.86%	104.15%	2,275,461	4,888
2016	97.54%	97.72%	1,192,700	884,301
2017	99.46%	109.79%	1,230,854	1,443,272
2018	102.79%	110.87%	1,542,713	1,635,416
2019	99.28%	110.93%	1,510,697	1,911,630
2020	90.53%	106.08%	1,749,765	1,515,136
2021	92.76%	102.73%	2,072,539	1,183,562
Total			\$ 14,446,448	\$ 10,124,639

Source County of Orange Tax Ledger

Notes:

- ⁽¹⁾ The estimated levy for one percent revenue is generated internally and it is based on prior year receipts and developer growth projections.
- ⁽²⁾ The estimated levy for G.O. tax receipts is based on the county's assessed value projection multiplied by the tax rate assessed within each improvement district.
- ⁽³⁾ The General Obligation column for Collected tax receipts includes an unbudgeted utility tax revenue from improvement districts 190/290 that adds approximately \$400K per year.

Irvine Ranch Water District
Outstanding Debt by Type ⁽¹⁾
For the Past Ten Fiscal Years

Fiscal Year	Total Service Connections ⁽²⁾	General Obligation Bonds ⁽³⁾	GO Debt per Connection	Certificates of Participation	COPS Debt per Connection
2012	193,293	\$ 548,549,000	\$ 2,838	\$ 83,616,000	\$ 433
2013	196,596	534,343,000	2,718	78,698,000	400
2014	200,559	515,900,000	2,572	73,565,000	367
2015	203,762	503,800,000	2,472	67,293,000	330
2016	209,267	491,200,000	2,347	60,387,000	289
2017	215,573	608,118,000	2,821	153,626,000	713
2018	222,918	586,493,000	2,631	150,275,000	674
2019	227,749	574,669,000	2,523	146,744,000	644
2020	231,439	562,645,000	2,431	143,028,000	618
2021	235,819	550,421,000	2,334	138,232,000	586

Irvine Ranch Water District
Outstanding Debt by Type ⁽¹⁾
For the Past Ten Fiscal Years
(Continued)

Fiscal Year	JPA Revenue Bonds	JPA Debt per Connection	Notes Payable	Notes Payable per Connection	Total Debt	Total Debt per Connection
2012	\$ 638,521,000	\$ 3,303	\$ 2,494,000	\$ 13	\$ 1,273,180,000	\$ 6,587
2013	610,568,000	3,106	2,240,000	11	1,225,849,000	6,235
2014	-	-	1,984,000	10	591,449,000	2,949
2015	-	-	1,728,000	8	572,821,000	2,811
2016	-	-	1,469,000	7	553,056,000	2,643
2017	-	-	1,209,000	6	762,953,000	3,539
2018	-	-	947,000	4	737,715,000	3,309
2019	-	-	684,000	3	722,097,000	3,171
2020	-	-	419,000	2	706,092,000	3,051
2021	-	-	347,000	1	689,000,000	2,922

Source: Irvine Ranch Water District

Notes:

⁽¹⁾ More detail about the District's long-term liabilities can be found in Note 9 to the Basic Financial Statements.

⁽²⁾ Per Capita income information for the Irvine Ranch Water District is not readily available. Accordingly, the District presents this schedule by total service connections.

⁽³⁾ Includes unamortized discount/deferred loss on refunding for the fiscal year 2012 through the fiscal year 2013.

Irvine Ranch Water District
Outstanding General Obligation Bonds by Improvement District
As of June 30, 2021

Improvement District	General Obligation Bonds Authorized	General Obligation Bonds Issued	Remaining Unissued General Obligation Bonds Authorized	Amount Outstanding as of June 30, 2021
112	\$ 28,512,300	\$ 8,111,000	\$ 20,401,300	\$ 7,293,000
113	25,769,500	16,300,000	9,469,500	13,750,000
125	735,246,000	429,729,000	305,517,000	174,616,000
153	237,300,000	7,601,000	229,699,000	7,601,000
154	4,839,000	-	4,839,000	-
185	13,500,000	1,493,000	12,007,000	1,493,000
188	8,174,000	4,590,000	3,584,000	1,579,000
Total	\$ 1,053,340,800	\$ 467,824,000	\$ 585,516,800	\$ 206,332,000
210	\$ 2,000,000	\$ 2,000,000	\$ -	\$ -
212	108,711,800	26,013,000	82,698,800	23,827,000
213	87,647,500	28,565,000	59,082,500	22,267,000
225	856,643,000	493,304,000	363,339,000	245,995,000
240	117,273,000	49,722,000	67,551,000	15,240,000
253	122,283,000	11,877,000	110,406,000	11,877,000
285	21,300,000	1,809,000	19,491,000	1,809,000
288	8,977,000	443,000	8,534,000	353,000
Total	\$ 1,324,835,300	\$ 613,733,000	\$ 711,102,300	\$ 321,368,000
Total	\$ 2,378,176,100	\$ 1,081,557,000	\$ 1,296,619,100	\$ 527,700,000

Source: Irvine Ranch Water District

Irvine Ranch Water District
Ratio of General Obligation Debt to Assessed Values ⁽¹⁾
for the Past Ten Fiscal Years

Fiscal Year	Assessed Valuation	General Obligation Debt Outstanding	General Obligation Debt to Assessed Valuation	Fiscal Year	Assessed Valuation	General Obligation Debt Outstanding	General Obligation Debt to Assessed Valuation
Improvement District 112				Improvement District 212			
2012	\$ 504,820,526	\$ 5,745,000	0.01138028	2012	\$ 504,820,526	\$ 15,705,000	0.03111007
2013	511,871,892	5,653,500	0.01104476	2013	511,871,892	15,461,500	0.03020580
2014	780,606,904	5,562,000	0.00712523	2014	780,606,904	15,218,000	0.01949509
2015	1,333,029,836	5,470,000	0.00410343	2015	1,333,029,836	14,974,000	0.01123306
2016	1,850,638,433	5,378,000	0.00290602	2016	1,850,638,433	14,731,000	0.00795996
2017	2,077,681,111	7,658,000	0.00368584	2017	2,077,681,111	24,801,000	0.01193687
2018	2,795,881,726	7,567,000	0.00270648	2018	2,795,881,726	24,558,000	0.00878363
2019	3,230,805,159	7,476,000	0.00231397	2019	3,230,805,159	24,314,000	0.00752568
2020	3,706,557,300	7,384,000	0.00199227	2020	3,706,557,300	24,070,000	0.00649398
2021	3,874,872,238	7,293,000	0.00188213	2021	3,874,872,238	23,827,000	0.00614911
Improvement District 113				Improvement District 213			
2012	\$ 536,369,090	\$ 15,794,500	0.02944707	2012	\$ 536,369,090	\$ 23,418,645	0.04366144
2013	562,239,093	15,541,750	0.02764260	2013	562,239,093	22,828,480	0.04060280
2014	674,596,339	14,150,000	0.02097551	2014	674,596,339	22,074,000	0.03272179
2015	827,524,085	13,900,000	0.01679709	2015	827,524,085	21,488,000	0.02596662
2016	885,391,548	13,638,000	0.01540335	2016	885,391,548	20,839,000	0.02353648
2017	1,031,821,023	14,870,000	0.01441141	2017	1,031,821,023	24,950,000	0.02418055
2018	1,143,798,184	14,597,000	0.01276187	2018	1,143,798,184	24,288,000	0.02123452
2019	1,186,452,170	14,320,000	0.01206960	2019	1,186,452,170	23,621,000	0.01990894
2020	1,283,110,993	14,037,000	0.01094015	2020	1,283,110,993	22,947,000	0.01788419
2021	1,334,069,673	13,750,000	0.01030681	2021	1,334,069,673	22,267,000	0.01669103
Improvement District 125				Improvement District 225			
2012	n/a	n/a	n/a	2012	n/a	n/a	n/a
2013	n/a	n/a	n/a	2013	n/a	n/a	n/a
2014	\$ 29,578,638,615	\$ 192,075,000	0.00649371	2014	\$ 24,757,488,949	\$ 240,995,000	0.00973423
2015	32,752,414,757	187,604,000	0.00572794	2015	27,557,606,802	235,865,000	0.00855898
2016	35,506,392,050	182,932,000	0.00515209	2016	29,945,134,379	230,535,000	0.00769858
2017	38,802,873,378	194,719,000	0.00501816	2017	32,838,922,602	268,655,000	0.00818099
2018	42,983,731,609	187,049,000	0.00435162	2018	36,549,538,031	260,260,000	0.00712075
2019	45,924,240,097	184,083,000	0.00400841	2019	39,234,190,651	256,320,000	0.00653308
2020	48,290,836,261	178,837,000	0.00370333	2020	41,383,837,339	250,818,000	0.00606078
2021	50,618,755,410	174,616,000	0.00344963	2021	43,435,406,719	245,995,000	0.00566347

Irvine Ranch Water District
Ratio of General Obligation Debt to Assessed Values ⁽¹⁾
for the Past Ten Fiscal Years
(continued)

Fiscal Year	Assessed Valuation	General Obligation Debt Outstanding	General Obligation Debt to Assessed Valuation	Fiscal Year	Assessed Valuation	General Obligation Debt Outstanding	General Obligation Debt to Assessed Valuation
Improvement District 240							
2012	\$ 4,973,007,663	\$ 28,081,173	0.00564672	2012	\$ 8,114,060	n/a	n/a
2013	5,343,804,951	26,441,526	0.00494807	2013	8,475,848	n/a	n/a
2014	5,609,174,229	24,078,000	0.00429261	2014	228,692,347	n/a	n/a
2015	6,031,968,996	22,767,000	0.00377439	2015	666,622,225	n/a	n/a
2016	6,449,202,772	21,431,000	0.00332305	2016	1,287,363,937	n/a	n/a
2017	7,000,292,817	21,271,000	0.00303859	2017	2,893,148,966	\$ 11,877,000	0.00410522
2018	7,667,626,922	17,921,000	0.00233723	2018	4,097,566,306	11,877,000	0.00289855
2019	8,000,510,347	17,202,000	0.00215011	2019	5,118,350,587	11,877,000	0.00232047
2020	8,281,189,054	16,177,000	0.00195352	2020	5,812,018,792	11,877,000	0.00204357
2021	8,600,764,183	15,240,000	0.00177194	2021	6,577,643,858	11,877,000	0.00180566
Improvement District 153							
2012	\$ 8,114,060	n/a	n/a				
2013	8,475,848	n/a	n/a				
2014	8,687,744	n/a	n/a				
2015	666,622,225	n/a	n/a				
2016	1,287,363,937	n/a	n/a				
2017	2,893,148,966	\$ 7,601,000	0.00262724				
2018	4,097,566,306	7,601,000	0.00185500				
2019	5,118,350,587	7,601,000	0.00148505				
2020	5,812,018,792	7,601,000	0.00130785				
2021	6,577,643,858	7,601,000	0.00115558				
Improvement District 253							
2012	\$ 8,114,060	n/a	n/a	2012	\$ 8,114,060	n/a	n/a
2013	8,475,848	n/a	n/a	2013	8,475,848	n/a	n/a
2014	228,692,347	n/a	n/a	2014	228,692,347	n/a	n/a
2015	666,622,225	n/a	n/a	2015	666,622,225	n/a	n/a
2016	1,287,363,937	n/a	n/a	2016	1,287,363,937	n/a	n/a
2017	2,893,148,966	\$ 11,877,000	0.00410522	2017	2,893,148,966	\$ 11,877,000	0.00410522
2018	4,097,566,306	11,877,000	0.00289855	2018	4,097,566,306	11,877,000	0.00289855
2019	5,118,350,587	11,877,000	0.00232047	2019	5,118,350,587	11,877,000	0.00232047
2020	5,812,018,792	11,877,000	0.00204357	2020	5,812,018,792	11,877,000	0.00204357
2021	6,577,643,858	11,877,000	0.00180566	2021	6,577,643,858	11,877,000	0.00180566
Improvement District 154							
2012	\$ 9,127,678	n/a	n/a				
2013	9,334,512	n/a	n/a				
2014	9,111,103	n/a	n/a				
2015	9,289,351	n/a	n/a				
2016	9,266,433	n/a	n/a				
2017	9,376,883	n/a	n/a				
2018	9,529,712	n/a	n/a				
2019	9,720,296	n/a	n/a				
2020	9,914,693	n/a	n/a				
2021	10,017,398	n/a	n/a				

Irvine Ranch Water District
Ratio of General Obligation Debt to Assessed Values ⁽¹⁾
for the Past Ten Fiscal Years
(continued)

Fiscal Year	Assessed Valuation	General Obligation Debt Outstanding	General Obligation Debt to Assessed Valuation	Fiscal Year	Assessed Valuation	General Obligation Debt Outstanding	General Obligation Debt to Assessed Valuation
Improvement District 185				Improvement District 285			
2012	n/a	n/a	n/a	2012	n/a	n/a	n/a
2013	n/a	n/a	n/a	2013	n/a	n/a	n/a
2014	\$ 85,119,097	n/a	n/a	2014	\$ 85,119,097	n/a	n/a
2015	209,634,682	n/a	n/a	2015	209,634,682	n/a	n/a
2016	586,316,903	n/a	n/a	2016	586,316,903	n/a	n/a
2017	836,640,799	\$ 1,493,000	0.00178452	2017	836,640,799	\$ 1,809,000	0.00216222
2018	1,209,166,559	1,493,000	0.00123473	2018	1,209,166,559	1,809,000	0.00149607
2019	1,465,394,626	1,493,000	0.00101884	2019	1,465,394,626	1,809,000	0.00123448
2020	1,262,000,047	1,493,000	0.00118295	2020	1,262,000,047	1,809,000	0.00143326
2021	1,299,866,233	1,493,000	0.00114858	2021	1,299,866,233	1,809,000	0.00139168
Improvement District 188				Improvement District 288			
2012	\$ 14,165,606	\$ 1,942,809	0.13714973	2012	\$ 14,165,606	\$ 300,000	0.02117806
2013	14,448,912	1,714,661	0.11867060	2013	14,448,912	290,000	0.02007072
2014	14,446,476	1,468,000	0.10161648	2014	14,446,476	280,000	0.01938189
2015	14,735,113	1,462,000	0.09921879	2015	14,735,113	270,000	0.01832358
2016	185,851,827	1,456,000	0.00783420	2016	185,851,827	260,000	0.00139896
2017	196,953,990	1,603,000	0.00813896	2017	196,953,990	393,000	0.00199539
2018	212,742,385	1,597,000	0.00750673	2018	212,742,385	383,000	0.00180030
2019	246,753,329	1,591,000	0.00644773	2019	246,753,329	373,000	0.00151163
2020	255,088,204	1,585,000	0.00621204	2020	255,088,204	363,000	0.00142345
2021	284,644,152	1,579,000	0.00554728	2021	284,644,152	353,000	0.00124014

Source: Irvine Ranch Water District

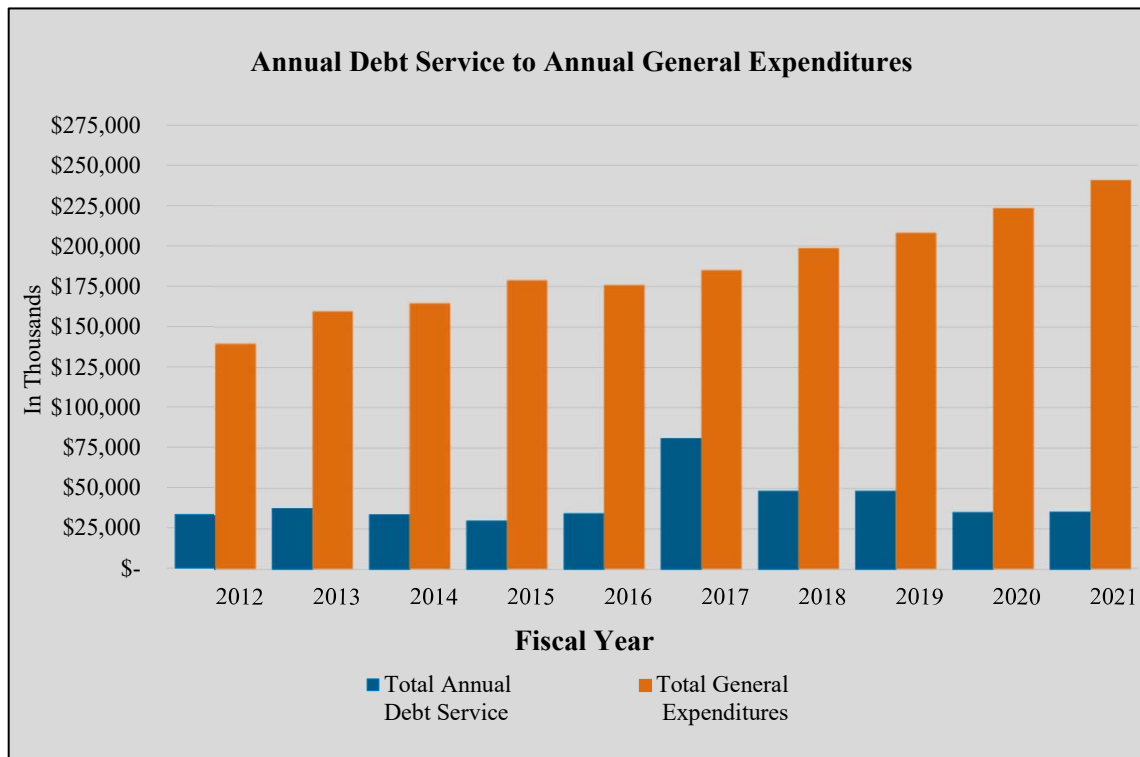
Note:

⁽¹⁾ In December 2013, the District consolidated water ID's 120, 121, 130, 140, 150, 160, 161, 182, 184, and 186 into ID 125 and sewer ID's 220, 221, 230, 250, 260, 261, 282, 284, and 286 into ID 225.

Irvine Ranch Water District

Ratio of Annual Debt Service Expenditures to Total General Expenditures
For the Past Ten Fiscal Years
(in thousands)

Fiscal Year	Total Annual Debt Service	Total General Expenditures	Ratio of Total Annual Debt Service to Total General Expenditures
2012	\$ 33,437	\$ 139,444	24.0%
2013	37,734	159,558	23.6%
2014	34,009	164,420	20.7%
2015	29,921	178,713	16.7%
2016	34,560	175,694	19.7%
2017	81,029	184,854	43.8%
2018	48,349	198,549	24.4%
2019	48,529	208,219	23.3%
2020	35,247	223,549	15.8%
2021	35,474	240,685	14.7%



Source: Irvine Ranch Water District

Irvine Ranch Water District
Debt Service Coverage (in thousands)
For the Past Ten Fiscal Years

	Fiscal Year				
	2012	2013	2014	2015	2016
Revenues					
Water sales and service charges	\$ 57,558	\$ 62,565	\$ 66,321	\$ 70,110	\$ 76,692
Sewer sales and service charges	49,234	53,085	58,109	62,808	67,682
Developer Connection fees	9,030	17,314	22,429	29,183	32,109
Net real estate income	6,736	6,566	7,760	8,191	8,693
Interest income	1,739	1,549	1,671	1,515	1,585
Net earnings on JPA	11,927	20,294	12,356	-	-
Available 1% property tax revenue	23,165	25,796	28,532	29,770	31,645
Other	6,141	8,323	10,974	7,899	7,836
Total Revenues	165,530	195,492	208,152	209,476	226,242
Expenses					
Water supply services	44,883	51,163	57,624	57,978	57,499
Sewer services	33,086	38,189	37,715	54,575	40,413
Administrative and general	20,097	22,667	17,487	16,012	19,909
Pension and OPEB Expense	-	-	4,785	2,237	2,831
Other	10,713	6,110	7,163	9,752	2,800
Total Expenses	108,779	118,129	124,774	140,554	123,452
Net Revenues	\$ 56,751	\$ 77,363	\$ 83,378	\$ 68,922	\$ 102,790
Applicable <i>Ad Valorem</i> Assessments Available for GO Double-Barrel Bonds	\$ 5,823	\$ 5,838	\$ 6,409	\$ 4,839	\$ 6,036
Parity Obligations					
Certificates of Participation	\$ 8,016	\$ 8,388	\$ 8,753	\$ 9,098	\$ 9,487
1997 State Loan #3	226	226	227	227	227
Series 2010B Bonds	7,533	7,519	7,825	7,829	7,823
Series 2011-A Index Tender Notes	2,284	2,306	2,360	2,455	2,927
2016 General Obligation	-	-	-	-	-
Total Parity Obligations Debt Service	18,059	18,439	19,165	19,609	20,464
Remaining Revenues	\$ 44,515	\$ 64,762	\$ 70,622	\$ 54,152	\$ 88,362
Parity Obligation Coverage	3.5 x	4.5 x	4.7 x	3.8 x	5.3 x
Subordinate Obligations					
Fixed Payer Swap Payments	\$ 7,734	\$ 7,452	\$ 7,475	\$ 7,734	\$ 7,712
State Loans and SCWD Debt	308	308	308	308	308
Total Subordinate Obligations	8,042	7,760	7,783	8,042	8,020
Remaining Revenues	\$ 36,473	\$ 57,002	\$ 62,839	\$ 46,110	\$ 80,342
Non-Double-Barrel GO Bonds					
Revenues Pledged to Non-Double-Barrel GO Bonds					
1% Property tax revenues (Pledged to Secured Bonds)	\$ 3,313	\$ 3,470	\$ 3,013	\$ 3,358	\$ 3,226
Pro-rata Share <i>Ad valorem</i> Assessments for Non-Double-Barrel GO Bonds	5,761	5,965	4,797	4,463	5,396
Sub-total Pledged Revenues	45,547	66,437	70,649	53,931	88,964
Additional Funds Available for Non-Double-Barrel GO Bonds					
Remaining 1% Property Tax Revenues	23,165	25,796	28,532	29,770	31,645
Additional Net Revenues	13,308	25,248	34,307	16,340	48,697
Total with Additional Pledged Revenues	\$ 45,547	\$ 66,437	\$ 70,649	\$ 53,931	\$ 88,964
Debt Service					
Non-Double-Barrel GO Bond Debt Service	\$ 16,899	\$ 17,129	\$ 10,968	\$ 12,840	\$ 11,173
GO Bond Coverage	2.7 x	3.9 x	6.4 x	4.2 x	8.0 x
Remaining Revenues	\$ 28,648	\$ 49,308	\$ 59,681	\$ 41,091	\$ 77,791
Total Debt Coverage	1.7 x	2.1 x	2.6 x	2.0 x	3.0 x

Irvine Ranch Water District
Debt Service Coverage (in thousands)
For the Past Ten Fiscal Years
(Continued)

	Fiscal Year				
	2017	2018	2019	2020	2021
Revenues					
Water sales and service charges	\$ 77,252	\$ 84,575	\$ 94,107	\$ 90,213	\$ 96,609
Sewer sales and service charges	72,054	76,789	76,841	77,187	82,234
Developer Connection fees	25,563	32,674	18,205	10,943	18,913
Net real estate income	9,076	3,405	8,372	12,549	9,822
Interest income	3,210	4,133	6,199	7,790	5,285
Net earnings on JPA	-	-	-	-	-
Available 1% property tax revenue	34,247	29,649	42,389	44,463	47,172
Other	7,117	7,504	8,876	6,606	6,336
Total Revenues	228,519	238,729	254,989	249,751	266,371
Expenses					
Water supply services	55,296	63,671	64,004	67,792	79,221
Sewer services	42,752	38,115	43,734	49,497	51,540
Administrative and general	22,664	25,748	28,220	28,336	30,170
Pension and OPEB Expense	5,146	7,138	7,426	10,370	11,753
Other	1,997	174	2,615	5,240	1,432
Total Expenses	127,855	134,846	145,999	161,235	174,116
Net Revenues	\$ 100,664	\$ 103,883	\$ 108,990	\$ 88,516	\$ 92,255
Applicable <i>Ad Valorem</i> Assessments Available for GO Double-Barrel Bonds	\$ 8,605	\$ 10,499	\$ 12,554	\$ 13,548	\$ 13,009
Parity Obligations					
Certificates of Participation	\$ 11,675	\$ 7,722	\$ 7,821	\$ 7,916	\$ 9,304
1997 State Loan #3	194	194	194	194	-
Series 2010B Bonds	7,813	7,807	7,792	7,778	7,756
Series 2011-A Index Tender Notes	2,967	3,675	4,045	3,887	3,236
2016 General Obligation	1,605	5,301	5,301	5,301	5,301
Total Parity Obligations Debt Service	24,254	24,699	25,153	25,076	25,597
Remaining Revenues	\$ 85,015	\$ 89,683	\$ 96,391	\$ 76,988	\$ 79,667
Parity Obligation Coverage	4.5 x	4.6 x	4.8 x	4.1 x	4.1 x
Subordinate Obligations					
Fixed Payer Swap Payments	\$ 6,798	\$ 5,739	\$ 4,513	\$ 2,496	\$ 3,331
State Loans and SCWD Debt	133	122	122	100	108
Total Subordinate Obligations	6,931	5,861	4,635	2,596	3,439
Remaining Revenues	\$ 78,084	\$ 83,822	\$ 91,756	\$ 74,392	\$ 76,228
Non-Double-Barrel GO Bonds					
Revenues Pledged to Non-Double-Barrel GO Bonds					
1% Property tax revenues (Pledged to Secured Bonds)	\$ 3,128	\$ 10,834	\$ 1,192	\$ 1,141	\$ 860
Pro-rata Share <i>Ad valorem</i> Assessments for Non-Double-Barrel GO Bonds	5,341	6,265	6,922	7,223	6,693
Sub-total Pledged Revenues	86,553	100,921	99,870	82,756	83,781
Additional Funds Available for Non-Double-Barrel GO Bonds					
Remaining 1% Property Tax Revenues	34,247	29,649	42,389	44,463	47,172
Additional Net Revenues	43,837	54,173	49,367	29,929	29,056
Total with Additional Pledged Revenues	\$ 86,553	\$ 100,921	\$ 99,870	\$ 82,756	\$ 83,781
Debt Service					
Non-Double-Barrel GO Bond Debt Service	\$ 12,385	\$ 20,843	\$ 11,436	\$ 10,781	\$ 9,222
GO Bond Coverage	7.0 x	4.8 x	8.7 x	7.7 x	9.1 x
Remaining Revenues	\$ 74,168	\$ 80,078	\$ 88,434	\$ 71,975	\$ 74,559
Total Debt Coverage	2.7 x	2.6 x	3.1 x	2.9 x	2.9 x

Source: Irvine Ranch Water District

Irvine Ranch Water District
Principal Employers
Fiscal Year Ended June 30, 2021

Name of Company	Number of Employees	Percentage of Employment
University of California Irvine	25,827	9.40%
Blizzard Entertainment Inc	4,022	1.46%
Master North America Inc	4,000	1.46%
Irvine Unified School District	3,959	1.44%
Edwards Lifesciences LLC	3,152	1.15%
B Braun Medical	1,910	0.70%
Broadcom	1,900	0.69%
Parker Hannifin Corporation	1,650	0.60%
Glidewell Laboratories	1,538	0.56%
Western Digital	1,350	0.49%
		17.95%

Source: City of Irvine Comprehensive Annual Financial Report
(Fiscal Year Ended June 30, 2020).
Data was not yet available for FY 2020/21 from the City of Irvine.
The City of Irvine is only a part of the IRWD service area.

Irvine Ranch Water District
Demographic & Economic Statistics
For the Past Ten Fiscal Years

Fiscal Year	IRWD Population ⁽¹⁾	City of Irvine Population	City of Irvine Median Family Income	Total Personal Income (in thousands)	County of Orange Unemployment Rate ⁽³⁾
2012	350,000	223,729	\$ 90,939	\$ 8,886,628	7.9%
2013	364,000	231,117	92,599	8,174,011	6.1%
2014	372,000	242,651	92,663	9,595,168	5.0%
2015	382,000	250,384	90,585	10,593,508	4.2%
2016	392,000	258,386	91,999	10,946,242	3.6%
2017	402,000	267,086	92,278	12,840,224	3.2%
2018	409,000	276,176	93,823	12,272,130	2.6%
2019	415,000	280,202	104,185	12,272,130	2.4%
2020	422,000	281,707	100,969	12,788,062	13.7%
2021	428,000	N/A ⁽²⁾	N/A ⁽²⁾	N/A ⁽²⁾	6.4%

Source: City of Irvine Comprehensive Annual Financial Report (Fiscal Year Ended June 30, 2020) and County of Orange website.
 Data for the entire Irvine Ranch Water District service area is not readily available.
 The City of Irvine is only a part of the IRWD service area.

Note:

- ⁽¹⁾ Irvine Ranch Water District
- ⁽²⁾ City of Irvine Population, Median Family Income, and Total Personal Income for FY 2021 have not yet been published by the City of Irvine.
- ⁽³⁾ Employment Development Department

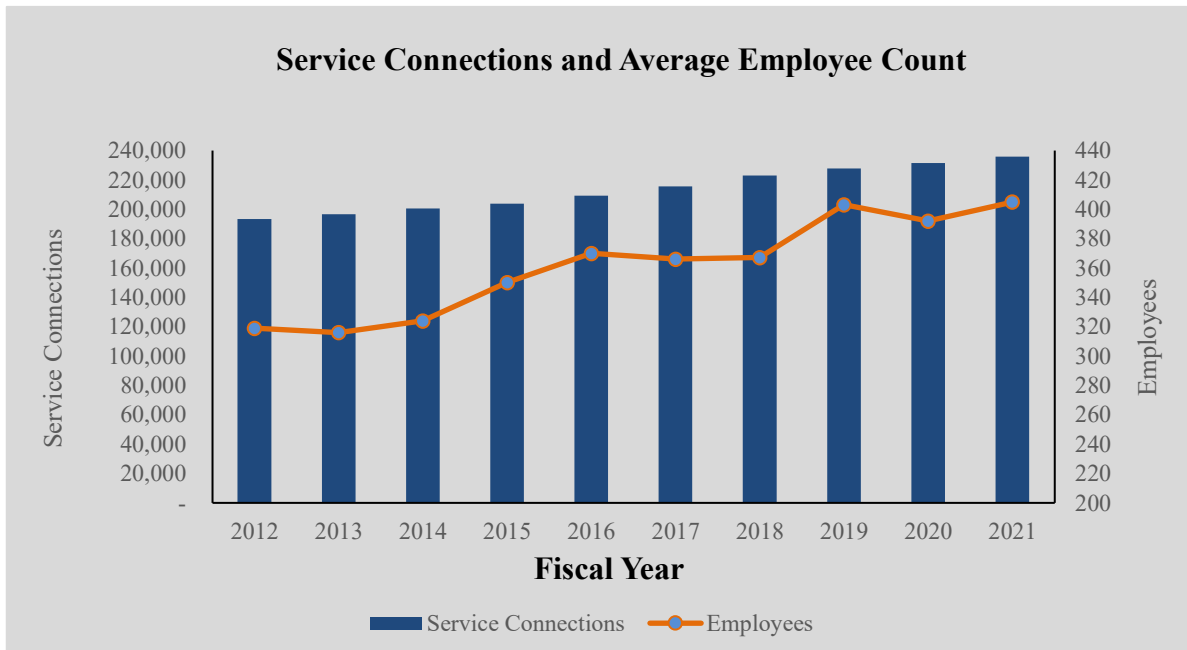
Irvine Ranch Water District

Operating Indicators by Function

Water and Sewer Service Connections

For the Past Ten Fiscal Years

Fiscal Year	Water	Sewer & Recycled Water	Total Service Connections	Average Employee Population ⁽¹⁾	Service Connections per Employee
2012	99,465	93,828	193,293	319	606
2013	101,108	95,488	196,596	316	622
2014	103,077	97,482	200,559	324	619
2015	104,678	99,084	203,762	350	582
2016	107,402	101,865	209,267	370	566
2017	110,520	105,053	215,573	366	589
2018	114,164	108,754	222,918	367	607
2019	116,539	111,210	227,749	403	565
2020	118,263	113,176	231,439	392	590
2021	120,437	115,382	235,819	405	582



Source: Irvine Ranch Water District

Note:

⁽¹⁾ Includes permanent, temporary and interns.

Irvine Ranch Water District
Operating Indicators by Function
New Service Connections
For the Past Ten Fiscal Years

	Fiscal Year									
	2012	2013	2014	2015	2016⁽¹⁾	2017	2018	2019	2020	2021
Water										
Residential	862	1,520	1,848	1,727	2,513	2,928	3,355	2,314	1,783	2,077
Commercial/Industrial/ Public Authority	18	27	40	(126)	82	88	133	27	16	27
Fire Protection	37	55	50	29	107	83	99	68	21	57
Construction & Temporary	3	31	36	4	3	14	43	(23)	(28)	(5)
Landscape Irrigation	(89)	8	(4)	(30)	19	5	13	(11)	(65)	21
Agricultural	(3)	2	(1)	(3)	-	-	1	-	(3)	(3)
Total Water	828	1,643	1,969	1,601	2,724	3,118	3,644	2,375	1,724	2,174
Sewer										
Residential	861	1,521	1,829	1,727	2,501	2,894	3,340	2,314	1,781	2,059
Commercial/Industrial/ Public Authority	21	29	41	(232)	88	84	137	45	21	46
Construction & Temporary	-	-	-	-	-	-	-	-	1	-
Landscape Irrigation	102	112	127	113	-	-	-	-	-	-
Agricultural	7	(2)	(3)	(6)	-	-	-	-	-	-
Total Sewer	991	1,660	1,994	1,602	2,589	2,978	3,477	2,359	1,803	2,105
Recycled Water										
Residential	-	-	-	-	6	33	14	1	9	15
Commercial/Industrial/ Public Authority	-	-	-	-	8	9	14	12	6	11
Construction & Temporary	-	-	-	-	13	8	(5)	(1)	(9)	(7)
Landscape Irrigation	-	-	-	-	162	161	199	85	155	86
Agricultural	-	-	-	-	3	(1)	2	-	2	(4)
Total Recycled Water	-	-	-	-	192	210	224	97	163	101
Total	1,819	3,303	3,963	3,203	5,505	6,306	7,345	4,831	3,690	4,380

Source: Irvine Ranch Water District

Note:

⁽¹⁾ New connection data for Recycled Water connections was not available prior to the fiscal year 2016.

Irvine Ranch Water District

Operating Indicators by Function
Average Monthly Usage (in CCF)
For the Past Ten Fiscal Years

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Water										
Residential	9	9	9	12	11	11	12	11	11	12
Commercial	61	63	66	57	60	57	61	59	51	53
Industrial	201	204	192	267	222	232	213	212	201	211
Public Authority	296	306	305	378	287	260	260	242	164	134
Construction & Temporary	106	181	241	398	285	148	172	75	70	97
Treated - Landscape Irrigation	94	105	182	110	74	82	95	82	76	100
Treated - Agricultural	835	733	575	646	327	402	403	255	283	387
Untreated - Agricultural	4,768	5,799	6,314	8,504	8,047	6,315	6,274	4,700	2,953	445
Total	6,370	7,400	7,884	10,372	9,313	7,507	7,490	5,636	3,809	1,439
Recycled water										
Landscape Irrigation	152	169	182	192	186	170	195	145	128	168
Agricultural	3,768	4,145	3,882	4,992	3,891	3,197	3,292	2,438	2,797	4,414
Total	3,920	4,314	4,064	5,184	4,077	3,367	3,487	2,583	2,925	4,582

Source: Irvine Ranch Water District

Irvine Ranch Water District
Source of Supply and Water Deliveries / Sales in Acre Feet
For the Past Ten Fiscal Years

Source of Supply

(in Acre Feet)

Fiscal Year	Groudwater	Runoff Capture (Irvine Lake)	Imported Water	Recycled Water	Total Supply
2012	35,257	4,152	26,155	20,602	86,166
2013	47,211	2,756	20,151	22,983	93,101
2014	55,015	-	22,508	21,038	98,561
2015	47,905	6,152	18,628	22,866	95,551
2016	46,901	25	11,853	23,206	81,985
2017	49,208	1,937	19,397	22,006	92,549
2018	48,109	6,109	15,436	25,255	94,909
2019	47,258	4,151	13,937	22,381	87,727
2020	47,810	6,524	13,002	24,627	91,963
2021	47,170	4,508	17,132	26,413	95,223

Water Deliveries / Sales

(in Acre Feet)

Fiscal Year	Potable and Untreated	Recycled Water ⁽¹⁾	Total Demand
2012	54,818	25,011	79,829
2013	57,203	28,259	85,462 ⁽²⁾
2014	59,907	30,021	89,928 ⁽²⁾
2015	58,319	32,139	90,458 ⁽²⁾
2016	51,098	26,879	77,977 ⁽³⁾
2017	51,299	27,860	79,159
2018	55,138	31,642	86,780
2019	51,651	27,689	79,340 ⁽⁴⁾
2020	51,761	31,119	82,880
2021	54,506	32,595	87,101

Source: Irvine Ranch Water District

Notes:

- ⁽¹⁾ The additional demands are met with runoff capture and imported water.
- ⁽²⁾ Extremely dry conditions led to a considerable increase in demands.
- ⁽³⁾ State mandated reduction in usage resulted in a significant decrease in overall demand.
- ⁽⁴⁾ Significant rainfall resulted in a decrease in overall demand.

Irvine Ranch Water District
Capital Asset Statistics
For the Past Ten Fiscal Years

	Fiscal Year									
	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Potable System										
Miles of Water Line ⁽¹⁾	1,490	1,516	1,597	1,622	1,760	1,810	1,905	1,919	1,955	1,976
Number of Storage Tanks ⁽²⁾	37	36	36	36	36	36	36	36	37	37
Maximum Storage Capacity (Acre Feet)	456	456	456	456	456	456	456	456	467	467
Number of Pumping Stations	43	37	38	39	39	39	39	39	39	39
Number of Wells	24	26	26	27	27	27	27	27	27	27
Well Production Capacity (cfs)	117	124	124	128	128	118	118	118	118	118
Water Banking Storage (Acre Feet)	109,600	109,600	109,600	109,600	126,000	126,000	126,000	126,000	126,000	126,000
Potable Treatment Plants	3	4	4	4	4	5	5	5	5	5
Non-Potable and Recycled Systems										
Miles of Recycled Line ⁽¹⁾	478	488	503	509	525	540	555	565	570	572
Number of Storage Tanks	11	12	12	12	12	11	12	12	12	12
Number of Open Reservoirs	4	5	5	5	5	5	5	5	5	5
Maximum Storage Capacity (Acre Feet) ⁽³⁾	23,703	24,155	24,155	24,155	24,155	24,155	24,155	24,155	24,155	24,155
Number of Pumping Stations	19	20	19	20	20	20	19	19	19	19
Number of Wells ⁽⁴⁾	5	5	5	5	5	5	5	5	5	5
Well Production Capacity (cfs)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Sewer System										
Miles of Sewer Line	962	971	1,009	1,019	1,070	1,081	1,123	1,134	1,143	1,153
Number of Lift Stations ⁽⁵⁾	13	13	13	13	13	13	13	13	13	13
Treatment Plants	2	2	2	2	2	2	2	2	2	2
Treatment Capacity (mgd) (Tertiary)	23.5	23.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5

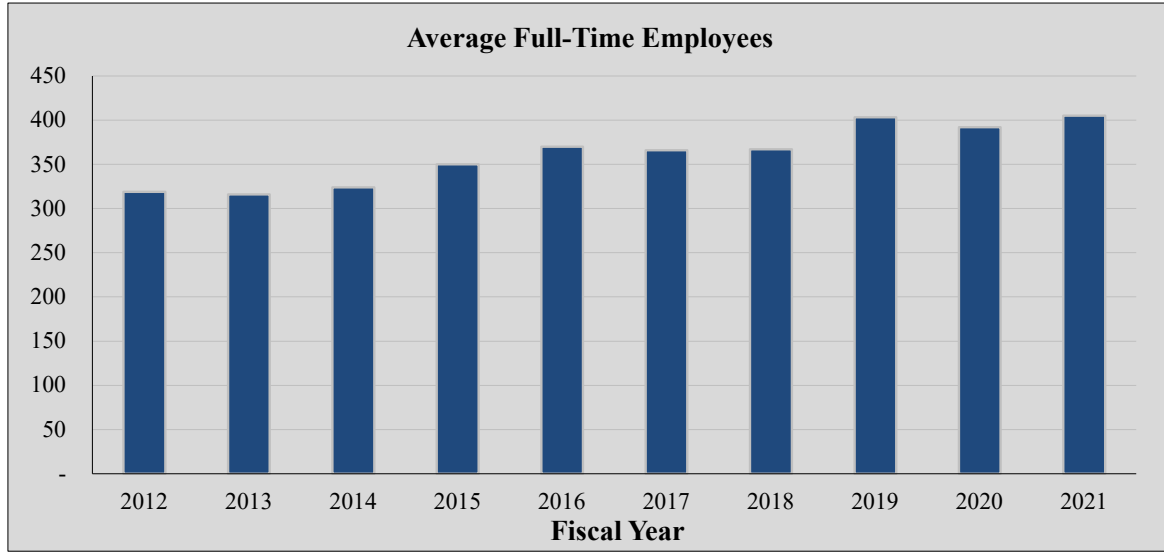
Source: Irvine Ranch Water District

Notes:

- ⁽¹⁾ Miles of Line include laterals.
- ⁽²⁾ Total number of tanks excludes IRWD's storage capacity with East Orange County Water District. However, this capacity is accounted for in the maximum storage capacity estimate (456 AF). This number also includes the two 16-MG tanks at the Baker location and the newly constructed 4.3 MG Zone 1 Tank at the existing Zone 1 tank location.
- ⁽³⁾ Excludes Serrano Water District's capacity in Irvine Lake, which equals 25% of total capacity.
- ⁽⁴⁾ Accounts for active production wells only (Excludes SGU Injection Well).
- ⁽⁵⁾ Excludes lift stations serving individual IRWD facilities.

Irvine Ranch Water District
 Full-Time Employees
 For the Past Ten Fiscal Years

	Fiscal Year									
	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Average Full-Time Employees ⁽¹⁾	319	316	324	350	370	366	367	403	392	405



Source: Irvine Ranch Water District

Note:

⁽¹⁾ Includes permanent, temporary and interns.

Exhibit "B"



Davis Farr LLP
18201 Von Karman Avenue | Suite 1100 | Irvine, CA 92612
Main: 949.474.2020 | Fax: 949.263.5520

REQUIRED AUDIT COMMUNICATIONS

Board of Directors
Irvine Ranch Water District
Irvine, California

We have audited the financial statements of Irvine Ranch Water District (the "District") for the year ended June 30, 2021. Professional standards require that we provide you with information about our responsibilities under generally accepted auditing standards and *Government Auditing Standards*, as well as certain information related to the planned scope and timing of our audit. We have communicated such information in our letter to you dated May 17, 2021. Professional standards also require that we communicate to you the following information related to our audit.

Significant Audit Findings Qualitative Aspects of Accounting Practices

Management is responsible for the selection and use of appropriate accounting policies. The significant accounting policies used by Irvine Ranch Water District are described in Note 1 to the financial statements. No new accounting policies were adopted, and the application of existing policies was not changed during the fiscal year ended June 30, 2020. We noted no transactions entered into by Irvine Ranch Water District during the year for which there is a lack of authoritative guidance or consensus. All significant transactions have been recognized in the financial statements in the proper period.

Accounting estimates are an integral part of the financial statements prepared by management and are based on management's knowledge and experience about past and current events and assumptions about future events. Certain accounting estimates are particularly sensitive because of their significance to the financial statements and because of the possibility that future events affecting them may differ significantly from those expected.

Examples of significant judgments and estimates reflected in the District's financial statements include:

- Judgments concerning which capital project expenditures should be capitalized and depreciated versus expensed in the financial statements and judgments concerning which projects should be placed in service.
- Judgements regarding the fair value of real estate investments.
- Judgments regarding the fair value of interest rate swap agreements.
- Judgements involving the estimated net pension liability
- Judgements involving the estimated OPEB liability

Difficulties Encountered in Performing the Audit

We encountered no significant difficulties in dealing with management in performing and completing our audit.

Corrected and Uncorrected Misstatements

Professional standards require us to accumulate all known and likely misstatements identified during the audit, other than those that are clearly trivial, and communicate them to the appropriate level of management. Management has corrected all such misstatements. In addition, none of the misstatements detected as a result of audit procedures and corrected by management were material, either individually or in the aggregate, to each opinion unit's financial statements taken as a whole.

There was one uncorrected misstatement detected during the audit process to record unbilled customer accounts receivable for service that occurred in June and subsequently billed after the end of the fiscal year.

Disagreements with Management

For purposes of this letter, a disagreement with management is a financial accounting, reporting, or auditing matter, whether or not resolved to our satisfaction, that could be significant to the financial statements or the auditor's report. We are pleased to report that no such disagreements arose during the course of our audit.

Management Representations

We have requested certain representations from management that are included in the management representation letter dated December 1, 2021.

Management Consultations with Other Independent Accountants

In some cases, management may decide to consult with other accountants about auditing and accounting matters, similar to obtaining a "second opinion" on certain situations. If a consultation involves application of an accounting principle to Irvine Ranch Water District's financial statements or a determination of the type of auditor's opinion that may be expressed on those statements, our professional standards require the consulting accountant to check with us to determine that the consultant has all the relevant facts. To our knowledge, there were no such consultations with other accountants.

Other Audit Findings or Issues

We generally discuss a variety of matters, including the application of accounting principles and auditing standards, with management each year prior to retention as Irvine Ranch Water District's auditors. However, these discussions occurred in the normal course of our professional relationship and our responses were not a condition to our retention.

Other Matters

We applied certain limited procedures to *Management's Discussion and Analysis, Schedule of Changes in the Net Pension Liability and Related Ratio, Schedule of Contributions – Defined Benefit Pension Plan, Schedule of Changes in the OPEB Liability and Related Ratio, Schedule of Contributions – OPEB*, which are required supplementary information (RSI) that supplements the basic financial statements. Our procedures consisted of inquiries of management regarding the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We did not audit the RSI and do not express an opinion or provide any assurance on the RSI.

We were not engaged to report on the Introduction and Statistical Section, which accompany the financial statements but are not RSI. We did not audit or perform other procedures on this other information and we do not express an opinion or provide any assurance on it.

Restriction on Use

This information is intended solely for the use of Board of Directors and management of Irvine Ranch Water District and is not intended to be, and should not be, used by anyone other than these specified parties.

Davis Farr LLP

Irvine, California
December 1, 2021

Note: This page is intentionally left blank.

Exhibit "C"



Davis Farr LLP
18201 Von Karman Avenue | Suite 1100 | Irvine, CA 92612
Main: 949.474.2020 | Fax: 949.263.5520

Report on Internal Control Over Financial Reporting and on Compliance and Other Matters Based on an Audit of Financial Statements Performed in Accordance With *Government Auditing Standards*

Independent Auditor's Report

Finance Personnel Committee
Irvine Ranch Water District
Irvine, California

We have audited, in accordance with the auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States the financial statements of Irvine Ranch Water District (the "District") as of and for the year ended June 30, 201, and the related notes to the financial statements, which collectively comprise the District's basic financial statements, and have issued our report thereon dated December 1, 2021.

Internal Control over Financial Reporting

In planning and performing our audit of the financial statements, we considered the District's internal control over financial reporting (internal control) to determine the audit procedures that are appropriate in the circumstances for the purpose of expressing our opinions on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the District's internal control. Accordingly, we do not express an opinion on the effectiveness of the District's internal control.

A deficiency in internal control exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, misstatements on a timely basis. A *material weakness* is a deficiency, or a combination of deficiencies, in internal control, such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented, or detected and corrected on a timely basis. A *significant deficiency* is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses. However, material weaknesses may exist that have not been identified.

Compliance and Other Matters


As part of obtaining reasonable assurance about whether the District's financial statements are free from material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements, noncompliance with which could have a direct and material effect on the determination of financial statement amounts. However, providing an opinion on compliance with those provisions was not an objective of our audit, and accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under *Government Auditing Standards*.

Purpose of this Report

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the entity's internal control or on compliance. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the entity's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.

Davis Farr LLP

Irvine, California
December 1, 2021

December 13, 2021
Prepared and
Submitted by: K. Swan
Approved by: Paul A. Cook 

ACTION CALENDAR

ANNUAL BOARD OF DIRECTORS' FEES

SUMMARY:

The Finance and Personnel Committee annually reviews the Board of Directors' compensation and recommends to the Board to either accept, decline, or defer a fee increase for the new calendar year. Pursuant to the District's Ordinance No. 1989-1 and enacted under Section 20202 et seq. of the California Water Code, the Board's meeting compensation increases on January 1 of each year, not exceed an amount equal to five (5%) percent, and no compensation for more than 10 days in a calendar month.

BACKGROUND:

The most recent Board of Directors' compensation increase was effective in January 2020. The current compensation for the Board of Directors is \$300 per meeting, not to exceed 10 meetings per calendar month. In accordance with Section 20202 et seq. of the California Water Code, the Board's meeting compensation increases on January 1 of each year by five (5%) percent, subject to acceptance or rejection by the Board. If the Board approves a 5% increase, the resulting per meeting fee will be \$315 (rounded to the nearest dollar).

Provided as Exhibit "A" is a survey of the Director Fees of other water districts for comparative purposes containing service connections and combined operating and capital budgets.

FISCAL IMPACTS:

A 5% increase has a nominal impact on the operating budget if accepted by the Board.

ENVIRONMENTAL COMPLIANCE:

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

COMMITTEE STATUS:

This item was reviewed by the Finance and Personnel Committee on December 7, 2021.

RECOMMENDATION:

THAT THE BOARD EITHER ACCEPT, DECLINE, OR DEFER THE FIVE (5%) PERCENT COMPENSATION INCREASE FOR CALENDAR YEAR 2022.

LIST OF EXHIBITS:

Exhibit "A" – Survey of Director Fees

Note: This page is intentionally left blank.

EXHIBIT "A"
 BOARD OF DIRECTORS PER DIEM SURVEY
 (as of November 30, 2021)

Agency	Service Connections	Combined Operating & Capital Budgets	Per Diem Rate <i>(10 meetings per month, unless noted otherwise)</i>
Contra Costa Water Agency	62,000	\$188.2 million	\$100
East Bay Municipal District	401,482	\$1.1 billion	Monthly salary of \$1,367
Eastern Municipal Water District	159,143	\$440.8 million	\$223
Elsinore Valley Municipal Water District	83,150	\$194.3 million	\$221.43 (4 Directors) \$232.50 (1 Director)
Inland Empire Utilities Agency	--	\$431 million	\$260
Irvine Ranch Water District	235,000	\$296.9 million	\$300
Moulton Niguel Water District	55,135	\$205.3 million	\$254.65
Municipal Water District of Orange County	642,864	\$184.9 million	\$327.43
Orange County Water District	403	\$366.6 million	\$315
Rancho California Water District	53,990	\$197 million	\$200
San Diego County Water Authority	--	\$1.7 billion <i>Two-year Budget</i>	\$150 Board \$180 Officers
Santa Clara Valley Water District	--	\$838 million	\$331.86 <i>15 days per month</i>
Santa Margarita Water District	57,633	\$78.2 million	\$270
South Coast Water District	31,638	\$82.9 million	\$255.00
West Basin Municipal Water District	515	\$283.4 million	\$270.70 <i>Monthly: \$463.50 auto + \$387.03 communications</i>
Western Municipal Water District	24,519	\$165.1 million	\$240.67

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December 13, 2021
Prepared and
submitted by: L. Bonkowski
Approved by: Paul A. Cook

P.A.C.

ACTION CALENDAR

ELECTION OF OFFICERS FOR 2022

SUMMARY:

The Bylaws of the District provide that the President and Vice President shall be elected by the Board from among its members. The term of office of the President and Vice President is one year, or until the election and qualification of their successors. On December 14, 2020, Director Reinhart was elected to the office of President and Director Withers was elected to the office of Vice President for 2021.

While there are no formal election procedures set forth in the Bylaws, it is suggested that the General Manager be appointed temporary Chairman to conduct the election of President. The temporary Chairman would open nominations, accept nominations which need not be seconded, accept a motion to close the nominations, and conduct the balloting by voice vote. The President would then conduct the election of the Vice President in a similar manner.

FISCAL IMPACTS:

None.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

Not applicable.

RECOMMENDATION:

THAT AN ELECTION BE CONDUCTED OF THE PRESIDENT AND VICE PRESIDENT OF THE BOARD OF DIRECTORS OF THE IRVINE RANCH WATER DISTRICT FOR 2022.

LIST OF EXHIBITS:

None.

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