

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

April 24, 2023

**CALL TO ORDER** 5:00 p.m.

**PLEDGE OF ALLEGIANCE**

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

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=m84f553be12349095a46b3210ab8c2cf5>

Meeting Number (Access Code): 2482 350 3397

Meeting Password: VuQtTnEb333 (88788632 from video systems)

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 request to speak, or 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](mailto:comments@irwd.com) before 12:00 p.m. on Monday, April 24, 2023.

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**COMMUNICATIONS TO THE BOARD**

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

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

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**WORKSHOP**

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|--|-------------------------|
| <p>4. <u>FISCAL YEARS 2023-24 AND 2024-25 PROPOSED OPERATING BUDGETS AND RECOMMENDED RATES AND CHARGES</u></p> <p>Recommendation: That the Board adopt a resolution approving the Operating Budgets for Fiscal Years 2023-24 and 2024-25 (with rates and charges to be adopted on June 26, 2023) and approve the Proposition 218 notices subject to non-substantive modifications.</p> | <p>Reso. No. 2023-5</p> |
| <p>5. <u>CAPITAL BUDGET AND LONG-TERM CAPITAL PROGRAM FOR FISCAL YEARS 2023-24 AND 2024-25</u></p> <p>Recommendation: That the Board adopt a resolution approving the Capital Budget for Fiscal Years 2023-24 and 2024-25.</p>   | <p>Reso. No. 2023-6</p> |

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**CONSENT CALENDAR, Items 6 through 12**

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|--|--|
| <p>6. <u>BOARD MEETING MINUTES</u></p> <p>Recommendation: That the minutes of the April 10, 2023 Regular Board Meeting be approved as presented.</p>   |  |
| <p>7. <u>MARCH 2023 TREASURY REPORT</u></p> <p>Recommendation: That the Board receive and file the Treasurer's Investment Summary report, the summary of fixed and variable rate debt, and the disclosure report of reimbursements to Board members and staff, approve the March 2023 summary of payroll ACH payments in the total amount of \$2,376,574, and approve the March 2023 accounts payable disbursement summary of warrants 434259 through 435046, Workers' Compensation distributions, ACH payments, virtual card payments, wire transfers, payroll withholding distributions and voided checks in the total amount of \$21,164,204.</p> |  |
| <p>8. <u>APPOINTMENT OF TREASURER AND ASSISTANT TREASURER</u></p> <p>Recommendation: That the Board appoint Kent Morris as The Irvine Ranch Water District Treasurer and appoint Cheryl Clary as Assistant Treasurer effective April 24, 2023.</p>   |  |
| <p>9. <u>FISCAL YEAR 2022-23 IRWD GUIDING PRINCIPLES SCORECARD</u></p> <p>Recommendation: Receive and file.</p>  |  |

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**CONSENT CALENDAR, Items 6 through 12 (continued)**

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10. OTHER POST-EMPLOYMENT BENEFITS TRUST AGREEMENT

Reso. No. 2023-7

Recommendation: That the Board adopt a resolution approving Declaration of Trust for the Irvine Ranch Water District OPEB Section 115 Trust.

11. REHABILITATION OF WELL OPA-1 BUDGET ADDITION AND CHANGE ORDER

Recommendation: That the Board authorize the addition of Project 12594, Rehabilitation of Well OPA-1, to the FY 2022-23 Capital Budget in the amount of \$557,500 and authorize the General Manager to accept Orange County Water District's construction contract change order with Innovative Construction Solutions in the amount of \$387,476.40.12.

12. RESOLUTION REGARDING APPLICATION FOR GRANT FUNDING FOR THE ORANGE PARK ACRES WELL 1 PFAS TREATMENT PROJECT

Reso. No. 2023-8

Recommendation: Staff recommends that the Board adopt a resolution authorizing the General Manager to apply for grant funding for the planning, design, and construction of the OPA Well 1 PFAS Treatment Project and authorize the General Manager to execute an amendment to the existing PFAS Treatment Agreement that will facilitate coordinated grant administration and the transfer of the grant funding to OCWD.

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**ACTION CALENDAR**

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13. RATTLESNAKE DAM GEOTECHNICAL INVESTIGATION AND STABILITY ANALYSIS CONSULTANT SELECTIONS AND BUDGET ADDITION

Recommendation: That the Board authorize a budget increase for Project 12101, Rattlesnake Dam Geotechnical Investigation and Stability Analysis, to the FY 2022-23 Capital Budget in the amount of \$2,331,000, authorize the General Manager to execute a Professional Services Agreement with AECOM in the amount of \$741,115 for geotechnical investigation services, and authorize the General Manager to execute a Professional Services Agreement with HDR Engineering, Inc. in the amount of \$624,865 for engineering services.

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**OTHER BUSINESS**

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

14. General Manager's Report
15. Receive oral update(s) from District liaison(s) regarding communities within IRWD's service area and provide information on relevant community events.
16. Directors' Comments
17. Closed Sessions
  - A. 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.
  - B. CONFERENCE WITH LEGAL COUNSEL – ANTICIPATED LITIGATION (Gov. Code § 54956.9(d)(2)) *Significant exposure to litigation*: One case, David Hillman giddyap@att.net
  - C. CONFERENCE WITH REAL PROPERTY NEGOTIATORS (Gov. Code § 54956.8).  
*Property*: A portion of East Amapola Road in the unincorporated territory of the County of Orange, State of California, identified as Lot B of Tract No. 931 in Book 29, Page 26 of Miscellaneous Maps, Records of Orange County, California  
*Agency negotiators*: Kevin Burton, Eric Akiyoshi, Claire Collins  
*Negotiating parties*: Nitesh Patel  
*Under negotiation*: Price and terms
18. Open Session
19. Adjournment


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Availability of agenda materials: Agenda exhibits and other writings that are disclosable public records distributed to all or a majority of the members of the 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.



April 24, 2023

Prepared by: V. Li / D. Pardee / C. Smithson

Submitted by: C. Clary

Approved by: Paul A. Cook 

## BOARD WORKSHOP

### FISCAL YEARS 2023-24 AND 2024-25 PROPOSED OPERATING BUDGETS AND RECOMMENDED RATES AND CHARGES

#### SUMMARY:

The proposed Fiscal Year (FY) 2023-24 net Operating Budget is \$220.7 million, representing an increase of \$32.9 million or 17.5% over the prior year. The proposed FY 2024-25 net Operating Budget is \$234.5 million, representing an increase of \$13.8 million or 6.3% over FY 2023-24. The proposed Operating Budgets are attached as Exhibit “A”.

IRWD’s customer rates are developed using methodology consistent with the 2021 Cost of Service Study. The commodity rate-setting methodology continues to utilize four tiers beginning with a low volume tier, a base rate, and two over-allocation tiers. For the average residential customer in FY 2023-24, the proposed rate changes include a low volume increase of \$0.22 per hundred cubic feet (ccf), a base commodity rate increase of \$0.10 per ccf, a \$1.10 rate increase to the monthly charge for water service (based on a 5/8” x 3/4” meter size) and \$2.65 increase to the monthly charge for sewer service (based on estimated indoor usage of under 5 ccf). Based on the recommendation, a typical IRWD residential customer will experience an increase of \$5.55 or 9.9%, from \$55.79 to \$61.34 per month.

For the average residential customer in FY 2024-25, the proposed rate changes include a low-volume increase of \$0.24 per ccf, a base commodity rate increase of \$0.13 per ccf, a \$1.35 rate increase to the monthly fixed charge for water service (based on a 5/8” x 3/4” meter size), and a \$2.60 increase to the monthly charge for sewer service (based on estimated indoor usage of under 5 ccf). Based on the recommendation, a typical IRWD residential customer will experience an increase of \$6.06 or 9.9%, from \$61.34 to \$67.40 per month.

Staff recommends that the Board approve the resolution and the Proposition 218 notices, subject to non-substantive changes, in order to affect the new rates that will become effective June 26, 2023 and implemented July 1, 2023 and July 1, 2024 for each of the fiscal years, respectively.

#### BACKGROUND:

The proposed Operating Budgets have been organized into eight major functional areas, plus separate sections for proposed general plant and labor changes. The proposed budget for FY 2023-24 represents an increase of \$32.9 million over the FY 2022-23 Operating Budget. The proposed budget for FY 2024-25 represents an increase of \$13.8 million over the proposed FY 2023-24 Operating Budget. Quarterly reporting in FY 2023-24 and FY 2024-25 will include a review of actual versus budget results for operating and non-operating revenue and expenses.

Board Workshop: Fiscal Years 2023-24 and 2024-25 Operating Budgets, Proposed Budgets and Recommended Rates and Charges

April 24, 2023

Page 2

In addition, staff has budgeted non-operating net income, of which the primary drivers are property tax revenues, net income from real estate investments, connection fees paid by developers, investment income on the District's investments and interest expense on the District's debt. Non-operating net income is not included in the operating rates generation process because it provides funding for the capital programs and existing debt, which are not included in operating expenses. Total net income from non-operating sources are estimated to generate an additional net \$91.3 million in FY 2023-24 and \$91.4 million in FY 2024-25.

Rate increases are necessary to provide cost-of-service equity based on the proposed budgets for FY 2023-24 and FY 2024-25. Commodity and pumping surcharge rates are designed to cover requirements for operating variable costs of water, fixed water and sewer service charges cover requirements for operating fixed costs, and the costs associated with excessive water use are included in the over-allocation commodity rates. Fixed monthly water and sewer service charges include capital requirements and incorporate revenue from miscellaneous other sources to offset costs and reduce fixed service charge rates accordingly. Recycled water fixed charges are the same as potable water fixed charges.

The proposed Operating Budgets (summaries tab) included in Exhibit "A", page 15, identifies the effects of the proposed rate increases for a typical IRWD residential customer. The rate impact is an increase of 9.9% for the average residential customer in FY 2023-24 and 9.9% in FY 2024-25. The details of the tiered rate structure cost allocations based on cost of service and proposed rates were reviewed at the Board Workshop on April 10, 2023.

Attached as Exhibit "B" are the proposed Proposition 218 notices for the District. Staff recommends that the Board approve the proposed Proposition 218 notices, subject to non-substantive changes, which will be mailed to the District's customers and property owners. Staff also recommends approval of the proposed resolution approving the Operating Budgets for FY 2023-24 and FY 2024-25, attached as Exhibit "C".

Proposed Schedule for the Operating Budget and Rates Adoption:

- |                |  |
|----------------|--|
| April 24, 2023 | Second Board Workshop to adopt the Proposed Operating Budget and to approve the Proposition 218 Notices for ratepayers               |
| May 12, 2023   | Mail Proposition 218 Notices to ratepayers / customers   |
| June 23, 2023  | Tabulate Proposition 218 responses   |
| June 26, 2023  | Board Meeting – Public Hearing to review Proposition 218 responses and adopt IRWD's Rates and Charges for FY 2023-24 and FY 2024-25. |

The draft PowerPoint presentation that staff will provide at the workshop is included as Exhibit "D".

FISCAL IMPACTS:

Planned operating expenses for FY 2023-24 represent an increase of \$32.9 million over the FY 2022-23 Operating Budget. Planned operating expenses for FY 2024-25 represent an increase of \$13.8 million over the FY 2023-24 Operating Budget.

It is expected that the proposed rate increases will result in contributions to the enhancement and replacement funds of \$34.0 million in FY 2023-24 and \$37.3 million in FY 2024-25. The conservation fund is expected to generate and use approximately \$17.2 million in FY 2023-24 and \$18.3 million in FY 2024-25.

Pumping surcharge rates are added to the commodity rate for customer accounts where additional pumping costs are required to serve their properties. The revised areas and proposed rates will generate approximately \$2.3 million in FY 2023-24 and \$2.6 million in FY 2024-25 for the potable and recycled systems.

Water Shortage Contingency Plan Rates will only be implemented in the event of a water shortage declaration and upon approval by the Board of Directors. Rates that are not implemented have no fiscal impact.

The District will utilize \$7.2 million in FY 2023-24 and \$0.5 million in FY 2024-25 from the Rate Stabilization Fund to minimize the rate increase impacts to the average residential customer.

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:

The Committee previously reviewed the Budget and assumptions at its Finance and Personnel Committee meetings on March 6, 2023, March 22, 2023, and April 4, 2023. The Board also reviewed the proposed Operating Budgets and recommended changes to rates and charges at its meeting on April 10, 2023.

RECOMMENDATION:

THAT THE BOARD ADOPT THE FOLLOWING RESOLUTION BY TITLE APPROVING THE OPERATING BUDGETS FOR FISCAL YEARS 2023-24 AND 2024-25 (WITH RATES AND CHARGES TO BE ADOPTED ON JUNE 26, 2023) AND APPROVE THE PROPOSITION 218 NOTICES SUBJECT TO NON-SUBSTANTIVE MODIFICATIONS.

RESOLUTION NO. 2023 – 5

RESOLUTION OF THE BOARD OF DIRECTORS  
OF IRVINE RANCH WATER DISTRICT,  
ORANGE COUNTY, CALIFORNIA  
APPROVING THE DISTRICT’S OPERATING BUDGETS FOR  
FISCAL YEAR 2023-24 AND FISCAL YEAR 2024-25 AND DETERMINING  
COMPLIANCE WITH  
ARTICLE XIII B OF THE CALIFORNIA CONSTITUTION

LIST OF EXHIBITS:

- Exhibit “A” – Proposed Operating Budgets for Fiscal Year 2023-24 and Fiscal Year 2024-25  
Draft
- Exhibit “B” – Proposed Proposition 218 Notices
- Exhibit “C” – Operating Budgets Resolution
- Exhibit “D” – Draft PowerPoint Presentation

**Exhibit “A”**

***IRVINE RANCH WATER DISTRICT  
OPERATING BUDGET  
FISCAL YEARS 2023-24 and 2024-25***



**Irvine Ranch**  
**WATER DISTRICT**

***“PROPOSED”***

***April 24, 2023***

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# BUDGET

## *Key Assumptions* *Fiscal Years 2023-24 and 2024-25*

The goal of the District's budgeting process remains to fund the resources required to provide services to the District's customers as cost-efficiently as possible. The District aggressively pursues reductions in expenses to offset uncontrollable expenses such as pass-through rate increases from outside agencies on which the District depends for the purchase of water, electricity and the treatment of sewage. The District is in the process of developing rates based on the proposed Operating Budgets. Proposed rate increases will be necessary to provide cost of service equity.

This document is a summary of the major assumptions driving the development of the operating and non-operating budgets for FY 2023-24 and 2024-25.

### **I. OPERATING REVENUES**

#### *Growth Estimates:*

Residential development growth includes both apartments and single family homes for FY 2023-24 and 2024-25. The unit estimate is based on current projections received from major developers throughout the service area and have been adjusted to recognize changes from economic shifts. Estimates identify approximately 2,200 mixed units coming online in each year for FY 2023-24 and 2024-25. As a result, the growth factor is estimated at 2.0% for FY 2023-24 and 2024-25.

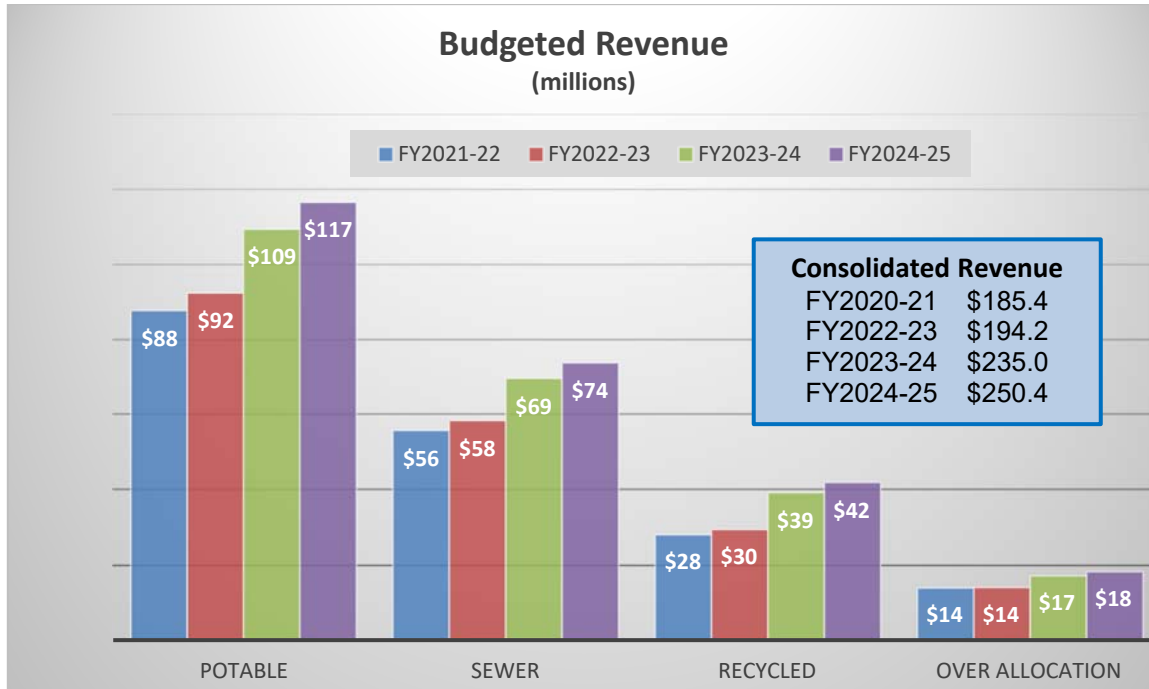
Development projections for the commercial/industrial sector identify 11 acres of development occurring in FY 2023-24 and 2024-25. Revenue assumptions used to estimate sewer revenue are consistent with the assumptions included for potable water.



# BUDGET

## Key Assumptions Fiscal Years 2023-24 and 2024-25

FY 2023-24 and 2024-25 Estimate for Operating Revenue Sources, by System (in millions):



Total Residential, Landscape, Commercial, and Industrial revenue constitute over 85% of the total operating revenues for both water and sewer.

## II. OPERATING EXPENSES

Notable expected changes in operating expenses are addressed below by system and function:

### A. Water

The District continues to make efforts in encouraging its customers to conserve. The District will continue to encourage conservation through use of a budgeted allocation. Customers continue to respond well to this messaging.

The FY 2023-24 and 2024-25 budget anticipates no significant change in use from FY 2020-21. The assumption is normal rainfall. The District is budgeting treated potable sales for FY 2023-24 and 2024-25 of 53,481 acre feet (AF) and 54,551 AF, respectively, compared to a budget of 53,294 AF and a forecast of 51,200 AF in FY 2022-23. The additional potable demand will be met with increased groundwater from the addition of the Orange Park Acres Well #1 (1,500 AF) and imported supply.

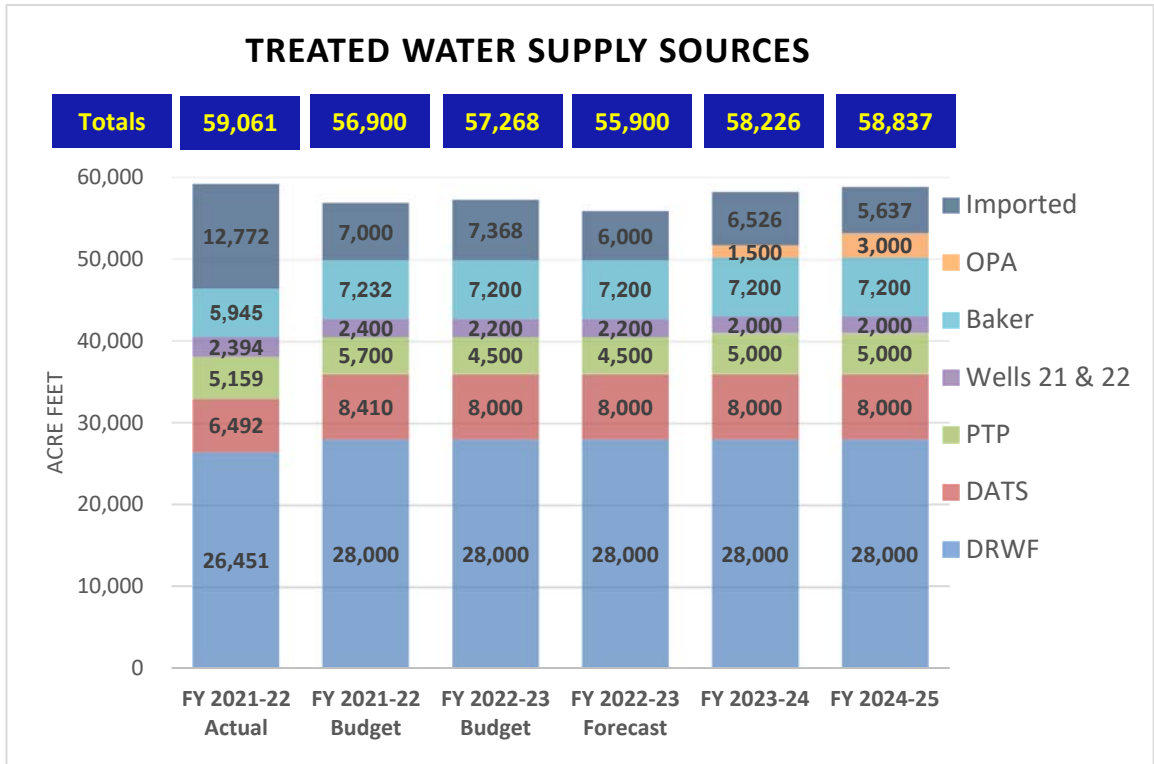




# BUDGET

## Key Assumptions Fiscal Years 2023-24 and 2024-25

The water sources, before process loss and shrinkage, used to meet potable sales are:



The cost for source of supply is one of the District's largest uncontrollable expenses. Groundwater provides over 48,000 acre feet and the District generates nearly 26,000 acre feet of recycled water with the remaining demand coming from imported supply or native water (rainfall and related runoff), as available. The table below identifies the various budgeted sources and associated costs.

| Source Cost per Acre Foot (AF)   | FY 2022-23 | FY 2023-24 | FY 2024-25 |
|--|------------|------------|------------|
| <b>Orange County Water District (OCWD) Replenishment Assessment (RA)</b> |            |            |            |
| Groundwater  | \$540      | \$624      | \$665      |
| <b>Metropolitan Water District (MWD)/MWDOC</b>                           |            |            |            |
| Imported Potable   | \$1,166    | \$1,257    | \$1,308    |
| Imported Nonpotable  | \$817      | \$906      | \$972      |
| Native Water   | \$345      | \$355      | \$366      |



# BUDGET

## *Key Assumptions Fiscal Years 2023-24 and 2024-25*

- RA will increase by 16.0% over budget (\$540) in FY 2023-24 and 6.6% in FY 2024-25. The District’s basin production percentage (BPP) allowance will increase from 70% to 85% for both fiscal years. The addition of the Orange Park Acres Well will increase groundwater production. With the increased production, the District is not expected to exceed 85%.
- Electricity rates have increased significantly over the prior year budgets. The FY 2023-24 rates were developed using 6 month actual rates which were 38.5% higher than the FY 2022-23 budget. Rate increases of 7.3% and 9.1% were applied for FY 2023-24 and FY 2024-25, respectively.
- MWD is expected to increase its treated and untreated rates on January 1, 2022 and again on January 1, 2023.
- Native water cost will increase annually by 3% based on the Irvine Lake Yield agreement.
- Staff assumes no substantial change to the costs associated with the IRWD Reservoir Management Systems.

**B. Sewer and Biosolids**

The MWRP Biosolids and Energy Recovery Facility was operational in July 2021. Costs associated with operating the facility are included in FY 2023-24 and 2024-25. The FY 2023-24 and 2024-25 budget assumes no solids handling expense for OC SAN.

**C. Salaries and Benefits**

Each year, staff prepares a labor budget based upon the total positions in the organization chart, expected merit and cost of living increases, and promotional allowances.

- Salary assumes an increase for merit and projected promotions.
- There are seven new positions budgeted in FY 2023-24 and five in FY 2024-25.
- Five positions were eliminated in FY 2023-24.
- In July of each year, a COLA and promotional factor are applied to salaries - Assumed at 6.0% and 3.5%, respectively.
- Assumes a 6% vacancy factor.
- Paid time off (vacation and sick) is included in benefits.

The following table reflects salaries and wages included in each budget.

| <b>Regular Salaries and Wages</b> |           |
|-----------------------------------|-----------|
| <b>(thousands)</b>                |           |
| FY 2022-23                        | \$36,327* |
| FY 2023-24                        | \$44,490  |
| FY 2024-25                        | \$47,653  |

\* Excludes \$1.4 million of holiday pay which was reclassified from benefits to labor in FY 2023-24.



# BUDGET

## *Key Assumptions Fiscal Years 2023-24 and 2024-25*

The following table identifies the current and proposed contribution of the District toward employee benefits. The PERS contribution is based on the Board approved policy based on the 2020 draft Cost of Service Study. The required contribution is designated by PERS. The total contribution is reduced by a proportionate share of a three year average of Pension Trust Fund investment earnings. The proportionate share is based on the PERS's unfunded pension ratio. The PERS Contribution will be used to repay the Replacement Fund borrowing which funded the Pension Benefits Trust and will be repaid over a period of twenty years. The District anticipates funding a Section 115 Trust for Other Post Employment Benefits (OPEB) with an additional \$10 million borrowing from the replacement fund. Repayment of the loan will begin in FY 2025-26 when the unfunded accrued pension liability is expected to decrease.

| <b>Additional Contributions Provided by the District</b> |                       |                       |                       |
|--|-----------------------|-----------------------|-----------------------|
|  | <b>FY<br/>2022-23</b> | <b>FY<br/>2023-24</b> | <b>FY<br/>2024-25</b> |
| Required PERS Normal Cost                                | 9.0%                  | 8.9%                  | 8.8%                  |
| PERS in Excess of ARC/UAL*                               | 22.8%                 | 19.2%                 | 19.3%                 |
| Combined Total   | 31.8%                 | 28.1%                 | 28.1%                 |
| District Direct 401A Match                               | 3.0%                  | 3.0%                  | 3.0%                  |
| 401A Matching Contribution of 3%                         | 2.8%                  | 2.8%                  | 2.8%                  |
| *ARC = Annual Required Contributions                     |                       |                       |                       |
| *UAL = Unfunded Actuarial Accrued Liability              |                       |                       |                       |

### III. USE OF OVER-ALLOCATION REVENUE

Over-allocation revenue is generated by customers in the inefficient and wasteful tiers. This revenue offsets the following expenses:

- The cost associated with additional imported water purchases;
- Customers who receive the \$2 low volume capacity rebate on the fixed service charge;
- Budgeted conservation expenses including operational expenses (customer service, fleet management, etc.);
- Urban runoff (NTS) and San Joaquin Marsh maintenance expenses;
- Capital projects that support conservation or maintain NTS facilities; and
- Water banking expenses.

### IV. NON-OPERATING REVENUES AND EXPENSES

The District's non-operating revenues are related to income generated from sources other than user rates, which include property taxes, investment income, connection fees, and real estate. A portion of the non-operating revenues pay the debt service for debt issued by the District. Property taxes and connection fees help pay for new infrastructure. Some of the non-operating revenues contribute to the replacement fund, which is used to pay for the inevitable replacement of existing infrastructure. The District sets the replacement fund monies aside in advance to avoid significant potential future rate impacts. The non-



# BUDGET

## *Key Assumptions* *Fiscal Years 2023-24 and 2024-25*

operating revenues and expenses exclude non-cash items, fair value changes, and Pension Benefit Trust.

### A. Revenues

Primary assumptions for FY 2023-24 and 2024-25 for each of the revenue categories are as follows:

- Property taxes – 4.0% and 4.0% growth, respectively, in projected assessed values.
- Investment income – 3.6% and 3.9% average interest rate and an average cash balance of \$314.1 million and \$222.2 million, respectively.
- Connection fees – Based on current projections received from major developers.
- Real estate income – 8.0% and 3.0% growth on commercial and residential income, respectively. FY 2023-24 includes a full year of income from the Sand Canyon Professional Center building.
- Other income – includes lease revenue and other miscellaneous revenue.

### B. Expenses

Primary assumptions for FY 2023-24 and 2024-25 are as follows:

- Interest expense – 3.7% average fixed debt rate for each fiscal year. 3.1% and 3.4% average variable debt rate, respectively; and
- Real estate expense – 4.5% and 3.0% growth, respectively, excluding depreciation as real estate is based on fair market value.

**Irvine Ranch Water District**  
**Consolidated Operating Budget Variances**  
**Proposed Budget for FY 2023-24**

(in thousands)

| Expense Name                          | Actual            |                          | Forecast          | Budget            |                   | Budget Variances            |               |
|---------------------------------------|-------------------|--------------------------|-------------------|-------------------|-------------------|-----------------------------|---------------|
|                                       |                   |                          |                   | Approved          | Proposed          | Increase (Decrease)         |               |
|                                       | FY 2021-22        | (6 months)<br>FY 2022-23 | FY 2022-23        | FY 2022-23        | FY 2023-24        | FY 2022-23 vs<br>FY 2023-24 | %<br>Variance |
| <b>Salaries &amp; Benefits</b>        |                   |                          |                   |                   |                   |                             |               |
| Regular Labor                         | \$ 35,759         | \$ 18,478                | \$ 38,000         | \$ 36,327         | \$ 44,490         | \$ 8,163                    | 22.5%         |
| Overtime Labor                        | 2,903             | 1,630                    | 3,200             | 2,500             | 3,572             | 1,071                       | 42.9%         |
| Contract Labor                        | 959               | 625                      | 1,380             | 1,380             | 1,572             | 192                         | 13.9%         |
| Employee Benefits                     | 29,095            | 15,353                   | 31,981            | 31,981            | 30,753            | (1,228)                     | (3.8%)        |
| <b>Salaries &amp; Benefits Total</b>  | <b>\$ 68,715</b>  | <b>\$ 36,087</b>         | <b>\$ 74,561</b>  | <b>\$ 72,188</b>  | <b>\$ 80,388</b>  | <b>\$ 8,199</b>             | <b>11.4%</b>  |
| <b>Water &amp; Utilities</b>          |                   |                          |                   |                   |                   |                             |               |
| Water                                 | 54,203            | 25,634                   | 45,491            | 45,491            | 52,983            | 7,492                       | 16.5%         |
| Electricity                           | 22,377            | 13,004                   | 26,000            | 20,393            | 28,386            | 7,993                       | 39.2%         |
| Fuel                                  | 1,059             | 594                      | 1,141             | 1,141             | 1,445             | 304                         | 26.6%         |
| Telecommunication                     | 840               | 373                      | 860               | 860               | 929               | 69                          | 8.0%          |
| Other Utilities                       | 232               | 136                      | 227               | 227               | 330               | 102                         | 45.1%         |
| <b>Water &amp; Utilities Total</b>    | <b>\$ 78,711</b>  | <b>\$ 39,741</b>         | <b>\$ 73,719</b>  | <b>\$ 68,113</b>  | <b>\$ 84,073</b>  | <b>\$ 15,960</b>            | <b>23.4%</b>  |
| <b>Materials &amp; Supplies</b>       |                   |                          |                   |                   |                   |                             |               |
| Chemicals                             | 4,468             | 3,035                    | 6,000             | 4,520             | 8,208             | 3,688                       | 81.6%         |
| Operating Supplies                    | 3,233             | 1,433                    | 2,778             | 2,778             | 3,110             | 331                         | 11.9%         |
| Printing                              | 388               | 144                      | 347               | 347               | 370               | 23                          | 6.7%          |
| Postage                               | 425               | 234                      | 496               | 496               | 491               | (5)                         | (1.0%)        |
| Permits, Licenses and Fees            | 1,968             | 1,303                    | 2,027             | 2,027             | 2,200             | 173                         | 8.5%          |
| Office Supplies                       | 75                | 37                       | 96                | 96                | 103               | 7                           | 7.5%          |
| Duplicating Equipment                 | 110               | 57                       | 153               | 153               | 128               | (25)                        | (16.3%)       |
| Equipment Rental                      | 81                | 28                       | 76                | 76                | 92                | 16                          | 21.1%         |
| <b>Materials &amp; Supplies Total</b> | <b>\$ 10,749</b>  | <b>\$ 6,272</b>          | <b>\$ 11,973</b>  | <b>\$ 10,493</b>  | <b>\$ 14,701</b>  | <b>\$ 4,208</b>             | <b>40.1%</b>  |
| <b>Professional Services</b>          |                   |                          |                   |                   |                   |                             |               |
| Rep & Maint OCSAN & Others            | 6,013             | 2,722                    | 5,417             | 5,417             | 5,361             | (56)                        | (1.0%)        |
| Rep & Maint IRWD                      | 14,145            | 6,682                    | 13,668            | 13,668            | 15,606            | 1,938                       | 14.2%         |
| Insurance                             | 2,239             | 1,193                    | 2,768             | 2,768             | 3,252             | 483                         | 17.5%         |
| Legal Fees                            | 1,877             | 892                      | 3,247             | 3,247             | 3,163             | (84)                        | (2.6%)        |
| Engineering Fees                      | 630               | 645                      | 1,094             | 1,094             | 1,051             | (44)                        | (4.0%)        |
| Accounting Fees                       | 100               | 37                       | 100               | 100               | 106               | 6                           | 6.0%          |
| Data Processing                       | 4,072             | 2,607                    | 4,079             | 4,079             | 4,331             | 252                         | 6.2%          |
| Personnel Training                    | 1,188             | 704                      | 1,551             | 1,551             | 1,804             | 253                         | 16.3%         |
| Personnel Physicals                   | 176               | 7                        | 27                | 27                | 44                | 17                          | 62.6%         |
| Other Professional Fees               | 4,352             | 2,074                    | 4,700             | 5,385             | 7,061             | 1,676                       | 31.1%         |
| Directors' Fees                       | 171               | 83                       | 202               | 202               | 190               | (12)                        | (5.9%)        |
| <b>Professional Services Total</b>    | <b>\$ 34,964</b>  | <b>\$ 17,646</b>         | <b>\$ 36,853</b>  | <b>\$ 37,539</b>  | <b>\$ 41,968</b>  | <b>\$ 4,429</b>             | <b>11.8%</b>  |
| <b>Other</b>                          |                   |                          |                   |                   |                   |                             |               |
| Election Expense                      | 160               | 83                       | 165               | 165               | 60                | (105)                       | (63.6%)       |
| Safety                                | 110               | 43                       | 120               | 120               | 112               | (8)                         | (6.6%)        |
| Alarm and Patrol Services             | 817               | 416                      | 860               | 860               | 1,039             | 179                         | 20.8%         |
| Biosolids Disposals                   | 1,494             | 769                      | 1,200             | 356               | 1,054             | 698                         | 196.4%        |
| Contract Meter Reading                | 1,495             | 797                      | 1,575             | 1,575             | 1,630             | 55                          | 3.5%          |
| Over-Allocation                       | 513               | (73)                     | 695               | 695               | 1,040             | 345                         | 49.7%         |
| All Other                             | 962               | 249                      | 502               | 502               | 559               | 57                          | 11.3%         |
| <b>Other Total</b>                    | <b>\$ 5,553</b>   | <b>\$ 2,284</b>          | <b>\$ 5,117</b>   | <b>\$ 4,273</b>   | <b>\$ 5,495</b>   | <b>\$ 1,221</b>             | <b>28.6%</b>  |
| <b>Total</b>                          | <b>\$ 198,693</b> | <b>\$ 102,031</b>        | <b>\$ 202,225</b> | <b>\$ 192,606</b> | <b>\$ 226,624</b> | <b>\$ 34,017</b>            | <b>17.7%</b>  |
| Less: Reimbursements from Partners    | (4,237)           | (2,909)                  | (4,859)           | (4,859)           | (5,956)           | (1,097)                     | 22.6%         |
| <b>Grand Total</b>                    | <b>\$ 194,456</b> | <b>\$ 99,121</b>         | <b>\$ 197,365</b> | <b>\$ 187,747</b> | <b>\$ 220,668</b> | <b>\$ 32,921</b>            | <b>17.5%</b>  |

**Irvine Ranch Water District**  
**Consolidated Operating Budget Variances**  
**Proposed Budget for FY 2024-25**

(in thousands)

| Expense Name                          | Forecast          |                   | Budget            |                          | Budget Variances    |  |
|---------------------------------------|-------------------|-------------------|-------------------|--------------------------|---------------------|--|
|                                       |                   |                   | Proposed          | Proposed                 | Increase (Decrease) |  |
|                                       | FY 2022-23        | FY 2023-24        | FY 2024-25        | FY 2023-24 vs FY 2024-25 | % Variance          |  |
| <b>Salaries &amp; Benefits</b>        |                   |                   |                   |                          |                     |  |
| Regular Labor                         | \$ 38,000         | \$ 44,490         | \$ 47,653         | \$ 3,163                 | 7.1%                |  |
| Overtime Labor                        | 3,200             | 3,572             | 3,698             | 126                      | 3.5%                |  |
| Contract Labor                        | 1,380             | 1,572             | 1,528             | (44)                     | (2.8%)              |  |
| Employee Benefits                     | 31,981            | 30,753            | 32,954            | 2,201                    | 7.2%                |  |
| <b>Salaries &amp; Benefits Total</b>  | <b>\$ 74,561</b>  | <b>\$ 80,388</b>  | <b>\$ 85,833</b>  | <b>\$ 5,445</b>          | <b>6.8%</b>         |  |
| <b>Water &amp; Utilities</b>          |                   |                   |                   |                          |                     |  |
| Water                                 | 45,491            | 52,983            | 56,452            | 3,469                    | 6.5%                |  |
| Electricity                           | 26,000            | 28,386            | 30,823            | 2,437                    | 8.6%                |  |
| Fuel                                  | 1,141             | 1,445             | 1,488             | 43                       | 3.0%                |  |
| Telecommunication                     | 860               | 929               | 943               | 14                       | 1.5%                |  |
| Other Utilities                       | 227               | 330               | 335               | 6                        | 1.7%                |  |
| <b>Water &amp; Utilities Total</b>    | <b>\$ 73,719</b>  | <b>\$ 84,073</b>  | <b>\$ 90,040</b>  | <b>\$ 5,967</b>          | <b>7.1%</b>         |  |
| <b>Materials &amp; Supplies</b>       |                   |                   |                   |                          |                     |  |
| Chemicals                             | 6,000             | 8,208             | 8,579             | 372                      | 4.5%                |  |
| Operating Supplies                    | 2,778             | 3,110             | 3,282             | 173                      | 5.6%                |  |
| Printing                              | 347               | 370               | 424               | 53                       | 14.4%               |  |
| Postage                               | 496               | 491               | 531               | 40                       | 8.1%                |  |
| Permits, Licenses and Fees            | 2,027             | 2,200             | 2,301             | 102                      | 4.6%                |  |
| Office Supplies                       | 96                | 103               | 109               | 7                        | 6.3%                |  |
| Duplicating Equipment                 | 153               | 128               | 128               | -                        | 0.0%                |  |
| Equipment Rental                      | 76                | 92                | 100               | 8                        | 8.6%                |  |
| <b>Materials &amp; Supplies Total</b> | <b>\$ 11,973</b>  | <b>\$ 14,701</b>  | <b>\$ 15,455</b>  | <b>\$ 753</b>            | <b>5.1%</b>         |  |
| <b>Professional Services</b>          |                   |                   |                   |                          |                     |  |
| Rep & Maint OCSAN & Others            | 5,417             | 5,361             | 5,392             | 31                       | 0.6%                |  |
| Rep & Maint IRWD                      | 13,668            | 15,606            | 16,937            | 1,331                    | 8.5%                |  |
| Insurance                             | 2,768             | 3,252             | 3,698             | 446                      | 13.7%               |  |
| Legal Fees                            | 3,247             | 3,163             | 2,660             | (503)                    | (15.9%)             |  |
| Engineering Fees                      | 1,094             | 1,051             | 1,090             | 40                       | 3.8%                |  |
| Accounting Fees                       | 100               | 106               | 127               | 21                       | 19.8%               |  |
| Data Processing                       | 4,079             | 4,331             | 4,476             | 145                      | 3.4%                |  |
| Personnel Training                    | 1,551             | 1,804             | 1,881             | 77                       | 4.3%                |  |
| Personnel Physicals                   | 27                | 44                | 49                | 5                        | 11.4%               |  |
| Other Professional Fees               | 4,700             | 7,061             | 7,185             | 124                      | 1.8%                |  |
| Directors' Fees                       | 202               | 190               | 200               | 10                       | 5.3%                |  |
| <b>Professional Services Total</b>    | <b>\$ 36,853</b>  | <b>\$ 41,968</b>  | <b>\$ 43,695</b>  | <b>\$ 1,727</b>          | <b>4.1%</b>         |  |
| <b>Other</b>                          |                   |                   |                   |                          |                     |  |
| Election Expense                      | 165               | 60                | 170               | 110                      | 183.3%              |  |
| Safety                                | 120               | 112               | 98                | (14)                     | (12.8%)             |  |
| Alarm and Patrol Services             | 860               | 1,039             | 1,139             | 100                      | 9.7%                |  |
| Biosolids Disposals                   | 1,200             | 1,054             | 1,091             | 37                       | 3.5%                |  |
| Contract Meter Reading                | 1,575             | 1,630             | 1,660             | 30                       | 1.8%                |  |
| Over-Allocation                       | 695               | 1,040             | 1,044             | 5                        | 0.4%                |  |
| All Other                             | 502               | 559               | 564               | 5                        | 0.9%                |  |
| <b>Other Total</b>                    | <b>\$ 5,117</b>   | <b>\$ 5,495</b>   | <b>\$ 5,767</b>   | <b>\$ 273</b>            | <b>5.0%</b>         |  |
| <b>Total</b>                          | <b>\$ 202,225</b> | <b>\$ 226,624</b> | <b>\$ 240,789</b> | <b>\$ 14,166</b>         | <b>6.3%</b>         |  |
| Less: Reimbursements from Partners    | (4,859)           | (5,956)           | (6,324)           | (368)                    | 6.2%                |  |
| <b>Grand Total</b>                    | <b>\$ 197,365</b> | <b>\$ 220,668</b> | <b>\$ 234,465</b> | <b>\$ 13,797</b>         | <b>6.3%</b>         |  |



# OPERATING NET INCOME BY SYSTEM

FY 2023-24

*(in thousands)*

|  | Water             | Recycled         | Sewer            | Conserve &<br>NTS | Consolidated      |
|--|-------------------|------------------|------------------|-------------------|-------------------|
| <b>Revenue:</b>                                      |                   |                  |                  |                   |                   |
| Commodity  | \$ 60,063         | \$ 29,302        | \$ -             | \$ 17,175         | \$ 106,540        |
| Fixed Service Charges and<br>Other                   | 45,409            | 9,765            | 66,081           | -                 | 121,255           |
| Rate Stabilization                                   | 3,894             | -                | 3,288            | -                 | 7,182             |
| <b>Total Revenue</b>                                 | <b>\$ 109,366</b> | <b>\$ 39,067</b> | <b>\$ 69,369</b> | <b>\$ 17,175</b>  | <b>\$ 234,977</b> |
| Contribution to Enhancement<br>and Replacement Funds | (9,456)           | (1,271)          | (23,283)         | -                 | (34,010)          |
| <b>Net Revenues</b>                                  | <b>\$ 99,910</b>  | <b>\$ 37,796</b> | <b>\$ 46,086</b> | <b>\$ 17,175</b>  | <b>\$ 200,967</b> |
| <b>Expenses:</b>                                     |                   |                  |                  |                   |                   |
| Salaries and Benefits                                | \$ 19,920         | \$ 9,046         | \$ 17,909        | \$ 5,921          | \$ 52,796         |
| Water  | 45,072            | 7,911            | -                | -                 | 52,983            |
| Repairs and Maintenance                              | 5,372             | 1,359            | 4,857            | 3,239             | 14,827            |
| OCSAN - O&M  | -                 | -                | 4,207            | -                 | 4,207             |
| Electricity  | 15,307            | 8,616            | 3,409            | 449               | 27,781            |
| All Other Operating Expenses                         | 14,239            | 10,864           | 15,704           | 7,566             | 48,373            |
| <b>Total Expenses</b>                                | <b>\$ 99,910</b>  | <b>\$ 37,796</b> | <b>\$ 46,086</b> | <b>\$ 17,175</b>  | <b>\$ 200,967</b> |
| <b>Net Operating Position</b>                        | <b>\$ -</b>       | <b>\$ -</b>      | <b>\$ -</b>      | <b>\$ -</b>       | <b>\$ -</b>       |



# OPERATING NET INCOME BY SYSTEM

FY 2024-25

*(in thousands)*

|  | Water             | Recycled         | Sewer            | Conserve &<br>NTS | Consolidated      |
|--|-------------------|------------------|------------------|-------------------|-------------------|
| <b>Revenue:</b>                                      |                   |                  |                  |                   |                   |
| Commodity  | \$ 65,520         | \$ 30,803        | \$ -             | \$ 18,308         | \$ 114,631        |
| Fixed Service Charges and<br>Other                   | 50,825            | 10,993           | 73,478           | -                 | 135,296           |
| Rate Stabilization                                   | 165               | -                | 332              | -                 | 497               |
| <b>Total Revenue</b>                                 | <b>\$ 116,510</b> | <b>\$ 41,796</b> | <b>\$ 73,810</b> | <b>\$ 18,308</b>  | <b>\$ 250,424</b> |
| Contribution to Enhancement<br>and Replacement Funds | (10,250)          | (1,375)          | (25,675)         | -                 | (37,300)          |
| <b>Net Revenues</b>                                  | <b>\$ 106,260</b> | <b>\$ 40,421</b> | <b>\$ 48,135</b> | <b>\$ 18,308</b>  | <b>\$ 213,124</b> |
| <b>Expenses:</b>                                     |                   |                  |                  |                   |                   |
| Salaries and Benefits                                | \$ 21,323         | \$ 9,748         | \$ 19,344        | \$ 6,217          | \$ 56,632         |
| Water  | 47,562            | 8,890            | -                | -                 | 56,452            |
| Repairs and Maintenance                              | 5,889             | 1,427            | 4,821            | 3,976             | 16,113            |
| OCSAN - O&M  | -                 | -                | 4,212            | -                 | 4,212             |
| Electricity  | 16,761            | 9,318            | 3,627            | 474               | 30,180            |
| All Other Operating Expenses                         | 14,725            | 11,038           | 16,131           | 7,641             | 49,535            |
| <b>Total Expenses</b>                                | <b>\$ 106,260</b> | <b>\$ 40,421</b> | <b>\$ 48,135</b> | <b>\$ 18,308</b>  | <b>\$ 213,124</b> |
| <b>Net Operating Position</b>                        | <b>\$ -</b>       | <b>\$ -</b>      | <b>\$ -</b>      | <b>\$ -</b>       | <b>\$ -</b>       |





# NON-OPERATING

*FY 2023-24*

*Net Income <sup>(1)</sup>*

| <i>(in thousands)</i>          | <b>Forecast<br/>FY 2022-23</b> | <b>Approved<br/>FY 2022-23</b> | <b>Proposed<br/>FY 2023-24</b> | <b>Change</b>    |
|--------------------------------|--------------------------------|--------------------------------|--------------------------------|------------------|
| <b>Non-operating Revenue:</b>  |                                |                                |                                |                  |
| Property Taxes                 | \$ 75,600                      | \$ 73,000                      | \$ 78,600                      | \$ 5,600         |
| Investment Income              | 7,900                          | 2,080                          | 11,200                         | 9,120            |
| Connection Fees                | 13,000                         | 13,000                         | 12,000                         | (1,000)          |
| Real Estate Income             | 18,270                         | 18,180                         | 19,700                         | 1,520            |
| Other Income                   | 7,000                          | 7,000                          | 7,000                          | -                |
| <b>Total Revenue</b>           | <b>\$ 121,770</b>              | <b>\$ 113,260</b>              | <b>\$ 128,500</b>              | <b>\$ 15,240</b> |
| <b>Non-operating Expenses:</b> |                                |                                |                                |                  |
| Interest Expense               | \$ 21,280                      | \$ 21,280                      | \$ 27,900                      | \$ 6,620         |
| Real Estate Expense            | 7,404                          | 6,340                          | 7,800                          | 1,460            |
| Other Expenses                 | 1,500                          | 1,500                          | 1,500                          | -                |
| <b>Total Expense</b>           | <b>\$ 30,184</b>               | <b>\$ 29,120</b>               | <b>\$ 37,200</b>               | <b>\$ 8,080</b>  |
| <b>Net Income</b>              | <b>\$ 91,586</b>               | <b>\$ 84,140</b>               | <b>\$ 91,300</b>               | <b>\$ 7,160</b>  |

1) Excludes non-cash items, fair value changes, and pension benefit trust.



# NON-OPERATING

*FY 2024-25*

*Net Income<sup>(1)</sup>*

| (in thousands)                 | <b>Proposed<br/>FY 2023-24</b> | <b>Proposed<br/>FY 2024-25</b> | <b>Change</b>   |
|--------------------------------|--------------------------------|--------------------------------|-----------------|
| <b>Non-operating Revenue:</b>  |                                |                                |                 |
| Property Taxes                 | \$ 78,600                      | \$ 81,700                      | \$ 3,100        |
| Investment Income              | 11,200                         | 8,500                          | (2,700)         |
| Connection Fees                | 12,000                         | 11,000                         | (1,000)         |
| Real Estate Income             | 19,700                         | 20,300                         | 600             |
| Other Income                   | 7,000                          | 7,000                          | -               |
| <b>Total Revenue</b>           | <b>\$ 128,500</b>              | <b>\$ 128,500</b>              | <b>\$ -</b>     |
| <b>Non-operating Expenses:</b> |                                |                                |                 |
| Interest Expense               | \$ 27,900                      | \$ 27,500                      | \$ (400)        |
| Real Estate Expense            | 7,800                          | 8,100                          | 300             |
| Other Expenses                 | 1,500                          | 1,500                          | -               |
| <b>Total Expense</b>           | <b>\$ 37,200</b>               | <b>\$ 37,100</b>               | <b>\$ (100)</b> |
| <b>Net Income</b>              | <b>\$ 91,300</b>               | <b>\$ 91,400</b>               | <b>\$ 100</b>   |

1) Excludes non-cash items, fair value changes, and pension benefit trust.



## CURRENT AND PROPOSED RESIDENTIAL RATES

|  | FY 2023-24         |                    | FY 2024-25         |                    |
|--|--------------------|--------------------|--------------------|--------------------|
| Current Residential Rates:                   | Water <sup>1</sup> | Sewer <sup>2</sup> | Water <sup>1</sup> | Sewer <sup>2</sup> |
| <b>Low Volume</b>                            | \$1.53             |                    | \$1.75             |                    |
| <b>Commodity Rate</b>                        | \$2.42             |                    | \$2.52             |                    |
| Operations                                   | \$7.97             | \$10.02            | \$8.82             | \$11.66            |
| Replacements                                 | \$2.08             | \$9.61             | \$2.33             | \$10.62            |
| Enhancements                                 | \$0.70             | \$0.82             | \$0.70             | \$0.82             |
| <b>Total Service Charge</b>                  | \$10.75            | \$20.45            | \$11.85            | \$23.10            |
| <b>Commodity (12ccf's)</b>                   | \$24.59            |                    | \$26.39            |                    |
| <b>Current Monthly</b>                       | \$55.79            |                    | \$61.34            |                    |
| <b>Proposed Residential Rate Adjustment:</b> |                    |                    |                    |                    |
| <b>Low Volume</b>                            | \$1.75             |                    | \$1.99             |                    |
| <b>Base Commodity Rate</b>                   | \$2.52             |                    | \$2.65             |                    |
| <b>Operations</b>                            | \$8.82             | \$11.66            | \$9.91             | \$13.32            |
| <b>Replacements</b>                          | \$2.33             | \$10.62            | \$2.59             | \$11.56            |
| <b>Enhancements</b>                          | \$0.70             | \$0.82             | \$0.70             | \$0.82             |
| <b>Total Service Charge</b>                  | \$11.85            | \$23.10            | \$13.20            | \$25.70            |
| <b>Commodity</b>                             | \$26.39            |                    | \$28.50            |                    |
| <b>Proposed Monthly</b>                      | \$61.34            |                    | \$67.40            |                    |
| Current Monthly                              | \$55.79            |                    | \$61.34            |                    |
| Difference                                   | \$5.55             |                    | \$6.06             |                    |
| <b>Change %</b>                              | 9.9%               |                    | 9.9%               |                    |

<sup>1</sup> Water - District Average usage assumes 12 ccf's per month.

<sup>2</sup> Sewer - District average usage assumes 0-5 ccf for lowest 3 months.



# POTABLE REVENUE

*FY 2023-24*

| <i>(in thousands)</i>   | <u>FY 2022-23</u> | <u>Change</u>    | <u>FY 2023-24</u> |
|-------------------------|-------------------|------------------|-------------------|
| <b>Water</b>            |                   |                  |                   |
| Service                 | \$ 25,843         | \$ 3,577         | \$ 29,420         |
| Enhancement             | 2,235             | -                | 2,235             |
| Replacement             | 7,181             | 40               | 7,221             |
| Pumping Surcharge       | 1,074             | 457              | 1,531             |
| Commodity               | 54,795            | 5,268            | 60,063            |
| All Other               | 5,250             | (248)            | 5,002             |
| Rate Stabilization Fund | -                 | 3,894            | 3,894             |
|                         | <u>\$ 96,378</u>  | <u>\$ 12,988</u> | <u>\$ 109,366</u> |
| <br>                    |                   |                  |                   |
| <b>AF Sales</b>         | 53,511            |                  | 53,582            |
| <br>                    |                   |                  |                   |
| <b>User Type</b>        |                   |                  |                   |
| Residential             | \$ 59,222         | \$ 8,208         | \$ 67,430         |
| Commercial              | 14,918            | (89)             | 14,829            |
| Industrial              | 6,852             | 460              | 7,312             |
| Public Authority        | 2,733             | 372              | 3,105             |
| Landscape Irrigation    | 6,811             | 598              | 7,409             |
| Agriculture Irrigation  | 276               | (139)            | 137               |
| Construction/Temp.      | 1,344             | 41               | 1,385             |
| Fire Protection         | 4,222             | (357)            | 3,865             |
| Rate Stabilization Fund | -                 | 3,894            | 3,894             |
|                         | <u>\$ 96,378</u>  | <u>\$ 12,988</u> | <u>\$ 109,366</u> |



# POTABLE REVENUE

*FY 2024-25*

| <i>(in thousands)</i>   | <u>FY 2023-24</u> | <u>Change</u>   | <u>FY 2024-25</u> |
|-------------------------|-------------------|-----------------|-------------------|
| <b>Water</b>            |                   |                 |                   |
| Service                 | \$ 29,420         | \$ 4,080        | \$ 33,500         |
| Enhancement             | 2,235             | -               | 2,235             |
| Replacement             | 7,221             | 794             | 8,015             |
| Pumping Surcharge       | 1,531             | 165             | 1,696             |
| Commodity               | 60,063            | 5,457           | 65,520            |
| All Other               | 5,002             | 377             | 5,379             |
| Rate Stabilization Fund | 3,894             | (3,729)         | 165               |
|                         | <u>\$ 109,366</u> | <u>\$ 7,144</u> | <u>\$ 116,510</u> |
| <br>                    |                   |                 |                   |
| <b>AF Sales</b>         | 53,582            |                 | 54,654            |
| <br>                    |                   |                 |                   |
| <b>User Type</b>        |                   |                 |                   |
| Residential             | \$ 67,430         | \$ 7,415        | \$ 74,845         |
| Commercial              | 14,829            | 1,358           | 16,187            |
| Industrial              | 7,312             | 539             | 7,851             |
| Public Authority        | 3,105             | 250             | 3,355             |
| Landscape Irrigation    | 7,409             | 800             | 8,209             |
| Agriculture Irrigation  | 137               | 9               | 146               |
| Construction/Temp.      | 1,385             | 148             | 1,533             |
| Fire Protection         | 3,865             | 354             | 4,219             |
| Rate Stabilization Fund | 3,894             | (3,729)         | 165               |
|                         | <u>\$ 109,366</u> | <u>\$ 7,144</u> | <u>\$ 116,510</u> |



# RECYCLE REVENUE

*FY 2023-24*

*(in thousands)*

|                   | <b>FY 2022-23</b> | <b>Change</b> | <b>FY 2023-24</b> |
|-------------------|-------------------|---------------|-------------------|
| <b>Recycled</b>   |                   |               |                   |
| Service           | \$ 5,910          | \$ 435        | \$ 6,345          |
| Enhancement       | 330               | -             | 330               |
| Replacement       | 915               | 26            | 941               |
| Pumping Surcharge | 126               | 682           | 808               |
| Commodity         | 23,146            | 6,156         | 29,302            |
| All Other         | 651               | 690           | 1,341             |
|                   | \$ 31,078         | \$ 7,989      | \$ 39,067         |
| <b>AF</b>         | 30,445            |               | 32,943            |

**User Type**

|                    |           |          |           |
|--------------------|-----------|----------|-----------|
| Commercial         | 487       | \$ 79    | 566       |
| Industrial         | 28        | (7)      | 21        |
| Public Authority   | 568       | 108      | 676       |
| Landscape          | 27,475    | 6,233    | 33,708    |
| Recycled Loans     |           | -        |           |
| Agriculture        | 2,274     | 747      | 3,021     |
| Construction/Temp. | 246       | 169      | 415       |
| All Other          | -         | 660      | 660       |
|                    | \$ 31,078 | \$ 7,989 | \$ 39,067 |



# RECYCLE REVENUE

*FY 2024-25*

*(in thousands)*

|                   | <b>FY 2023-24</b> | <b>Change</b> | <b>FY 2024-25</b> |
|-------------------|-------------------|---------------|-------------------|
| <b>Recycled</b>   |                   |               |                   |
| Service           | \$ 6,345          | \$ 836        | \$ 7,181          |
| Enhancement       | 330               | -             | 330               |
| Replacement       | 941               | 104           | 1,045             |
| Pumping Surcharge | 808               | 88            | 896               |
| Commodity         | 29,302            | 1,501         | 30,803            |
| All Other         | 1,341             | 200           | 1,541             |
|                   | \$ 39,067         | \$ 2,729      | \$ 41,796         |
| <b>AF</b>         | 32,943            |               | 33,587            |

**User Type**

|                    |           |          |           |
|--------------------|-----------|----------|-----------|
| Commercial         | 566       | \$ 43    | 609       |
| Industrial         | 21        | 2        | 23        |
| Public Authority   | 676       | 14       | 690       |
| Landscape          | 33,708    | 2,359    | 36,067    |
| Agriculture        | 3,021     | 237      | 3,258     |
| Construction/Temp. | 415       | 35       | 450       |
| All Other          | 660       | 39       | 699       |
|                    | \$ 39,067 | \$ 2,729 | \$ 41,796 |



# SEWER REVENUE

*FY 2023-24*

*(in thousands)*

|                    | <b>FY 2022-23</b> | <b>Change</b> | <b>FY 2023-24</b> |
|--------------------|-------------------|---------------|-------------------|
| <b>Sewer</b>       |                   |               |                   |
| Service            | \$ 35,914         | \$ 6,169      | \$ 42,083         |
| Enhancement        | 1,534             | -             | 1,534             |
| Replacement        | 19,593            | 2,156         | 21,749            |
| All Other          | 426               | 289           | 715               |
| Rate Stabilization | -                 | 3,288         | 3,288             |
|                    | \$ 57,467         | \$ 11,902     | \$ 69,369         |

### **User Type**

|                    |           |           |           |
|--------------------|-----------|-----------|-----------|
| Residential        | \$ 44,090 | \$ 5,589  | \$ 49,679 |
| Commercial         | 8,915     | 1,008     | 9,923     |
| Industrial         | 2,856     | \$ 357    | 3,213     |
| Public Authority   | 1,606     | 1,660     | 3,266     |
| Rate Stabilization | -         | 3,288     | 3,288     |
|                    | \$ 57,467 | \$ 11,902 | \$ 69,369 |





# SEWER REVENUE

*FY 2024-25*

*(in thousands)*

|                    | <b>FY 2023-24</b> | <b>Change</b> | <b>FY 2024-25</b> |
|--------------------|-------------------|---------------|-------------------|
| <b>Sewer</b>       |                   |               |                   |
| Service            | \$ 42,083         | \$ 5,174      | \$ 47,257         |
| Enhancement        | 1,534             | -             | 1,534             |
| Replacement        | 21,749            | 2,392         | 24,141            |
| All Other          | 715               | (169)         | 546               |
| Rate Stabilization | 3,288             | (2,956)       | 332               |
|                    | \$ 69,369         | \$ 4,441      | \$ 73,810         |

### **User Type**

|                    |           |          |           |
|--------------------|-----------|----------|-----------|
| Residential        | \$ 49,679 | \$ 5,533 | \$ 55,212 |
| Commercial         | 9,923     | 1,141    | 11,064    |
| Industrial         | 3,213     | \$ 371   | 3,584     |
| Public Authority   | 3,266     | 352      | 3,618     |
| Rate Stabilization | 3,288     | (2,956)  | 332       |
|                    | \$ 69,369 | \$ 4,441 | \$ 73,810 |



# OVER-ALLOCATION REVENUE

*FY 2023-24*

| <i>(in thousands)</i>       | <b>FY 2022-23</b> | <b>Change</b> | <b>FY 2023-24</b> |
|-----------------------------|-------------------|---------------|-------------------|
| <b>Tier</b>                 |                   |               |                   |
| Universal Conservation      | \$ 1,629          | \$ 66         | \$ 1,695          |
| Inefficient                 | 2,512             | 55            | 2,567             |
| Wasteful                    | 11,912            | 1,001         | 12,913            |
|                             | \$ 16,053         | \$ 1,122      | \$ 17,175         |
| <br><b>Source or System</b> |                   |               |                   |
| Residential                 | \$ 9,912          | \$ 704        | \$ 10,616         |
| Commercial                  | 2,103             | 298           | 2,401             |
| Industrial                  | 590               | 140           | 730               |
| Public Authority            | 235               | 41            | 276               |
| Landscape                   | 3,189             | (62)          | 3,127             |
| Construction / Temp.        | 24                | 1             | 25                |
|                             | \$ 16,053         | \$ 1,122      | \$ 17,175         |



# OVER-ALLOCATION REVENUE

*FY 2024-25*

| <i>(in thousands)</i>       | <b>FY 2023-24</b> | <b>Change</b> | <b>FY 2024-25</b> |
|-----------------------------|-------------------|---------------|-------------------|
| <b>Tier</b>                 |                   |               |                   |
| Universal Conservation      | \$ 1,695          | \$ 34         | \$ 1,729          |
| Inefficient                 | 2,567             | 176           | 2,743             |
| Wasteful                    | 12,913            | 923           | 13,836            |
|                             | \$ 17,175         | \$ 1,133      | \$ 18,308         |
| <br><b>Source or System</b> |                   |               |                   |
| Residential                 | \$ 10,616         | \$ 639        | \$ 11,255         |
| Commercial                  | 2,401             | 179           | 2,580             |
| Industrial                  | 730               | 46            | 776               |
| Public Authority            | 276               | 17            | 293               |
| Landscape                   | 3,127             | 252           | 3,379             |
| Construction / Temp.        | 25                | -             | 25                |
|                             | \$ 17,175         | \$ 1,133      | \$ 18,308         |



# COST OF WATER

## BUDGETED COST OF WATER

| <i>(in thousands)</i>                       | FY 2022-23    |                  |           | FY 2023-24    |                  |           | Change       |                  |
|---|---------------|------------------|-----------|---------------|------------------|-----------|--------------|------------------|
|   | Acre Feet     | Total            | Cost / AF | Acre Feet     | Total            | Cost / AF | Acre Feet    | Total            |
| <b><u>TREATED</u></b>                       |               |                  |           |               |                  |           |              |                  |
| Purchased from MWDOC                        | 7,368         | \$10,327         | \$1,402   | 6,526         | \$ 10,385        | \$1,591   | (842)        | \$ 57            |
| Dyer Road Well Field                        | 28,000        | 19,852           | 709       | 28,000        | 23,809           | 850       | -            | 3,956            |
| OPA   | 10            | 54               |           | 1,500         | 1,549            | 1,033     | 1,490        | 1,496            |
| Deep Aquifer Treatment System               | 8,000         | 6,464            | 808       | 8,000         | 8,000            | 1,000     | 0            | 1,536            |
| Lost to Production                          | (160)         |                  |           | (160)         |                  |           | (0)          |                  |
| Wells 21 & 22 Desalter                      | 2,200         | 2,687            | 1,221     | 2,000         | 2,994            | 1,497     | (200)        | 307              |
| Lost to Production                          | (330)         |                  |           | (300)         |                  |           | 30           |                  |
| Baker WTP                                   | 7,200         | 8,038            | 1,116     | 7,200         | 8,307            | 1,154     | -            | 269              |
| Lost to Production                          | (144)         |                  |           | (144)         |                  |           | -            |                  |
| Principal Aquifer Plant (PTP)               | 4,500         | 4,575            | 1,017     | 5,000         | 5,799            | 1,160     | 500          | 1,224            |
| Lost to Production                          | (675)         |                  |           | (750)         |                  |           | (75)         |                  |
| Total Shrinkage                             | (2,675)       |                  |           | (3,391)       |                  |           | (716)        |                  |
| Total Treated Sales                         | 53,294        | \$ 51,998        |           | 53,481        | \$ 60,843        |           | 187          | \$ 8,844         |
| Total Sources                               | 57,268        |                  |           | 58,226        |                  |           | 958          |                  |
| <b><u>UNTREATED</u></b>                     |               |                  |           |               |                  |           |              |                  |
| Purchased from MWDOC                        | 2,250         | \$ 2,063         | \$917     | 2,529         | \$ 2,518         | \$995     | 279          | \$ 455           |
| Native Water                                | 2,000         | 690              | 345       | 3,000         | 1,071            | 357       | 1,000        | 381              |
| Santiago Aqueduct Commission                | 175           | 147              | 840       | 172           | 151              | 877       | (3)          | 4                |
| Transfer to RW System                       | (4,189)       | (3,192)          | 762       | (5,590)       | (5,540)          | 991       | (1,401)      | (2,348)          |
| Total Shrinkage                             | (19)          |                  |           | (10)          |                  |           | 8            |                  |
| Total Untreated Sales                       | 217           | \$ (293)         |           | 101           | \$ (1,801)       |           | (117)        | \$ (1,508)       |
| Total Sources                               | 236           |                  |           | 111           |                  |           | (125)        |                  |
| <b><u>RECYLED</u></b>                       |               |                  |           |               |                  |           |              |                  |
| El Toro Groundwater Remediation             | 4,600         | \$ 3,661         | \$796     | 3,800         | \$ 3,751         | \$987     | (800)        | \$ 90            |
| Lost to Production                          | (625)         |                  |           | (770)         |                  |           | (145)        |                  |
| MWRP / LAW RP Production                    | 22,890        | 8,314            | 363       | 25,640        | 10,707           | 418       | 2,750        | 2,393            |
| Transfer from Untreated System              | 4,189         | 3,192            | 762       | 5,590         | 5,540            | 991       | 1,401        | 2,348            |
| Total Shrinkage                             | (609)         |                  |           | (1,317)       |                  |           | (708)        |                  |
| Total Recycled System                       | 30,445        | \$ 15,167        |           | 32,943        | \$ 19,998        |           | 2,498        | \$ 4,831         |
| Total Sources                               | 31,679        |                  |           | 35,030        |                  |           | 3,351        |                  |
| <b>Total Cost of Water for Billed Usage</b> | <b>83,956</b> | <b>\$ 66,872</b> |           | <b>86,525</b> | <b>\$ 79,040</b> |           | <b>2,568</b> | <b>\$ 12,168</b> |



# COST OF WATER

## BUDGETED COST OF WATER

| <i>(in thousands)</i>                       | FY 2023-24    |                   |           | FY 2024-25    |                   |           | Change       |                 |
|---|---------------|-------------------|-----------|---------------|-------------------|-----------|--------------|-----------------|
|   | Acre Feet     | Total             | Cost / AF | Acre Feet     | Total             | Cost / AF | Acre Feet    | Total           |
| <b><u>TREATED</u></b>                       |               |                   |           |               |                   |           |              |                 |
| Purchased from MWDOC                        | 6,526         | \$ 10,385         | \$1,591   | 5,637         | \$ 9,030          | \$1,602   | (889)        | \$ (1,354)      |
| Dyer Road Well Field                        | 28,000        | 23,809            | 850       | 28,000        | 25,064            | 895       | -            | 1,256           |
| OPA   | 1,500         | 1,549             | 1,033     | 3,000         | 3,177             | 1,059     | 1,500        | 1,628           |
| Deep Aquifer Treatment System               | 8,000         | 8,000             | 1,000     | 8,000         | 8,598             | 1,075     | -            | 598             |
| Lost to Production                          | (160)         |                   |           | (160)         |                   |           | -            | -               |
| Wells 21 & 22 Desalter                      | 2,000         | 2,994             | 1,497     | 2,000         | 3,284             | 1,642     | -            | 290             |
| Lost to Production                          | (300)         |                   |           | (300)         |                   |           | -            | -               |
| Baker WTP                                   | 7,200         | 8,307             | 1,154     | 7,200         | 9,471             | 1,315     | -            | 1,164           |
| Lost to Production                          | (144)         |                   |           | (144)         |                   |           | -            | -               |
| Principal Aquifer Plant (PTP)               | 5,000         | 5,799             | 1,160     | 5,000         | 6,045             | 1,209     | -            | 246             |
| Lost to Production                          | (750)         |                   |           | (750)         |                   |           | -            | -               |
| Total Shrinkage                             | (3,391)       |                   |           | (2,932)       |                   |           | 459          | -               |
| <b>Total Treated</b>                        | <b>53,481</b> | <b>\$ 60,843</b>  |           | <b>54,551</b> | <b>\$ 64,669</b>  |           | <b>1,070</b> | <b>\$ 3,827</b> |
| <b>Total Sources</b>                        | <b>58,226</b> |                   |           | <b>58,837</b> |                   |           | <b>611</b>   |                 |
| <b><u>UNTREATED</u></b>                     |               |                   |           |               |                   |           |              |                 |
| Purchased from MWDOC                        | 2,529         | \$ 2,518          | \$995     | 2,353         | 2,370             | \$1,007   | (176)        | \$ (147)        |
| Native Water                                | 3,000         | 1,071             | 357       | 3,000         | 1,103             | 368       | -            | 32              |
| Santiago Aqueduct Commission                | 172           | 151               | 877       | 173           | 160               | 925       | 1            | 9               |
| Transfer to RW System                       | (5,590)       | (5,540)           | 991       | (5,414)       | (5,831)           | 1,077     | 176          | (291)           |
| Total Shrinkage                             | (10)          |                   |           | (9)           |                   |           | 0            | -               |
| <b>Total Untreated</b>                      | <b>101</b>    | <b>\$ (1,801)</b> |           | <b>103</b>    | <b>\$ (2,197)</b> |           | <b>1</b>     | <b>\$ (397)</b> |
| <b>Total Sources</b>                        | <b>111</b>    |                   |           | <b>112</b>    |                   |           | <b>1</b>     |                 |
| <b><u>RECYLED</u></b>                       |               |                   |           |               |                   |           |              |                 |
| El Toro Groundwater Remediation             | 3,800         | 3,751             | 987       | 4,600         | 4,575             | \$995     | 800          | 824             |
| Lost to Production                          | (770)         |                   |           | (1,060)       |                   |           | (290)        |                 |
| MWRP / LAW RP Production                    | 25,640        | 10,707            | 418       | 25,640        | 11,323            | 442       | -            | 616             |
| Transfer from Untreated System              | 5,590         | 5,540             | 991       | 5,414         | 5,831             | 1,077     | (176)        | 291             |
| Total Shrinkage                             | (1,317)       |                   |           | (1,007)       |                   |           | 310          |                 |
| <b>Total Recycled Sales</b>                 | <b>32,943</b> | <b>\$ 19,998</b>  |           | <b>33,587</b> | <b>\$ 21,729</b>  |           | <b>644</b>   | <b>\$ 1,731</b> |
| <b>Total Sources</b>                        | <b>35,030</b> |                   |           | <b>35,654</b> |                   |           | <b>624</b>   |                 |
| <b>Total Cost of Water for Billed Usage</b> | <b>86,525</b> | <b>\$ 79,040</b>  |           | <b>88,241</b> | <b>\$ 84,201</b>  |           | <b>1,715</b> | <b>\$ 5,161</b> |

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## GENERAL MANAGER'S OFFICE

### OPERATING BUDGET SUMMARY

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#### Program Description

The General Manager's Office implements the policies established and direction provided by the Board of Directors and, in so doing, provides overall direction to staff to complete that effort. The office also includes the Strategic Communications, Advocacy and Deputy General Counsel's Department. These divisions develop and advocate for policies at the federal, state and local levels that promote a reliable high quality and cost-effective water supply for Irvine Ranch Water District (IRWD) customers and demonstrate the efficient use of resources. The Advocacy and Communications staff represent IRWD's policies and provides technical expertise to the legislative process, particularly on issues of water recycling, water use efficiency, water rates, water supply reliability and governance, among others, and engage with community leaders, key stakeholders and groups on behalf of the District.

The General Manager's Office also:

- Provides direct services to and communications with the Board of Directors;
- Produces and distributes Board and Board Committee meeting packets;
- Schedules all Board and Board Committee, and annual/special independent corporation meetings;
- Produces the minutes of all Board meetings;
- Maintains all Board resolutions;
- Schedules other meetings and functions on behalf of the Board members and makes travel arrangements, as needed;
- Maintains records of all inter-agency agreements, deeds and easements;
- Maintains records for the various independent corporations;
- Shapes, guides and engages on local, state and federal policies, legislation and regulations;
- Manages and coordinates the legal resources utilized by the District;
- Responds to, or directs response to, all media inquiries; and,
- Responds to, or directs response to, all public information requests and subpoenas.

The General Manager's Office works with the Board of Directors and staff to establish the District's strategic vision for all departments. On January 31, 2023, staff reviewed the 2023 Goals and Target Activities with the Board. The Goals described below reflect the *Strategic Objectives*, as well as the *Mission, Vision and Values* of Irvine Ranch Water District as adopted by the Board. The District's Major Goals for calendar year 2023 are summarized as follows:



## **GENERAL MANAGER'S OFFICE**

### **OPERATING BUDGET SUMMARY**

---

#### **Major Goals**

1. Optimize and protect IRWD's local groundwater utilization.
2. Optimize use of Irvine Lake as a water resource facility for IRWD and its current and future partners.
3. Develop water recycling facilities and applications for optimal benefit.
4. Maximize resource recovery from fully functional biosolids and other resource recovery facilities.
5. Develop and implement maintenance and replacement programs and other systems that enhance safety, sustained operations at the District's facilities.
6. Improve energy service reliability, manage demands, control greenhouse gas emissions, and control costs.
7. Implement opportunities that enhance safety, security, and emergency preparedness throughout the District.
8. Maximize water use efficiency in the community.
9. Maximize watershed protection.
10. Evaluate and invest in projects and programs that will enhance future long-term water supply reliability and resiliency to climate change.
11. Develop water banking supplies for IRWD by working with current and future partners.
12. Develop and implement the Kern Fan Groundwater Storage Project through the Groundwater Banking Joint Powers Authority.
13. Ensure financial and rate stability.
14. Identify, assess, and implement new technologies, systems, and facilities to improve operating efficiency.
15. Recruit, develop, and retain a highly skilled, motivated, and educated work force.





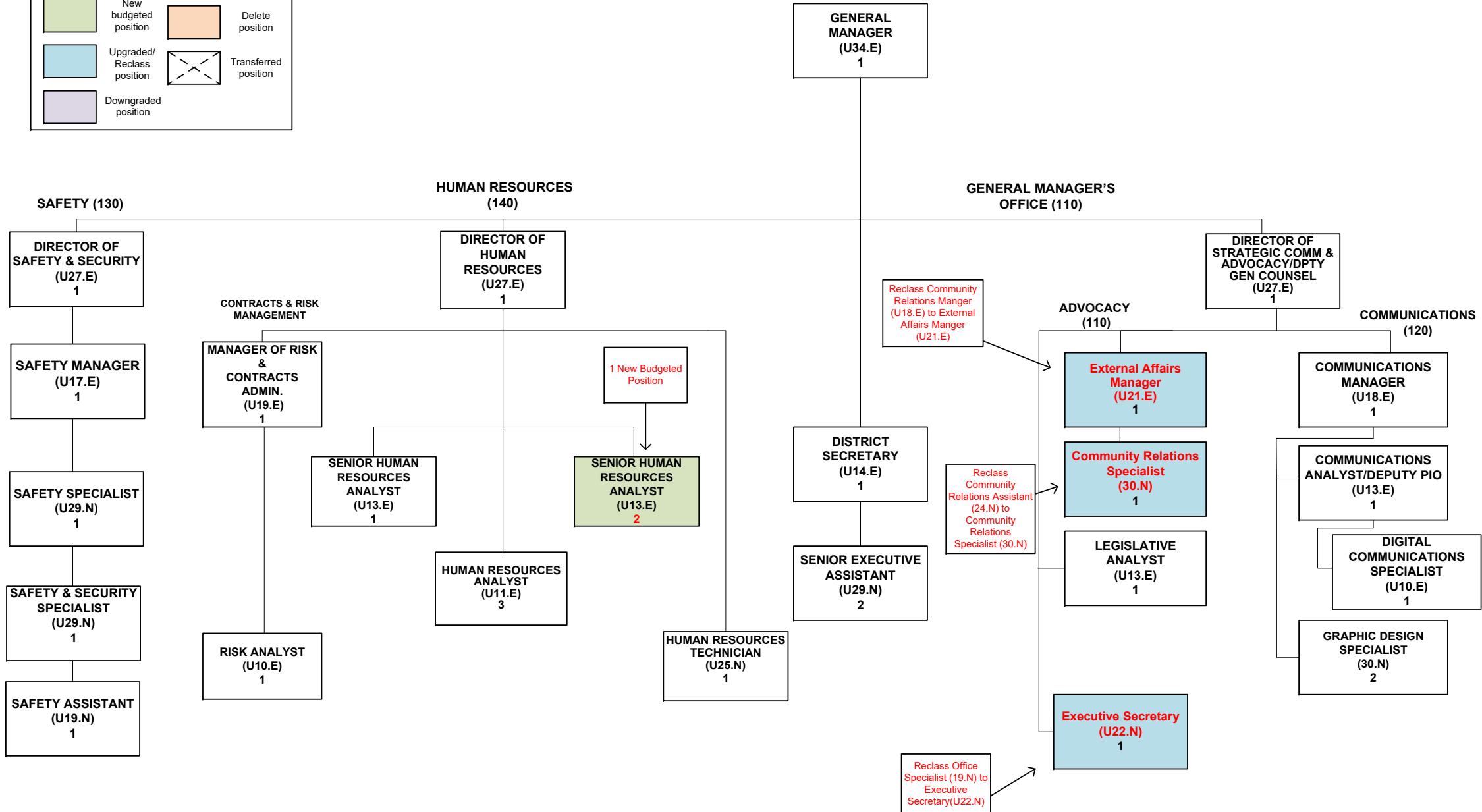
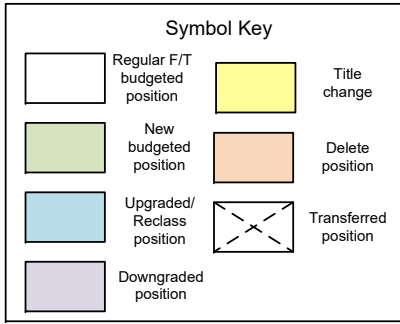
## **GENERAL MANAGER'S OFFICE**

### **OPERATING BUDGET SUMMARY**

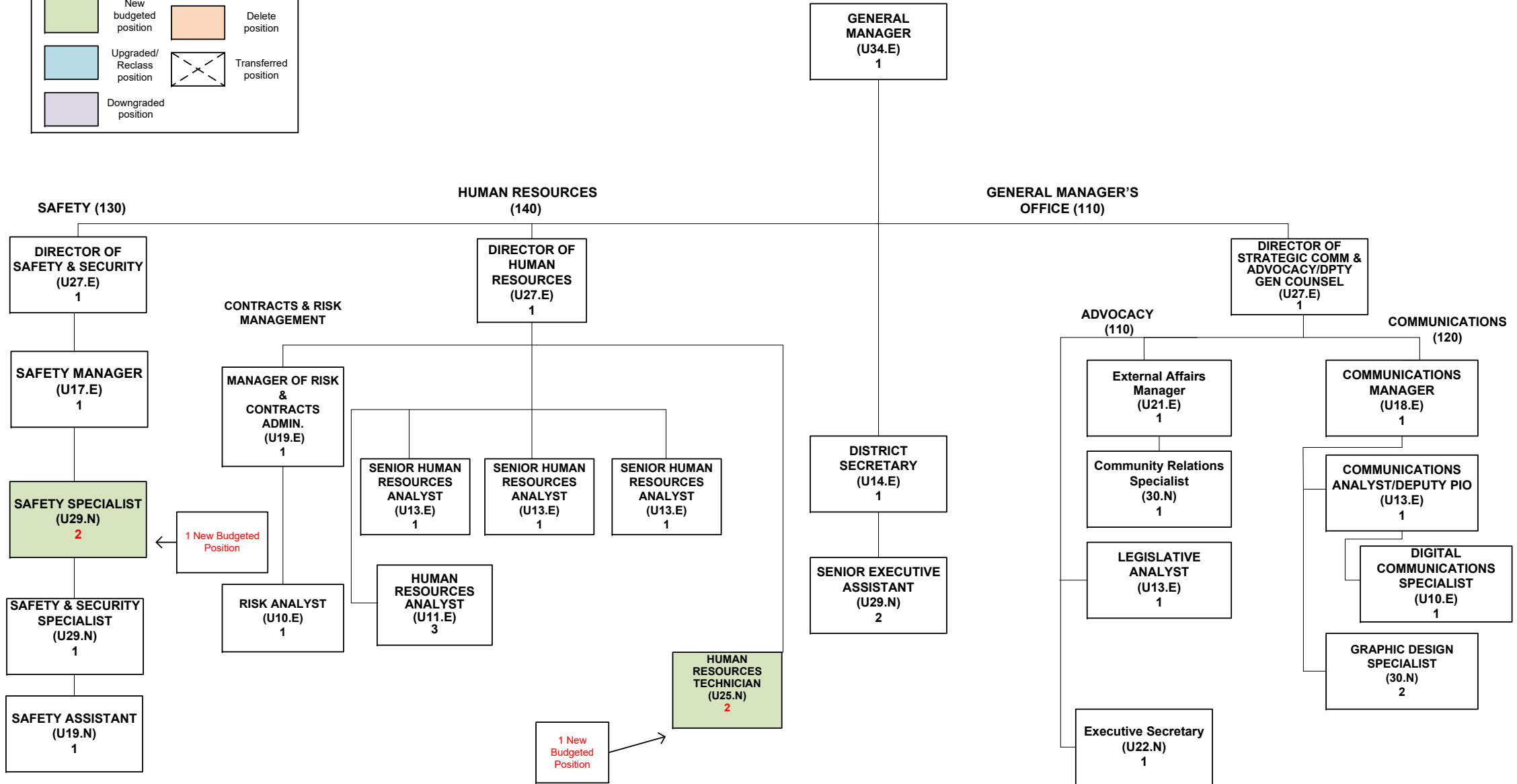
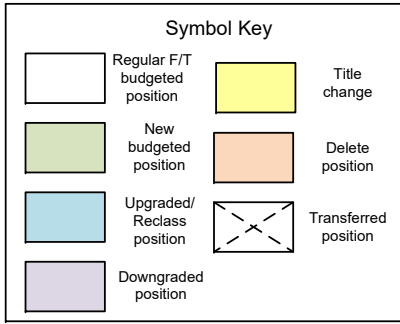
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16. Collaborate with other agencies and entities through leadership and innovation.
17. Enhance customer communications and community outreach.
18. Guide and lead local, state, and federal policies and legislation.
19. Influence new policies and regulations put forth by local, state, and federal agencies.

**IRVINE RANCH WATER DISTRICT  
ADMINISTRATION  
FISCAL YEAR 2023-24**



**IRVINE RANCH WATER DISTRICT  
ADMINISTRATION  
FISCAL YEAR 2024-25**



**Irvine Ranch Water District**  
**Consolidated Operating Expense Budget for FY 2023-24**

| Administration                       |                            | FY 2021-22 | FY 2022-23              | FY2022-23 | FY 2023-24         |             |
|--------------------------------------|----------------------------|------------|-------------------------|-----------|--------------------|-------------|
| Dept No                              | Expense Name               | Actual     | Actual thru<br>12/31/22 | Budget    | Proposed<br>Budget | Incr/(Decr) |
| <u>General Managers Office</u>       |                            |            |                         |           |                    |             |
| 110                                  | Regular Labor              | 1,112,761  | 565,614                 | 903,600   | 1,254,800          | 351,200     |
| 110                                  | Overtime Labor             | 0          | 0                       | 8,400     | 8,400              | 0           |
| 110                                  | Employee Benefits          | 275,060    | 176,969                 | 660,800   | 670,390            | 9,590       |
| 110                                  | Operating Supplies         | 112        | 0                       | 0         | 0                  | 0           |
| 110                                  | Printing                   | 1,032      | 207                     | 15,000    | 10,000             | (5,000)     |
| 110                                  | Postage                    | 0          | 0                       | 252       | 400                | 148         |
| 110                                  | Permits, Licenses and Fees | 44,878     | 29,560                  | 72,000    | 60,000             | (12,000)    |
| 110                                  | Office Supplies            | 2,762      | 1,186                   | 4,400     | 5,000              | 600         |
| 110                                  | Rep & Maint IRWD           | 1,897      | 0                       | 0         | 1,800              | 1,800       |
| 110                                  | Legal Fees                 | 1,654,596  | 772,079                 | 3,147,250 | 3,163,000          | 15,750      |
| 110                                  | Personnel Training         | 407,624    | 284,390                 | 497,100   | 563,900            | 66,800      |
| 110                                  | Other Professional Fees    | 752,677    | 403,924                 | 1,013,400 | 1,097,860          | 84,460      |
| 110                                  | Directors' Fees            | 170,835    | 82,845                  | 202,000   | 190,000            | (12,000)    |
| 110                                  | Election Expense           | 160,000    | 82,500                  | 165,000   | 60,000             | (105,000)   |
| <b>Total General Managers Office</b> |                            | 4,584,234  | 2,399,275               | 6,689,202 | 7,085,550          | 396,348     |

Irvine Ranch Water District  
**Consolidated Operating Expense Budget for FY 2024-25**

| Administration                       |                            | FY 2021-22<br>Actual | FY 2022-23<br>Actual thru<br>12/31/23 | FY 2023-24<br>Proposed<br>Budget | FY 2024-25<br>Proposed<br>Budget | Incr/(Decr)      |
|--------------------------------------|----------------------------|----------------------|---------------------------------------|----------------------------------|----------------------------------|------------------|
| <u>Dept No</u>                       | <u>Expense Name</u>        |                      |                                       |                                  |                                  |                  |
| <u>General Managers Office</u>       |                            |                      |                                       |                                  |                                  |                  |
| 110                                  | Regular Labor              | 1,112,761            | 565,614                               | 1,254,800                        | 1,327,800                        | 73,000           |
| 110                                  | Overtime Labor             | 0                    | 0                                     | 8,400                            | 8,400                            | 0                |
| 110                                  | Employee Benefits          | 275,060              | 176,969                               | 670,390                          | 755,410                          | 85,020           |
| 110                                  | Operating Supplies         | 112                  | 0                                     | 0                                | 0                                | 0                |
| 110                                  | Printing                   | 1,032                | 207                                   | 10,000                           | 10,000                           | 0                |
| 110                                  | Postage                    | 0                    | 0                                     | 400                              | 400                              | 0                |
| 110                                  | Permits, Licenses and Fees | 44,878               | 29,560                                | 60,000                           | 65,000                           | 5,000            |
| 110                                  | Office Supplies            | 2,762                | 1,186                                 | 5,000                            | 5,000                            | 0                |
| 110                                  | Rep & Maint IRWD           | 1,897                | 0                                     | 1,800                            | 1,800                            | 0                |
| 110                                  | Legal Fees                 | 1,654,596            | 772,079                               | 3,163,000                        | 2,660,000                        | (503,000)        |
| 110                                  | Personnel Training         | 407,624              | 284,390                               | 563,900                          | 591,500                          | 27,600           |
| 110                                  | Other Professional Fees    | 752,677              | 403,924                               | 1,097,860                        | 1,149,860                        | 52,000           |
| 110                                  | Directors' Fees            | 170,835              | 82,845                                | 190,000                          | 200,000                          | 10,000           |
| 110                                  | Election Expense           | 160,000              | 82,500                                | 60,000                           | 170,000                          | 110,000          |
| <b>Total General Managers Office</b> |                            | <b>4,584,234</b>     | <b>2,399,275</b>                      | <b>7,085,550</b>                 | <b>6,945,170</b>                 | <b>(140,380)</b> |

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# COMMUNICATIONS

## OPERATING BUDGET SUMMARY

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### Program Description

The Strategic Communications and Advocacy Department, which is within the General Manager's Office, is responsible for the Districts communications, advocacy, community relations and legal services. The Communications division of that department is responsible for communicating accurate and timely information about Irvine Ranch Water District services, projects, activities and programs, and for promoting the District's water use efficiency initiatives. Communications uses multiple platforms, including websites, print, social media, video, personal contact, education programs, publications, and tours.

The IRWD communication program serves the District and its customers by:

- Creating and maintain credibility and public trust;
- Increasing customer awareness of the services IRWD provides;
- Promoting the District's value, activities and events of significance;
- Conveying accurate, timely information to the public on sensitive and controversial issues;
- Promoting transparency and easy-to-access information.

### Major Goals

#### WATER EFFICIENCY OUTREACH

- Develop and implement an overarching message to educate customers about water efficiency;
- Reach customers about the beauty of water-efficient landscape and IRWD rebates;
- Enhance water efficiency webinars to make content engaging and useful on multiple platforms;
- Promote water efficiency events to reach more customers, and those who haven't participated;
- Educate the public about the value of recycled water and storage reservoirs;
- Provide students in the IRWD service area with learning opportunities regarding water supply, water reliability, tap water, and water use efficiency programs. Promote water education programs to schools in the IRWD service area;
- Conduct outreach to customers who regularly exceed their monthly water budget; and
- Teach customers how to save water and money by understanding their water bill.

#### CUSTOMER OUTREACH

- Conduct tours and programs to educate customers;
- Through transparency and education, assure customers of the quality of IRWD water;
- Develop educational displays for District facilities;



## **COMMUNICATIONS**

### **OPERATING BUDGET SUMMARY**

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- Continue to create, update and refine multi-pronged social media outreach channels to inform IRWD customers, the media, business partners, IRWD employees and other government entities;
- Refine and execute tap water quality programs and infrastructure outreach programs;
- Enhance public trust by promoting customer service and answering customer questions;
- Enhance communications with customers regarding construction and maintenance projects;
- Enhance public trust and employee safety by helping customers access IRWD customer service remotely; and
- Provide enhanced customer outreach initiatives based on customer feedback programs.

#### **INTERNAL COMMUNICATIONS**

- Improve employee communication by expanding the usefulness of the intranet and other tools to communicate with staff.



Irvine Ranch Water District  
**Consolidated Operating Expense Budget for FY 2023-24**

| Administration              |                         | FY 2021-22 | FY 2022-23              | FY2022-23 | FY 2023-24         |             |
|-----------------------------|-------------------------|------------|-------------------------|-----------|--------------------|-------------|
| Dept No                     | Expense Name            | Actual     | Actual thru<br>12/31/22 | Budget    | Proposed<br>Budget | Incr/(Decr) |
| <b>Communications</b>       |                         |            |                         |           |                    |             |
| 120                         | Regular Labor           | 599,055    | 360,827                 | 704,500   | 722,102            | 17,602      |
| 120                         | Overtime Labor          | 11,593     | 11,650                  | 0         | 0                  | 0           |
| 120                         | Employee Benefits       | 106,144    | 75,127                  | 512,400   | 458,230            | (54,170)    |
| 120                         | Contract Labor          | 264        | 0                       | 0         | 0                  | 0           |
| 120                         | Operating Supplies      | 0          | 451                     | 400       | 400                | 0           |
| 120                         | Printing                | 61,342     | 17,222                  | 65,000    | 65,000             | 0           |
| 120                         | Postage                 | 0          | 26                      | 200       | 200                | 0           |
| 120                         | Office Supplies         | 2,429      | 2,334                   | 6,000     | 5,000              | (1,000)     |
| 120                         | Equipment Rental        | 0          | 0                       | 0         | 3,800              | 3,800       |
| 120                         | Rep & Maint IRWD        | 3,329      | 916                     | 0         | 4,100              | 4,100       |
| 120                         | Personnel Training      | 5,230      | 350                     | 15,052    | 17,100             | 2,048       |
| 120                         | Other Professional Fees | 926,032    | 518,976                 | 1,442,600 | 1,691,600          | 249,000     |
| 120                         | Mileage Reimbursement   | 82         | 521                     | 0         | 0                  | 0           |
| <b>Total Communications</b> |                         | 1,715,501  | 988,401                 | 2,746,152 | 2,967,532          | 221,380     |

Irvine Ranch Water District  
**Consolidated Operating Expense Budget for FY 2024-25**

**Administration**

| <u>Dept No</u>              | <u>Expense Name</u>     | FY 2021-22<br>Actual | FY 2022-23<br>Actual thru<br>12/31/23 | FY 2023-24<br>Proposed<br>Budget | FY 2024-25<br>Proposed<br>Budget | Incr/(Decr) |
|-----------------------------|-------------------------|----------------------|---------------------------------------|----------------------------------|----------------------------------|-------------|
| <b>Communications</b>       |                         |                      |                                       |                                  |                                  |             |
| 120                         | Regular Labor           | 599,055              | 360,827                               | 722,102                          | 830,600                          | 108,498     |
| 120                         | Overtime Labor          | 11,593               | 11,650                                | 0                                | 0                                | 0           |
| 120                         | Employee Benefits       | 106,144              | 75,127                                | 458,230                          | 487,790                          | 29,560      |
| 120                         | Contract Labor          | 264                  | 0                                     | 0                                | 0                                | 0           |
| 120                         | Operating Supplies      | 0                    | 451                                   | 400                              | 400                              | 0           |
| 120                         | Printing                | 61,342               | 17,222                                | 65,000                           | 65,000                           | 0           |
| 120                         | Postage                 | 0                    | 26                                    | 200                              | 200                              | 0           |
| 120                         | Office Supplies         | 2,429                | 2,334                                 | 5,000                            | 5,000                            | 0           |
| 120                         | Equipment Rental        | 0                    | 0                                     | 3,800                            | 4,000                            | 200         |
| 120                         | Rep & Maint IRWD        | 3,329                | 916                                   | 4,100                            | 4,400                            | 300         |
| 120                         | Personnel Training      | 5,230                | 350                                   | 17,100                           | 17,100                           | 0           |
| 120                         | Other Professional Fees | 926,032              | 518,976                               | 1,691,600                        | 1,727,100                        | 35,500      |
| 120                         | Mileage Reimbursement   | 82                   | 521                                   | 0                                | 0                                | 0           |
| <b>Total Communications</b> |                         | 1,715,501            | 988,401                               | 2,967,532                        | 3,141,590                        | 174,058     |



# **SAFETY**

## **OPERATING BUDGET SUMMARY**

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### **Program Description**

The mission of the Safety & Security Department is to administer the Safety, Security, and Emergency Preparedness Programs that supports the District's efforts to provide a safe and secure work environment for employees. The Safety & Security Department administers training, develops, maintains, and updates Health & Safety Programs (HSPs), supports incident investigations by capturing pertinent data for analysis, coordinates emergency preparedness activities such as training and exercises, submits regulatory reports, and provides safety expertise and advice.

### **Major Goals**

- Meet the Department's adopted Safety & Security budget;
- Continue to enhance and provide safety training and learning opportunities for all levels of staff;
- Implement customized supervisor leadership training to enhance individual and team safety performance;
- Continue to encourage near miss, good catch, and safety suggestion reporting to promote employee involvement and contribution toward a safe work environment;
- Develop a safety rewards system to recognize those that go above and beyond the call to safety by consistently demonstrating the Safety Value;
- Continue to review and update existing Safe Work Practices (SWPs) and reformat to Health & Safety Programs (HSPs) with input from stakeholders;
- Re-establish the General Safety Committee for members to participate, share information, and promote safety within their respective sections and departments;
- Conduct emergency preparedness training and exercises in line with the Multi-Year Training & Exercise Plan (MYTEP).
- Review and update emergency preparedness procedures, including the Emergency Operations Plan (EOP) and Hazard Specific Response Plans (HSRPs) based on the results of training, exercises, and events where improvements are necessary;
- Implement a mass notification system to communicate with employees and customers of an emergency and test the system periodically; and
- Continue to ensure the security of District facilities by reviewing facility access controls, determining appropriate level of video surveillance, or other methods to maintain the integrity of District operations.

Irvine Ranch Water District  
**Consolidated Operating Expense Budget for FY 2023-24**

| Administration      |                            | FY 2021-22 | FY 2022-23              | FY2022-23 | FY 2023-24         |             |
|---------------------|----------------------------|------------|-------------------------|-----------|--------------------|-------------|
| Dept No             | Expense Name               | Actual     | Actual thru<br>12/31/22 | Budget    | Proposed<br>Budget | Incr/(Decr) |
| <b>Safety</b>       |                            |            |                         |           |                    |             |
| 130                 | Regular Labor              | 194,306    | 225,671                 | 253,700   | 370,800            | 117,100     |
| 130                 | Overtime Labor             | 1,331      | 471                     | 6,120     | 4,000              | (2,120)     |
| 130                 | Employee Benefits          | 18,898     | 22,059                  | 177,200   | 204,460            | 27,260      |
| 130                 | Contract Labor             | 0          | 0                       | 60,000    | 0                  | (60,000)    |
| 130                 | Operating Supplies         | 50,032     | 32,419                  | 113,450   | 149,800            | 36,350      |
| 130                 | Printing                   | 0          | 0                       | 4,000     | 8,400              | 4,400       |
| 130                 | Postage                    | 91         | 0                       | 500       | 400                | (100)       |
| 130                 | Permits, Licenses and Fees | 12,759     | 2,419                   | 35,500    | 45,500             | 10,000      |
| 130                 | Office Supplies            | 27,385     | 12,075                  | 31,000    | 38,000             | 7,000       |
| 130                 | Engineering Fees           | 0          | 0                       | 0         | 40,000             | 40,000      |
| 130                 | Data Processing            | 0          | 0                       | 0         | 0                  | 0           |
| 130                 | Personnel Training         | 259,787    | 182,067                 | 203,500   | 207,550            | 4,050       |
| 130                 | Personnel Physicals        | 149,140    | (165)                   | 12,000    | 8,900              | (3,100)     |
| 130                 | Other Professional Fees    | 479,709    | 146,790                 | 200,000   | 289,600            | 89,600      |
| 130                 | Safety                     | 30,254     | 39,139                  | 31,000    | 40,600             | 9,600       |
| 130                 | Alarm and Patrol Services  | 31,056     | 5,310                   | 60,000    | 1,039,000          | 979,000     |
| <b>Total Safety</b> |                            | 1,254,747  | 668,255                 | 1,187,970 | 2,447,010          | 1,259,040   |

Irvine Ranch Water District  
**Consolidated Operating Expense Budget for FY 2024-25**

**Administration**

| <u>Dept No</u>      | <u>Expense Name</u>        | FY 2021-22<br>Actual | FY 2022-23<br>Actual thru<br>12/31/23 | FY 2023-24<br>Proposed<br>Budget | FY 2024-25<br>Proposed<br>Budget | Incr/(Decr) |
|---------------------|----------------------------|----------------------|---------------------------------------|----------------------------------|----------------------------------|-------------|
| <b>Safety</b>       |                            |                      |                                       |                                  |                                  |             |
| 130                 | Regular Labor              | 194,306              | 225,671                               | 370,800                          | 488,100                          | 117,300     |
| 130                 | Overtime Labor             | 1,331                | 471                                   | 4,000                            | 4,000                            | 0           |
| 130                 | Employee Benefits          | 18,898               | 22,059                                | 204,460                          | 271,690                          | 67,230      |
| 130                 | Contract Labor             | 0                    | 0                                     | 0                                | 0                                | 0           |
| 130                 | Operating Supplies         | 50,032               | 32,419                                | 149,800                          | 162,800                          | 13,000      |
| 130                 | Printing                   | 0                    | 0                                     | 8,400                            | 8,400                            | 0           |
| 130                 | Postage                    | 91                   | 0                                     | 400                              | 400                              | 0           |
| 130                 | Permits, Licenses and Fees | 12,759               | 2,419                                 | 45,500                           | 45,500                           | 0           |
| 130                 | Office Supplies            | 27,385               | 12,075                                | 38,000                           | 38,000                           | 0           |
| 130                 | Engineering Fees           | 0                    | 0                                     | 40,000                           | 40,000                           | 0           |
| 130                 | Data Processing            | 0                    | 0                                     | 0                                | 0                                | 0           |
| 130                 | Personnel Training         | 259,787              | 182,067                               | 207,550                          | 207,550                          | 0           |
| 130                 | Personnel Physicals        | 149,140              | (165)                                 | 8,900                            | 8,900                            | 0           |
| 130                 | Other Professional Fees    | 479,709              | 146,790                               | 289,600                          | 289,600                          | 0           |
| 130                 | Safety                     | 30,254               | 39,139                                | 40,600                           | 24,600                           | (16,000)    |
| 130                 | Alarm and Patrol Services  | 31,056               | 5,310                                 | 1,039,000                        | 1,139,400                        | 100,400     |
| <b>Total Safety</b> |                            | 1,254,747            | 668,255                               | 2,447,010                        | 2,728,940                        | 281,930     |

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# **HUMAN RESOURCES**

## **OPERATING BUDGET SUMMARY**

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### **Program Description**

The Human Resources function provides comprehensive organizational development and personnel management services to maximize the potential of the District's human resources and overall employee efficiency, effectiveness, and satisfaction. The Human Resources Department is responsible for attracting and recruiting a highly qualified workforce and working with management to attract, develop and sustain a motivated, productive organization.

Human Resources ensures the delivery of a competitive compensation and benefits package, continuous improvement through employee training, and an ongoing employee reward and recognition program tied to achieving stated goals and objectives. The Department also manages employee leaves and the accommodation process; provides guidance to staff; oversees the DMV pull notice and drug and alcohol testing programs, equal employment opportunity program reporting; and ensures compliance with State and Federal employment mandates. The Department is responsible for employee and labor relations, which includes contract negotiations, interpretation, and implementation of the Memoranda of Understanding (MOUs), policies, procedures, and guidelines. Human Resources also acquires and maintains insurance for the District and oversees contract administration, risk management claims, and the workers' compensation program.

### **Major Goals**

#### **HUMAN RESOURCES**

- Partner with management to assess the training and development needs of IRWD employees;
- Engage with other Orange County public agencies, and pursue other workforce development efforts to ensure a continued supply of highly skilled labor; and
- Evaluate District Policies and Procedures.

#### **CONTRACT ADMINISTRATION/RISK MANAGEMENT/INSURANCE**

- Ensure the District has adequate insurance to safeguard assets appropriately;
- Manage the personal injury, workers' compensation, and property claims and coordinate legal matters in a timely manner; and
- Assist with contract administration ensuring adequate insurance coverage language is incorporated into contracts to protect the District's interests.

Irvine Ranch Water District  
**Consolidated Operating Expense Budget for FY 2023-24**

| Administration               |                         | FY 2021-22 | FY 2022-23              | FY2022-23  | FY 2023-24         |             |
|------------------------------|-------------------------|------------|-------------------------|------------|--------------------|-------------|
| Dept No                      | Expense Name            | Actual     | Actual thru<br>12/31/22 | Budget     | Proposed<br>Budget | Incr/(Decr) |
| <b>Human Resources</b>       |                         |            |                         |            |                    |             |
| 140                          | Regular Labor           | 635,606    | (314,193)               | 592,600    | 956,800            | 364,200     |
| 140                          | Overtime Labor          | 38,764     | 2,698                   | 20,000     | 15,000             | (5,000)     |
| 140                          | Employee Benefits       | 23,936,742 | 12,073,794              | 6,084,192  | 5,836,700          | (247,492)   |
| 140                          | Contract Labor          | 46,063     | 34,500                  | 39,000     | 80,000             | 41,000      |
| 140                          | Postage                 | 1,064      | 264                     | 800        | 800                | 0           |
| 140                          | Office Supplies         | 4,127      | 1,958                   | 2,500      | 6,000              | 3,500       |
| 140                          | Rep & Maint IRWD        | 650        | 0                       | 0          | 0                  | 0           |
| 140                          | Insurance               | 0          | 0                       | 0          | 0                  | 0           |
| 140                          | Legal Fees              | 222,832    | 119,873                 | 100,000    | 0                  | (100,000)   |
| 140                          | Personnel Training      | 359,213    | 124,276                 | 462,100    | 508,000            | 45,900      |
| 140                          | Personnel Physicals     | 27,251     | 7,252                   | 15,000     | 35,000             | 20,000      |
| 140                          | Other Professional Fees | 327,041    | 212,871                 | 176,500    | 512,000            | 335,500     |
| 140                          | Commuter Program        | 98,206     | 83,808                  | 220,000    | 220,000            | 0           |
| <b>Total Human Resources</b> |                         | 25,697,559 | 12,347,101              | 7,712,692  | 8,170,300          | 457,608     |
|                              |                         |            |                         |            |                    |             |
| <b>Total Administration</b>  |                         | 33,252,041 | 16,403,032              | 18,336,016 | 20,670,392         | 2,334,376   |



**Irvine Ranch Water District**  
**Consolidated Operating Expense Budget for FY 2024-25**

| Administration               |                         | FY 2021-22 | FY 2022-23              | FY 2023-24         | FY 2024-25         |             |
|------------------------------|-------------------------|------------|-------------------------|--------------------|--------------------|-------------|
| Dept No                      | Expense Name            | Actual     | Actual thru<br>12/31/23 | Proposed<br>Budget | Proposed<br>Budget | Incr/(Decr) |
| <b>Human Resources</b>       |                         |            |                         |                    |                    |             |
| 140                          | Regular Labor           | 635,606    | (314,193)               | 956,800            | 1,096,900          | 140,100     |
| 140                          | Overtime Labor          | 38,764     | 2,698                   | 15,000             | 15,000             | 0           |
| 140                          | Employee Benefits       | 23,936,742 | 12,073,794              | 5,836,700          | 6,129,844          | 293,144     |
| 140                          | Contract Labor          | 46,063     | 34,500                  | 80,000             | 85,000             | 5,000       |
| 140                          | Postage                 | 1,064      | 264                     | 800                | 800                | 0           |
| 140                          | Office Supplies         | 4,127      | 1,958                   | 6,000              | 6,000              | 0           |
| 140                          | Rep & Maint IRWD        | 650        | 0                       | 0                  | 0                  | 0           |
| 140                          | Insurance               | 0          | 0                       | 0                  | 0                  | 0           |
| 140                          | Legal Fees              | 222,832    | 119,873                 | 0                  | 0                  | 0           |
| 140                          | Personnel Training      | 359,213    | 124,276                 | 508,000            | 533,000            | 25,000      |
| 140                          | Personnel Physicals     | 27,251     | 7,252                   | 35,000             | 40,000             | 5,000       |
| 140                          | Other Professional Fees | 327,041    | 212,871                 | 512,000            | 517,500            | 5,500       |
| 140                          | Commuter Program        | 98,206     | 83,808                  | 220,000            | 220,000            | 0           |
| <b>Total Human Resources</b> |                         | 25,697,559 | 12,347,101              | 8,170,300          | 8,644,044          | 473,744     |
| <b>Total Administration</b>  |                         | 33,252,041 | 16,403,032              | 20,670,392         | 21,459,744         | 789,352     |

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# **FINANCE, TREASURY AND PROCUREMENT**

## **OPERATING BUDGET SUMMARY**

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### **Program Description**

The Finance Department is responsible for ensuring the financial and rate stability of the District. This includes developing rates and fees that support the long-term sustainability of the District. Finance maintains the official accounting records of the Irvine Ranch Water District and provides financial management of the District's income and real estate investments, new and existing debt issues, and deferred compensation and Pension/Post Employment (OPEB) Benefit Trust plans. The department provides a wide range of accounting and financial services including payroll, accounts payable, accounts receivable, project accounting, financial analysis, financial reporting, coordination of the District's biennial operating budget and preparation of the Annual Comprehensive Financial Report (ACFR).

The mission of the Finance Department is to safeguard assets and provide financial and accounting services in a timely, reliable, and cost-effective manner that meet the requirements of the District's internal and external customers.

### **Major Goals**

#### **ACCOUNTING AND BUDGETING**

- Prepare and submit accurate financial reports and relevant tax returns to federal, state, county and district agencies within established legal deadlines and requirements;
- Prepare and submit accurate and timely financial reports to the Finance and Personnel Committee and the District's Board of Directors;
- Coordinate the District's annual financial statement audit;
- Prepare the annual ACFR;
- Prepare the Operating Budgets for Board of Director approval including setting adequate rates to ensure long-term financial strength and stability;
- Ensure user rates are proportional with costs of service and support the current rate structure;
- Lead customer noticing effort for Proposition 218 compliance (operating budget, rates and charges);
- Ensure all payments and payroll checks are accurate and timely;
- Transition vendors to electronic payments as appropriate; and,
- Identify and implement enhanced financial reporting and business intelligence capabilities.

#### **LONG-TERM FINANCIAL PLANNING**

- Continue to refine and update the cash flow strategic model to ensure sufficient funding for future capital needs;
- Provide analytical support and analysis to Finance, other departments and outside constituents as requested; and,
- Provide financial modeling for acquisition, financing, construction of major projects and other projects as requested.



# **FINANCE, TREASURY AND PROCUREMENT**

## **OPERATING BUDGET SUMMARY**

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### **INVESTMENTS AND CASH MANAGEMENT**

- Invest District funds in a prudent and professional manner that will provide maximum security of principal, sufficient liquidity to meet working capital requirements and an optimal rate of return;
- Prepare accurate investment reports and the annual investment policy for the Board of Directors and other interested parties within established time frames; and,
- Maintain and enhance short and long-term cash flow models and cash management practices.

### **REAL ESTATE**

- Monitor and report on the performance of all real estate investment assets;
- Manage leasing and related property management activities for all District commercial and residential real estate investments;
- Evaluate development and disposition opportunities of other District properties;
- Assist with acquisition and agricultural leasing activities related to water supply reliability properties; and,
- Resolve outstanding deed, access and other contractual restrictions related to real property.

### **DEBT ISSUANCE AND ADMINISTRATION**

- Issue long-term debt to fund capital projects as needed, and evaluate and recommend alternative opportunities for current District debt issues when appropriate;
- Manage District letters of credit supporting variable rate debt; evaluate new credit support opportunities when appropriate;
- Prepare and submit required continuing disclosure materials for District debt issues to appropriate parties;
- Manage variable rate debt portfolio including periodic remarketings, monitoring remarketing agents of District debt and making adjustments as appropriate; and,
- Execute, manage and report on interest rate swap positions and transactions as appropriate.

### **PENSION/DEFERRED COMPENSATION**

- Maintain and invest Pension Benefits and OPEB Trust assets and report portfolio performance and recommendations to the Retirement Board;
- Evaluate and monitor Trust Advisor performance; recommend changes in advisory services as appropriate; review additional opportunities to optimize Pension and OPEB Benefits Trust performance; and,
- Oversee investment performance, reporting and employee education activities related to the District's deferred compensation plans.

### **PURCHASING**

- Purchase materials, supplies and services in a timely manner with appropriate consideration given to quality and best pricing;
- Process all material/service requests timely and efficiently;
- Optimize Maximo system; maintain appropriate warehouse inventory and review/adjust slow



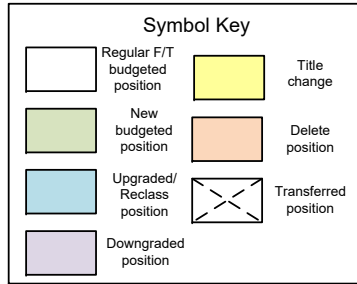
# **FINANCE, TREASURY AND PROCUREMENT**

## **OPERATING BUDGET SUMMARY**

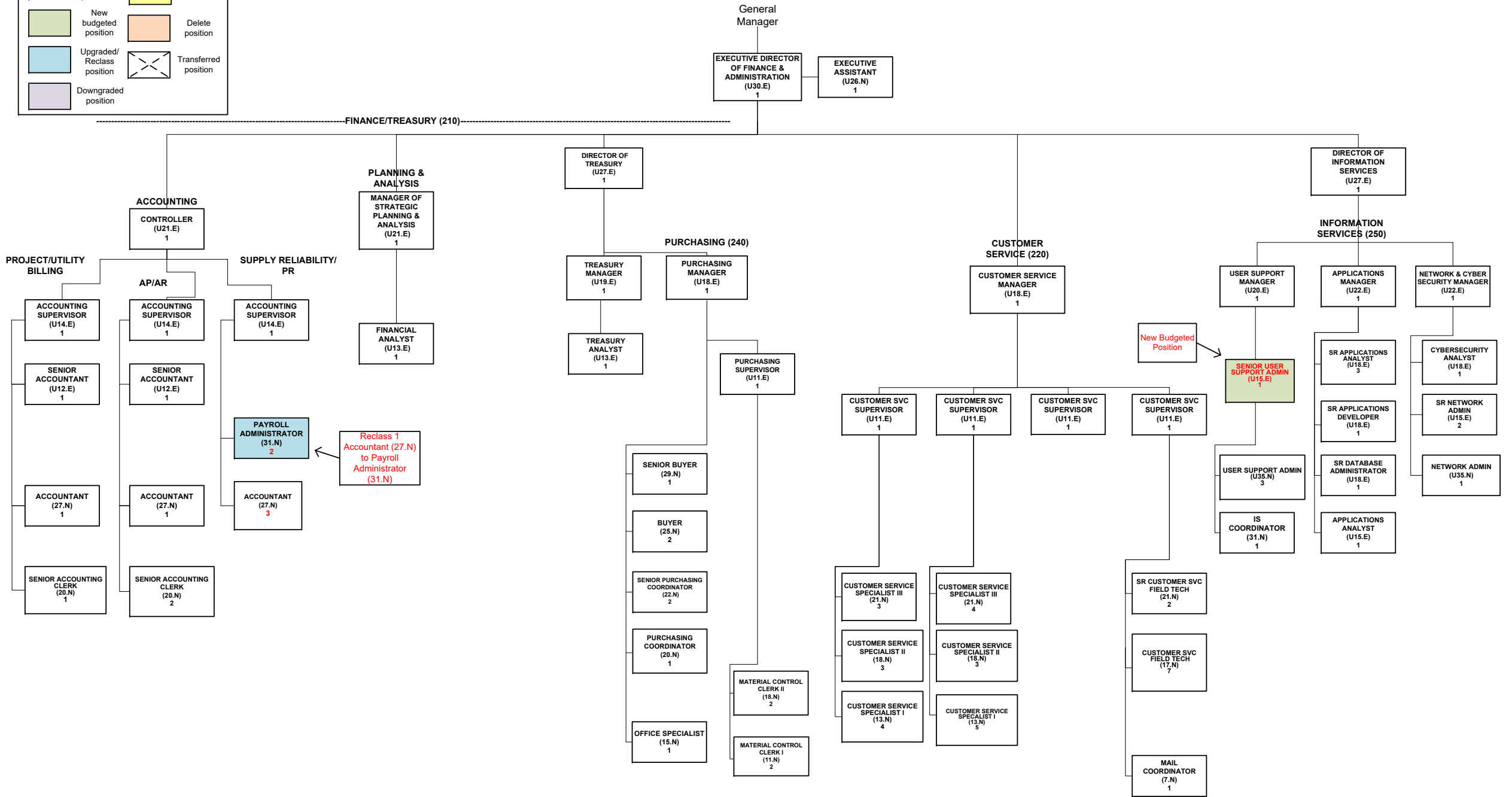
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moving inventory;

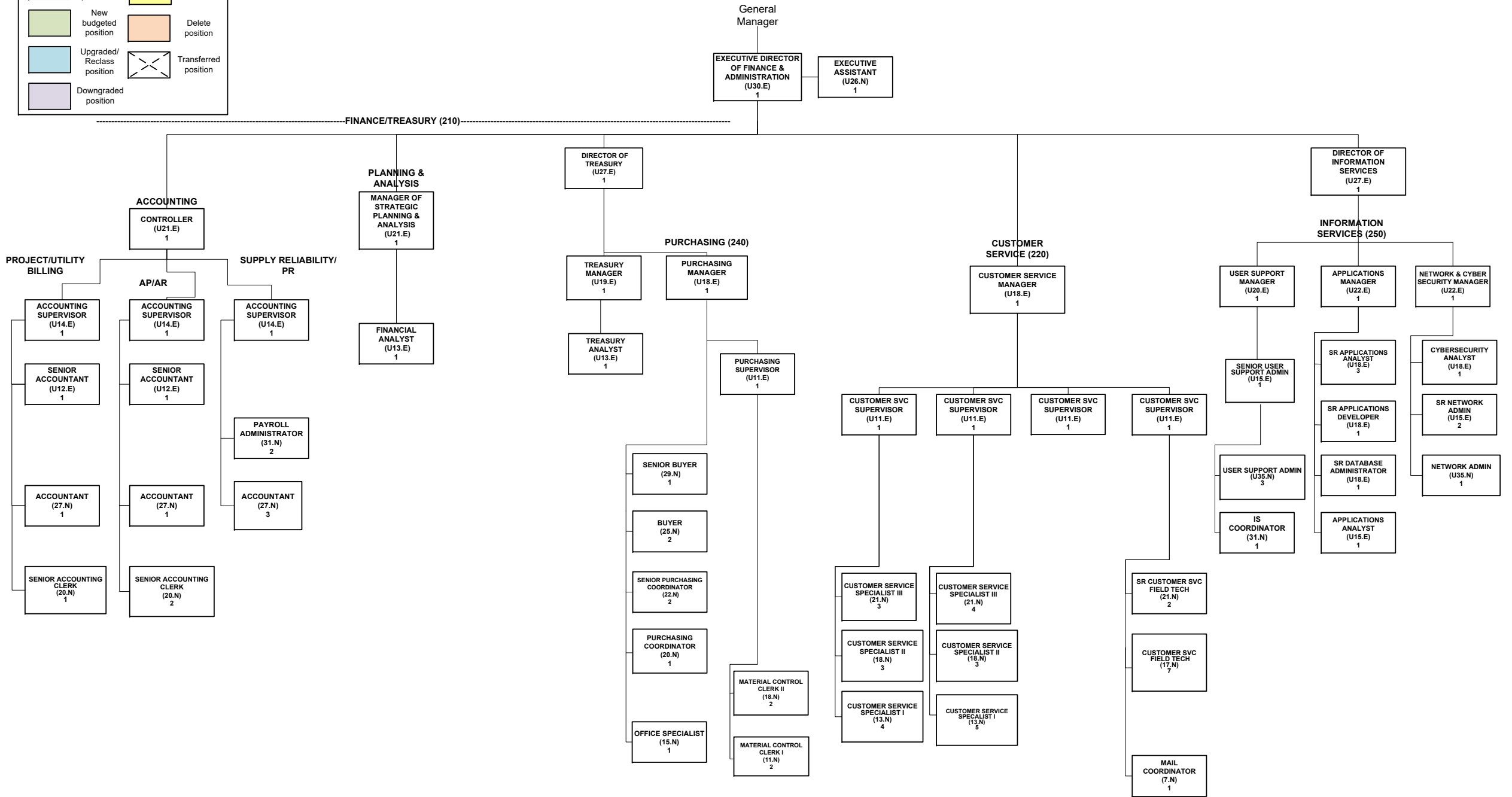
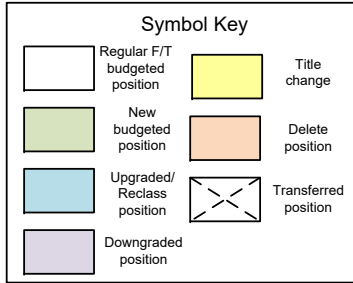
- Streamline business procurement processes and documentation while ensuring appropriate controls on all warehouses;
- Assist with facilitating the design and construction of warehouse expansion space;
- Lead the District record retention efforts;
- Provide ongoing customer support for procurement and inventory systems; and,
- Evaluate and expand participation in cooperative purchasing agreements as appropriate.



**IRVINE RANCH WATER DISTRICT  
FINANCE AND ADMINISTRATION  
FISCAL YEAR 2023-24**



**IRVINE RANCH WATER DISTRICT  
FINANCE AND ADMINISTRATION  
FISCAL YEAR 2024-25**



Irvine Ranch Water District  
**Consolidated Operating Expense Budget for FY 2023-24**

| Fin & Admin Svcs                  |                            | FY 2021-22       | FY 2022-23              | FY2022-23        | FY 2023-24         |                  |
|-----------------------------------|----------------------------|------------------|-------------------------|------------------|--------------------|------------------|
| Dept No                           | Expense Name               | Actual           | Actual thru<br>12/31/22 | Budget           | Proposed<br>Budget | Incr/(Decr)      |
| <u>Finance and Treasury</u>       |                            |                  |                         |                  |                    |                  |
| 210                               | Regular Labor              | 2,559,785        | 1,332,811               | 2,558,400        | 2,972,400          | 414,000          |
| 210                               | Overtime Labor             | 13,906           | 1,293                   | 5,000            | 4,000              | (1,000)          |
| 210                               | Employee Benefits          | 498,899          | 311,974                 | 1,894,700        | 1,750,270          | (144,430)        |
| 210                               | Contract Labor             | 0                | 10,372                  | 52,500           | 27,500             | (25,000)         |
| 210                               | Operating Supplies         | 42,727           | 27,679                  | 27,000           | 42,200             | 15,200           |
| 210                               | Printing                   | 38,058           | 0                       | 25,160           | 4,000              | (21,160)         |
| 210                               | Postage                    | 29,048           | 3,411                   | 67,670           | 7,200              | (60,470)         |
| 210                               | Permits, Licenses and Fees | 1,236            | 1,000                   | 4,300            | 2,000              | (2,300)          |
| 210                               | Office Supplies            | 2,903            | 1,025                   | 7,720            | 3,000              | (4,720)          |
| 210                               | Rep & Maint IRWD           | 0                | 20                      | 0                | 0                  | 0                |
| 210                               | Insurance                  | 2,239,034        | 1,193,245               | 2,768,324        | 3,251,500          | 483,176          |
| 210                               | Accounting Fees            | 100,281          | 36,855                  | 100,000          | 106,000            | 6,000            |
| 210                               | Data Processing            | 46,473           | 40,815                  | 96,620           | 80,000             | (16,620)         |
| 210                               | Personnel Training         | 23,067           | 8,136                   | 50,050           | 55,750             | 5,700            |
| 210                               | Other Professional Fees    | 161,921          | 14,430                  | 281,388          | 196,750            | (84,638)         |
| 210                               | Collection Fees            | 0                | 0                       | 11,000           | 10,000             | (1,000)          |
| 210                               | Alarm and Patrol Services  | 786,197          | 410,909                 | 800,000          | 0                  | (800,000)        |
| 210                               | Other                      | 600,000          | 0                       | 0                | 0                  | 0                |
| <b>Total Finance and Treasury</b> |                            | <b>7,143,535</b> | <b>3,393,976</b>        | <b>8,749,832</b> | <b>8,512,570</b>   | <b>(237,262)</b> |



**Irvine Ranch Water District**  
**Consolidated Operating Expense Budget for FY 2024-25**

| Fin & Admin Svcs                  |                            | FY 2021-22<br>Actual | FY 2022-23<br>Actual thru<br>12/31/23 | FY 2023-24<br>Proposed<br>Budget | FY 2024-25<br>Proposed<br>Budget | Incr/(Decr)    |
|-----------------------------------|----------------------------|----------------------|---------------------------------------|----------------------------------|----------------------------------|----------------|
| <u>Dept No</u>                    | <u>Expense Name</u>        |                      |                                       |                                  |                                  |                |
| <b>Finance and Treasury</b>       |                            |                      |                                       |                                  |                                  |                |
| 210                               | Regular Labor              | 2,559,785            | 1,332,811                             | 2,972,400                        | 3,133,700                        | 161,300        |
| 210                               | Overtime Labor             | 13,906               | 1,293                                 | 4,000                            | 4,000                            | 0              |
| 210                               | Employee Benefits          | 498,899              | 311,974                               | 1,750,270                        | 1,855,540                        | 105,270        |
| 210                               | Contract Labor             | 0                    | 10,372                                | 27,500                           | 27,500                           | 0              |
| 210                               | Operating Supplies         | 42,727               | 27,679                                | 42,200                           | 42,200                           | 0              |
| 210                               | Printing                   | 38,058               | 0                                     | 4,000                            | 48,000                           | 44,000         |
| 210                               | Postage                    | 29,048               | 3,411                                 | 7,200                            | 31,800                           | 24,600         |
| 210                               | Permits, Licenses and Fees | 1,236                | 1,000                                 | 2,000                            | 2,000                            | 0              |
| 210                               | Office Supplies            | 2,903                | 1,025                                 | 3,000                            | 3,000                            | 0              |
| 210                               | Rep & Maint IRWD           | 0                    | 20                                    | 0                                | 0                                | 0              |
| 210                               | Insurance                  | 2,239,034            | 1,193,245                             | 3,251,500                        | 3,697,500                        | 446,000        |
| 210                               | Accounting Fees            | 100,281              | 36,855                                | 106,000                          | 127,000                          | 21,000         |
| 210                               | Data Processing            | 46,473               | 40,815                                | 80,000                           | 82,400                           | 2,400          |
| 210                               | Personnel Training         | 23,067               | 8,136                                 | 55,750                           | 56,980                           | 1,230          |
| 210                               | Other Professional Fees    | 161,921              | 14,430                                | 196,750                          | 200,600                          | 3,850          |
| 210                               | Collection Fees            | 0                    | 0                                     | 10,000                           | 10,000                           | 0              |
| 210                               | Alarm and Patrol Services  | 786,197              | 410,909                               | 0                                | 0                                | 0              |
| 210                               | Other                      | 600,000              | 0                                     | 0                                | 0                                | 0              |
| <b>Total Finance and Treasury</b> |                            | <b>7,143,535</b>     | <b>3,393,976</b>                      | <b>8,512,570</b>                 | <b>9,322,220</b>                 | <b>809,650</b> |

Irvine Ranch Water District  
**Consolidated Operating Expense Budget for FY 2023-24**

| Fin & Admin Svcs        |                         | FY 2021-22 | FY 2022-23              | FY2022-23 | FY 2023-24         |             |
|-------------------------|-------------------------|------------|-------------------------|-----------|--------------------|-------------|
| Dept No                 | Expense Name            | Actual     | Actual thru<br>12/31/22 | Budget    | Proposed<br>Budget | Incr/(Decr) |
| <u>Purchasing</u>       |                         |            |                         |           |                    |             |
| 240                     | Regular Labor           | 959,066    | 497,483                 | 928,000   | 1,089,100          | 161,100     |
| 240                     | Overtime Labor          | 53,765     | 27,437                  | 55,000    | 65,000             | 10,000      |
| 240                     | Employee Benefits       | 119,341    | 76,558                  | 668,500   | 625,140            | (43,360)    |
| 240                     | Operating Supplies      | 330,104    | 102,212                 | 227,400   | 235,000            | 7,600       |
| 240                     | Printing                | 2,943      | 4,769                   | 11,000    | 12,000             | 1,000       |
| 240                     | Postage                 | 4,913      | 2,882                   | 9,000     | 9,000              | 0           |
| 240                     | Office Supplies         | 10,229     | 5,161                   | 10,000    | 10,000             | 0           |
| 240                     | Duplicating Equipment   | 107,879    | 55,621                  | 150,000   | 125,000            | (25,000)    |
| 240                     | Equipment Rental        | 18,990     | 9,784                   | 17,000    | 25,000             | 8,000       |
| 240                     | Personnel Training      | 1,517      | 15,264                  | 16,000    | 15,500             | (500)       |
| 240                     | Other Professional Fees | 2,714      | 0                       | 2,000     | 2,000              | 0           |
| <b>Total Purchasing</b> |                         | 1,611,462  | 797,172                 | 2,093,900 | 2,212,740          | 118,840     |

Irvine Ranch Water District  
**Consolidated Operating Expense Budget for FY 2024-25**

**Fin & Admin Srvcs**

| <u>Dept No</u>          | <u>Expense Name</u>     | FY 2021-22<br>Actual | FY 2022-23<br>Actual thru<br>12/31/23 | FY 2023-24<br>Proposed<br>Budget | FY 2024-25<br>Proposed<br>Budget | Incr/(Decr) |
|-------------------------|-------------------------|----------------------|---------------------------------------|----------------------------------|----------------------------------|-------------|
| <b>Purchasing</b>       |                         |                      |                                       |                                  |                                  |             |
| 240                     | Regular Labor           | 959,066              | 497,483                               | 1,089,100                        | 1,159,200                        | 70,100      |
| 240                     | Overtime Labor          | 53,765               | 27,437                                | 65,000                           | 67,000                           | 2,000       |
| 240                     | Employee Benefits       | 119,341              | 76,558                                | 625,140                          | 671,330                          | 46,190      |
| 240                     | Operating Supplies      | 330,104              | 102,212                               | 235,000                          | 250,000                          | 15,000      |
| 240                     | Printing                | 2,943                | 4,769                                 | 12,000                           | 13,000                           | 1,000       |
| 240                     | Postage                 | 4,913                | 2,882                                 | 9,000                            | 10,000                           | 1,000       |
| 240                     | Office Supplies         | 10,229               | 5,161                                 | 10,000                           | 12,000                           | 2,000       |
| 240                     | Duplicating Equipment   | 107,879              | 55,621                                | 125,000                          | 125,000                          | 0           |
| 240                     | Equipment Rental        | 18,990               | 9,784                                 | 25,000                           | 30,000                           | 5,000       |
| 240                     | Personnel Training      | 1,517                | 15,264                                | 15,500                           | 15,500                           | 0           |
| 240                     | Other Professional Fees | 2,714                | 0                                     | 2,000                            | 2,000                            | 0           |
| <b>Total Purchasing</b> |                         | 1,611,462            | 797,172                               | 2,212,740                        | 2,355,030                        | 142,290     |

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# **CUSTOMER SERVICE**

## **OPERATING BUDGET SUMMARY**

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### **Program Description**

The mission of the Customer Service Department is to provide exceptional customer satisfaction by providing reliable, courteous and efficient service. The Customer Service Department provides utility billing, account support, meter readings and mail distribution services.

### **Major Goals**

#### **CUSTOMER SERVICE**

- Deliver exceptional customer service both internally and externally;
- Coordinate and process all meter reads to ensure accurate billing;
- Provide customers with an accurate bill that is easy to read;
- Review and resolve billing inquiries and adjustments in a timely manner including education of customers on water budgets;
- Receive and process all orders for new service and discontinuation of service;
- Enhance customer communication and payment options through an improved customer web access portal;
- Process new meter applications;
- Process payments for temporary construction meters, fire flow tests, and customer water bills;
- Process variance requests for additional water budgets;
- Respond to field problems (leaks, no water complaints, high/low pressure, water quality, sewer problems, line breaks, etc.) with a sense of urgency;
- Manage delinquent customer accounts and perform shut-offs as required;
- Distribute customer satisfaction surveys and maintain 90% customer satisfaction;
- Remain compliant with all State, Local and Federal laws pertaining to utility billing;
- Ensure that customers have an accurate understanding of the IRWD rate structure;
- Maintain accurate customer data to ensure timely billing and notification;
- Support all District staff through accurate and efficient mail processing and delivery; and,
- Provide Receptionist support to all incoming callers and visitors to the Sand Canyon Offices.

Irvine Ranch Water District  
**Consolidated Operating Expense Budget for FY 2023-24**

| Fin & Admin Svcs              |                         | FY 2021-22 | FY 2022-23              | FY2022-23 | FY 2023-24         |             |
|-------------------------------|-------------------------|------------|-------------------------|-----------|--------------------|-------------|
| Dept No                       | Expense Name            | Actual     | Actual thru<br>12/31/22 | Budget    | Proposed<br>Budget | Incr/(Decr) |
| <u>Customer Service</u>       |                         |            |                         |           |                    |             |
| 220                           | Regular Labor           | 2,269,473  | 1,179,660               | 2,250,300 | 2,736,100          | 485,800     |
| 220                           | Overtime Labor          | 39,759     | 40,403                  | 60,000    | 64,000             | 4,000       |
| 220                           | Employee Benefits       | 197,220    | 100,647                 | 1,607,500 | 1,551,350          | (56,150)    |
| 220                           | Contract Labor          | 26,285     | 4,043                   | 194,000   | 102,000            | (92,000)    |
| 220                           | Operating Supplies      | 7,943      | 6,678                   | 0         | 0                  | 0           |
| 220                           | Printing                | 269,293    | 110,897                 | 220,000   | 264,000            | 44,000      |
| 220                           | Postage                 | 381,973    | 222,403                 | 412,000   | 464,000            | 52,000      |
| 220                           | Office Supplies         | 5,349      | 4,498                   | 7,700     | 8,200              | 500         |
| 220                           | Equipment Rental        | 13,336     | 4,070                   | 12,800    | 13,200             | 400         |
| 220                           | Rep & Maint IRWD        | 411        | 324                     | 0         | 0                  | 0           |
| 220                           | Personnel Training      | 0          | 29                      | 12,500    | 12,500             | 0           |
| 220                           | Other Professional Fees | 622,530    | 327,854                 | 337,800   | 801,500            | 463,700     |
| 220                           | Collection Fees         | 0          | 0                       | 2,000     | 2,200              | 200         |
| 220                           | Contract Meter Reading  | 1,495,160  | 797,111                 | 1,575,000 | 1,630,000          | 55,000      |
| <b>Total Customer Service</b> |                         | 5,328,732  | 2,798,616               | 6,691,600 | 7,649,050          | 957,450     |

Irvine Ranch Water District  
**Consolidated Operating Expense Budget for FY 2024-25**

**Fin & Admin Srvcs**

| <u>Dept No</u>                | <u>Expense Name</u>     | FY 2021-22<br>Actual | FY 2022-23<br>Actual thru<br>12/31/23 | FY 2023-24<br>Proposed<br>Budget | FY 2024-25<br>Proposed<br>Budget | Incr/(Decr)    |
|-------------------------------|-------------------------|----------------------|---------------------------------------|----------------------------------|----------------------------------|----------------|
| <u>Customer Service</u>       |                         |                      |                                       |                                  |                                  |                |
| 220                           | Regular Labor           | 2,269,473            | 1,179,660                             | 2,736,100                        | 2,903,200                        | 167,100        |
| 220                           | Overtime Labor          | 39,759               | 40,403                                | 64,000                           | 66,000                           | 2,000          |
| 220                           | Employee Benefits       | 197,220              | 100,647                               | 1,551,350                        | 1,659,270                        | 107,920        |
| 220                           | Contract Labor          | 26,285               | 4,043                                 | 102,000                          | 102,000                          | 0              |
| 220                           | Operating Supplies      | 7,943                | 6,678                                 | 0                                | 0                                | 0              |
| 220                           | Printing                | 269,293              | 110,897                               | 264,000                          | 272,000                          | 8,000          |
| 220                           | Postage                 | 381,973              | 222,403                               | 464,000                          | 478,000                          | 14,000         |
| 220                           | Office Supplies         | 5,349                | 4,498                                 | 8,200                            | 8,500                            | 300            |
| 220                           | Equipment Rental        | 13,336               | 4,070                                 | 13,200                           | 13,600                           | 400            |
| 220                           | Rep & Maint IRWD        | 411                  | 324                                   | 0                                | 0                                | 0              |
| 220                           | Personnel Training      | 0                    | 29                                    | 12,500                           | 12,500                           | 0              |
| 220                           | Other Professional Fees | 622,530              | 327,854                               | 801,500                          | 794,000                          | (7,500)        |
| 220                           | Collection Fees         | 0                    | 0                                     | 2,200                            | 2,300                            | 100            |
| 220                           | Contract Meter Reading  | 1,495,160            | 797,111                               | 1,630,000                        | 1,660,000                        | 30,000         |
| <b>Total Customer Service</b> |                         | <b>5,328,732</b>     | <b>2,798,616</b>                      | <b>7,649,050</b>                 | <b>7,971,370</b>                 | <b>322,320</b> |

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# **INFORMATION SERVICES**

## **OPERATING BUDGET SUMMARY**

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### **Program Description**

The mission of the Information Services Department is to research, develop, integrate and operate reliable, secure, innovative and cost-effective information systems that enable the District to achieve its current and future business requirements and provide a high level of customer satisfaction. The Information Services Department provides implementation, management and support for the District's information systems, cybersecurity program, and voice and data communications systems.

### **Major Goals**

#### INFORMATION SERVICES

- Implement, manage and maintain IRWD's IT Strategic Plan;
- Facilitate IT Governance for IT activities across the District;
- Provide values-driven, professional and timely IT services to all District staff;
- Ensure District IT assets, including network, applications and data, are maintained to current cybersecurity standards;
- Provide software products and related user support and training for District staff that enable greater productivity;
- Provide Information Services staff with technical training and development opportunities to improve skills and services;
- Provide a reliable and secure network of servers, personal computers, mobile devices, printers and software applications that improve District efficiencies;
- Provide reliable and secure voice, data and wireless communications services;
- Provide technologies for external customers, including bill presentment and payment;
- Pursue and implement appropriate transitions to cloud, innovative and forward-looking technologies;
- Complete scheduled hardware and software upgrades to District servers, personal computers, mobile devices, printers, network equipment and software applications;
- Migrate Micro Focus Open Enterprise Server to Microsoft Active Directory, Windows Server, SharePoint and OneDrive;
- Conduct annual cybersecurity tabletop exercise to test and improve cyber incident response;
- Upgrade and expand the Wi-Fi wireless network system to improve connectivity;
- Implement EZMaxPlanner application to enhance productivity with the Maximo software;
- Monitor industry trends and collaborate with external partners for best practices and opportunities for improved system related technologies.

**Irvine Ranch Water District**  
**Consolidated Operating Expense Budget for FY 2023-24**

| Fin & Admin Svcs                  |                         | FY 2021-22 | FY 2022-23              | FY2022-23  | FY 2023-24         |             |
|-----------------------------------|-------------------------|------------|-------------------------|------------|--------------------|-------------|
| Dept No                           | Expense Name            | Actual     | Actual thru<br>12/31/22 | Budget     | Proposed<br>Budget | Incr/(Decr) |
| <b>Information Services</b>       |                         |            |                         |            |                    |             |
| 250                               | Regular Labor           | 2,252,861  | 1,170,350               | 1,935,000  | 2,617,800          | 682,800     |
| 250                               | Overtime Labor          | 18,164     | 8,036                   | 15,000     | 20,000             | 5,000       |
| 250                               | Employee Benefits       | 282,389    | 193,889                 | 1,386,600  | 1,476,030          | 89,430      |
| 250                               | Contract Labor          | 1,687      | 13,994                  | 245,000    | 42,400             | (202,600)   |
| 250                               | Telecommunication       | 756,438    | 296,741                 | 755,000    | 824,000            | 69,000      |
| 250                               | Operating Supplies      | 212        | 4,664                   | 0          | 5,000              | 5,000       |
| 250                               | Office Supplies         | 148        | 6                       | 1,000      | 1,000              | 0           |
| 250                               | Rep & Maint IRWD        | 344,203    | 159,278                 | 266,700    | 398,000            | 131,300     |
| 250                               | Data Processing         | 4,017,763  | 2,565,614               | 3,982,400  | 4,251,000          | 268,600     |
| 250                               | Personnel Training      | 23,749     | 4,548                   | 67,500     | 70,000             | 2,500       |
| 250                               | Other Professional Fees | 106,705    | 629                     | 240,000    | 225,000            | (15,000)    |
| 250                               | Computer Backup Storage | 7,443      | 677                     | 0          | 0                  | 0           |
| <b>Total Information Services</b> |                         | 7,811,762  | 4,418,424               | 8,894,200  | 9,930,230          | 1,036,030   |
|                                   |                         |            |                         |            |                    |             |
| <b>Total Fin &amp; Admin Svcs</b> |                         | 21,895,491 | 11,408,188              | 26,429,532 | 28,304,590         | 1,875,058   |

**Irvine Ranch Water District**  
**Consolidated Operating Expense Budget for FY 2024-25**

| Fin & Admin Svcs                  |                         | FY 2021-22        | FY 2022-23              | FY 2023-24         | FY 2024-25         |                  |
|-----------------------------------|-------------------------|-------------------|-------------------------|--------------------|--------------------|------------------|
| <u>Dept No</u>                    | <u>Expense Name</u>     | Actual            | Actual thru<br>12/31/23 | Proposed<br>Budget | Proposed<br>Budget | Incr/(Decr)      |
| <u>Information Services</u>       |                         |                   |                         |                    |                    |                  |
| 250                               | Regular Labor           | 2,252,861         | 1,170,350               | 2,617,800          | 2,757,500          | 139,700          |
| 250                               | Overtime Labor          | 18,164            | 8,036                   | 20,000             | 20,000             | 0                |
| 250                               | Employee Benefits       | 282,389           | 193,889                 | 1,476,030          | 1,562,830          | 86,800           |
| 250                               | Contract Labor          | 1,687             | 13,994                  | 42,400             | 44,000             | 1,600            |
| 250                               | Telecommunication       | 756,438           | 296,741                 | 824,000            | 832,000            | 8,000            |
| 250                               | Operating Supplies      | 212               | 4,664                   | 5,000              | 5,000              | 0                |
| 250                               | Office Supplies         | 148               | 6                       | 1,000              | 1,000              | 0                |
| 250                               | Rep & Maint IRWD        | 344,203           | 159,278                 | 398,000            | 410,000            | 12,000           |
| 250                               | Data Processing         | 4,017,763         | 2,565,614               | 4,251,000          | 4,394,000          | 143,000          |
| 250                               | Personnel Training      | 23,749            | 4,548                   | 70,000             | 70,000             | 0                |
| 250                               | Other Professional Fees | 106,705           | 629                     | 225,000            | 275,000            | 50,000           |
| 250                               | Computer Backup Storage | 7,443             | 677                     | 0                  | 0                  | 0                |
| <b>Total Information Services</b> |                         | <b>7,811,762</b>  | <b>4,418,424</b>        | <b>9,930,230</b>   | <b>10,371,330</b>  | <b>441,100</b>   |
| <b>Total Fin &amp; Admin Svcs</b> |                         | <b>21,895,491</b> | <b>11,408,188</b>       | <b>28,304,590</b>  | <b>30,019,950</b>  | <b>1,715,360</b> |

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## **ENGINEERING**

### **OPERATING BUDGET SUMMARY**

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#### **Program Description**

The Engineering Department provides planning, design and construction coordination to develop, and maintain, the water, sewage and recycled water facilities necessary to provide the highest level of service to the customers of the District. The Engineering Department also provides technical support to other District departments.

Treatment and Conveyance: The Treatment and Conveyance group designs and manages construction of major water, sewage and recycled water treatment and transmission facilities necessary to provide the quality and reliability of service to existing and future customers of the District. The group is responsible for the expansion and improvement of water and sewage treatment facilities and the design and construction of wells, pipelines, pump stations, and sewage lift stations.

Infrastructure Planning: The Infrastructure Planning group of the Department is responsible for all master planning, Capital Improvement Program asset management, and the biennial Capital Budget and Long-Term Capital Programs. The Planning group also oversees water, sewage and recycled water demand projections, water supply planning, and preliminary facility planning studies for developing new, and refurbishing existing, facilities. GIS services are provided to other District departments including the development and support of GIS based applications and facility and atlas maps, maintenance of the District's digital record drawings system, and spatial analysis. The group is also responsible for managing the District's real property and rights of way.

Development Services: The Development Services group facilitates the land development process within the District by designing the water, sewage and recycled water facilities necessary to support land development. The construction of these facilities is coordinated to ensure that the facilities are available to meet development schedule requirements. Temporary and interim facilities, when necessary, are also coordinated through this group. The group also reviews developer submittals for quality and conformance with District requirements and assesses and collects appropriate fees.

Inspection Services: The Inspection Services group provides construction inspection services to other groups of the Engineering Department to ensure the highest level of constructed quality. These services include constructability review, pre-construction administration, progress payment processing, field inspection, change order evaluation and processing, and final acceptance coordination. The group is also responsible for coordinating specialized construction support services including surveying and geotechnical testing and inspection.



## **ENGINEERING**

### **OPERATING BUDGET SUMMARY**

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Operations Support and Pipelines: The Operations Support and Pipelines group is responsible for providing engineering support to other District departments. The group generally focuses on the rehabilitation of existing District facilities and provides design and construction management of small to medium size water, sewage and recycled water facilities. This group also includes the process control team that conducts research, develops projects and provides process control and technical support to enhance the performance of the District's domestic and recycled water supply, treatment, distribution, and storage facilities. The process control team also provides similar support to the District's sewage collection/treatment, recycled water and urban runoff treatment systems and supports District-wide regulatory compliance objectives.

Dams and Storage: The Dams and Storage group is responsible for overseeing the District's dam safety program and ensuring compliance with the state's dam safety requirements. The group also manages the design and construction of dam improvements and storage facilities. The storage facilities mainly consist of the recycled water and domestic water tanks located throughout the District.

### **Major Goals**

#### **TREATMENT AND CONVEYANCE**

- MWRP Phase 3 Expansion design;
- Wells 51 and 52 Wellhead Equipping and Offsite Pipelines design;
- Syphon Reservoir Improvements design and construction;
- San Joaquin Recycled Water Reservoir Filtration construction;
- Zone A to Rattlesnake Reservoir Pump Station construction;
- Lake Forest Zone B-C Recycled Water Pump Station construction;
- Sewer Siphons Phase II Improvements design and construction;
- Well OPA-1 PFAS Treatment construction; and
- Well ET-1 and SGU PFAS Treatment construction.

#### **INFRASTRUCTURE PLANNING**

- Implement Capital Improvement Program Asset Management processes and procedures for linear assets;
- Complete detailed condition assessments and prioritize the next five years of repair and replacement projects for pump stations, steel tanks, wells, and lift stations;
- Integrate the Replacement Planning Model with the Financial and Engineering programs;
- Provide Interagency technical support;
- Groundwater Workplan Update; and
- Complete the GIS Master Plan, implement Enterprise Licensing, and initiate GIS infrastructure upgrades.



## **ENGINEERING**

### **OPERATING BUDGET SUMMARY**

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#### DEVELOPMENT SERVICES

- Heritage Fields Infrastructure design and construction;
- Orchard Hills Infrastructure design and construction;
- Orange Heights Infrastructure design and construction; and
- Tustin Legacy Infrastructure design and construction.

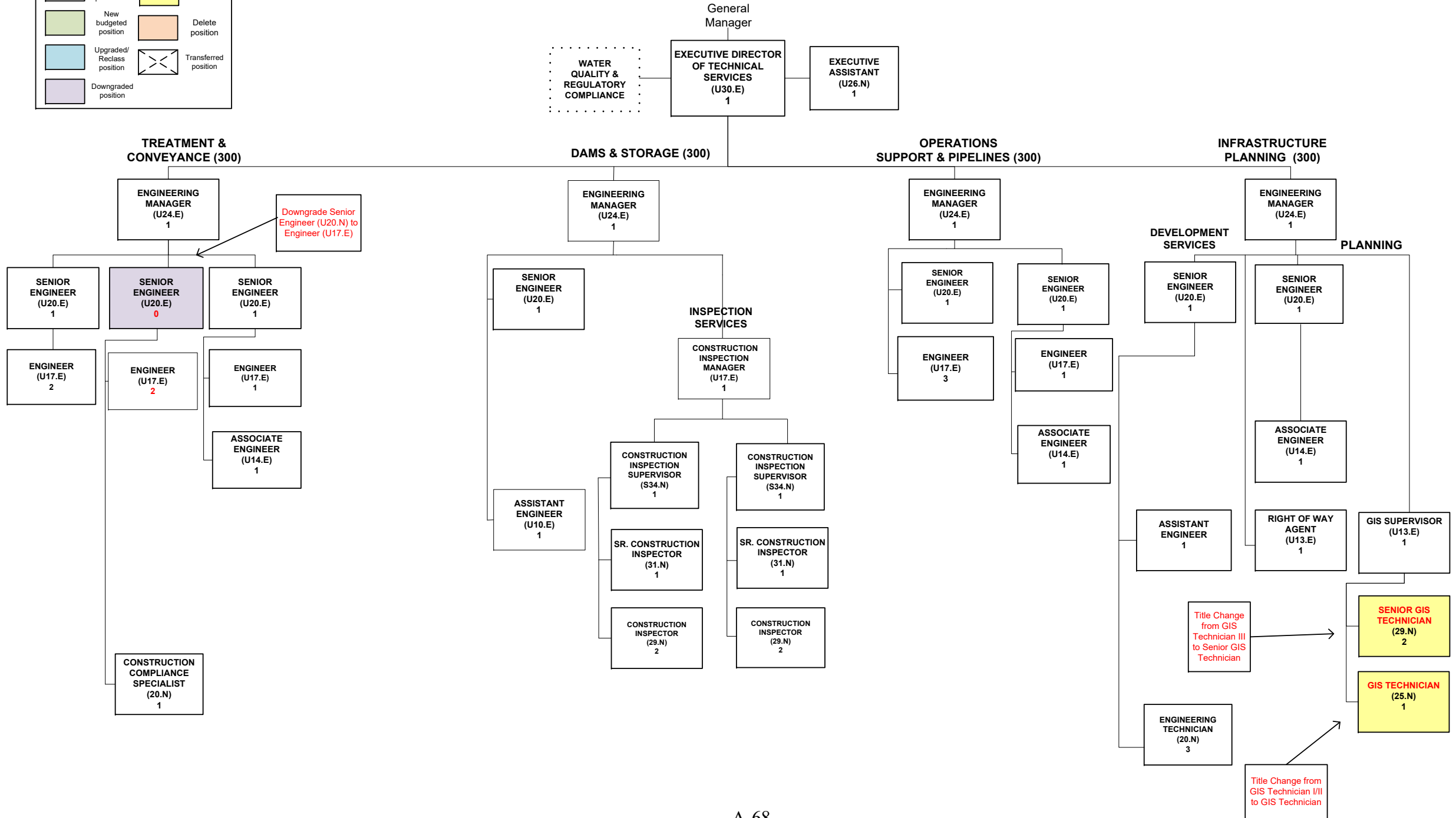
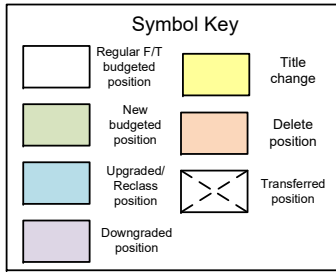
#### OPERATIONS SUPPORT AND PIPELINES

- Santiago Canyon Area Pump Stations Improvements construction;
- Operations Center CNG, Diesel and Gasoline Fueling Facility construction;
- Turtle Rock Reservoir Management System design and construction;
- MWRP Tertiary Treatment Facility Rehabilitation construction;
- Operations Center Warehouse Expansion design and construction;
- Well Rehabilitation design and construction;
- Woodbridge Recycled Water Distribution Pipeline Replacement construction;
- Lake Forest Woods Sewer Improvements design and construction;
- Coastal Zone 2 and Coastal Zone 4 Pump Stations Rehabilitation design and construction;
- Serrano Creek Raw Water Pipeline Replacement design and construction;
- 36-inch Sanitary Sewer Relocation at State Route 133 and San Diego Creek design; and
- Evaluate process control and water quality monitoring data to assess, correct or recommend performance improvement of membrane treatment facilities.

#### DAMS AND STORAGE

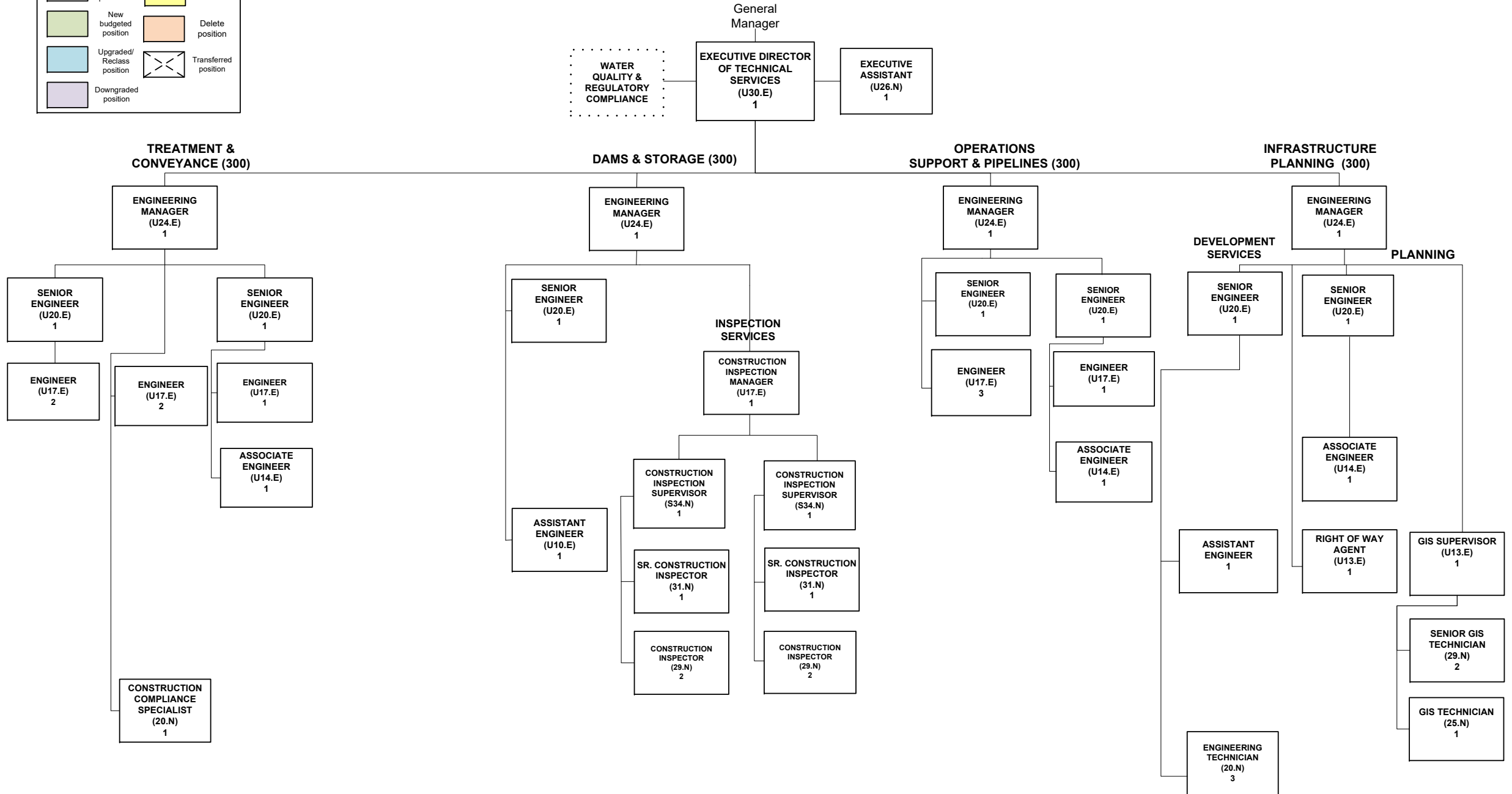
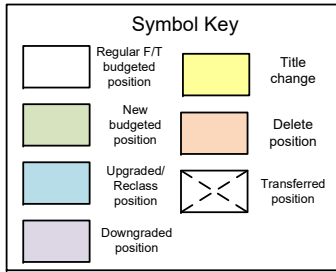
- Santiago Creek Dam Outlet Tower and Spillway Replacement design;
- Fleming Zone 8 Reservoir and Zone 8 to 9 Pump Station construction;
- Emergency Fuel Storage design and construction;
- Rattlesnake Dam Rehabilitation evaluation;
- Sand Canyon Dam Spillway Condition Assessment;
- Dam Instrumentation & Data Acquisition Upgrades;
- Harding Canyon Dam Condition Assessment;
- InSAR Satellite Monitoring and Dam Surveillance Monitoring; and
- Periodic Dam Safety Review.

**IRVINE RANCH WATER DISTRICT  
ENGINEERING  
FISCAL YEAR 2023-24**





**IRVINE RANCH WATER DISTRICT  
ENGINEERING  
FISCAL YEAR 2024-25**



Irvine Ranch Water District  
**Consolidated Operating Expense Budget for FY 2023-24**

| Engineering              |                            | FY 2021-22 | FY 2022-23              | FY2022-23 | FY 2023-24         |             |
|--------------------------|----------------------------|------------|-------------------------|-----------|--------------------|-------------|
| Dept No                  | Expense Name               | Actual     | Actual thru<br>12/31/22 | Budget    | Proposed<br>Budget | Incr/(Decr) |
| <b>Engineering</b>       |                            |            |                         |           |                    |             |
| 300                      | Regular Labor              | 4,729,102  | 2,575,441               | 4,664,000 | 5,689,400          | 1,025,400   |
| 300                      | Overtime Labor             | 168,563    | 72,677                  | 120,000   | 150,000            | 30,000      |
| 300                      | Employee Benefits          | 886,122    | 521,847                 | 3,410,300 | 3,321,950          | (88,350)    |
| 300                      | Contract Labor             | 175,761    | 132,797                 | 170,000   | 253,000            | 83,000      |
| 300                      | Operating Supplies         | 1,573      | 5,163                   | 5,800     | 7,800              | 2,000       |
| 300                      | Printing                   | 11,145     | 10,519                  | 6,000     | 6,200              | 200         |
| 300                      | Postage                    | 1,836      | 1,288                   | 2,000     | 2,000              | 0           |
| 300                      | Permits, Licenses and Fees | 279        | 188                     | 2,000     | 2,000              | 0           |
| 300                      | Office Supplies            | 3,551      | 1,676                   | 9,500     | 4,000              | (5,500)     |
| 300                      | Rep & Maint IRWD           | 0          | 1,651                   | 0         | 0                  | 0           |
| 300                      | Engineering Fees           | 32,969     | 204,603                 | 82,000    | 374,000            | 292,000     |
| 300                      | Personnel Training         | 7,187      | 9,753                   | 28,600    | 24,400             | (4,200)     |
| 300                      | Other Professional Fees    | 2,734      | 472                     | 10,000    | 7,000              | (3,000)     |
| 300                      | Mileage Reimbursement      | 68         | 0                       | 0         | 0                  | 0           |
| <b>Total Engineering</b> |                            | 6,020,890  | 3,538,075               | 8,510,200 | 9,841,750          | 1,331,550   |
| <b>Total Engineering</b> |                            | 6,020,890  | 3,538,075               | 8,510,200 | 9,841,750          | 1,331,550   |

**Irvine Ranch Water District**  
**Consolidated Operating Expense Budget for FY 2024-25**

| Engineering              |                            | FY 2021-22<br>Actual | FY 2022-23<br>Actual thru<br>12/31/23 | FY 2023-24<br>Proposed<br>Budget | FY 2024-25<br>Proposed<br>Budget | Incr/(Decr)    |
|--------------------------|----------------------------|----------------------|---------------------------------------|----------------------------------|----------------------------------|----------------|
| <u>Dept No</u>           | <u>Expense Name</u>        |                      |                                       |                                  |                                  |                |
| <u>Engineering</u>       |                            |                      |                                       |                                  |                                  |                |
| 300                      | Regular Labor              | 4,729,102            | 2,575,441                             | 5,689,400                        | 6,011,300                        | 321,900        |
| 300                      | Overtime Labor             | 168,563              | 72,677                                | 150,000                          | 140,000                          | (10,000)       |
| 300                      | Employee Benefits          | 886,122              | 521,847                               | 3,321,950                        | 3,533,660                        | 211,710        |
| 300                      | Contract Labor             | 175,761              | 132,797                               | 253,000                          | 253,000                          | 0              |
| 300                      | Operating Supplies         | 1,573                | 5,163                                 | 7,800                            | 5,800                            | (2,000)        |
| 300                      | Printing                   | 11,145               | 10,519                                | 6,200                            | 6,200                            | 0              |
| 300                      | Postage                    | 1,836                | 1,288                                 | 2,000                            | 2,000                            | 0              |
| 300                      | Permits, Licenses and Fees | 279                  | 188                                   | 2,000                            | 2,000                            | 0              |
| 300                      | Office Supplies            | 3,551                | 1,676                                 | 4,000                            | 4,000                            | 0              |
| 300                      | Rep & Maint IRWD           | 0                    | 1,651                                 | 0                                | 0                                | 0              |
| 300                      | Engineering Fees           | 32,969               | 204,603                               | 374,000                          | 399,000                          | 25,000         |
| 300                      | Personnel Training         | 7,187                | 9,753                                 | 24,400                           | 24,400                           | 0              |
| 300                      | Other Professional Fees    | 2,734                | 472                                   | 7,000                            | 7,000                            | 0              |
| 300                      | Mileage Reimbursement      | 68                   | 0                                     | 0                                | 0                                | 0              |
| <b>Total Engineering</b> |                            | <b>6,020,890</b>     | <b>3,538,075</b>                      | <b>9,841,750</b>                 | <b>10,388,360</b>                | <b>546,610</b> |
| <b>Total Engineering</b> |                            | <b>6,020,890</b>     | <b>3,538,075</b>                      | <b>9,841,750</b>                 | <b>10,388,360</b>                | <b>546,610</b> |

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# **WATER QUALITY and REGULATORY COMPLIANCE**

## **OPERATING BUDGET SUMMARY**

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### **Program Description**

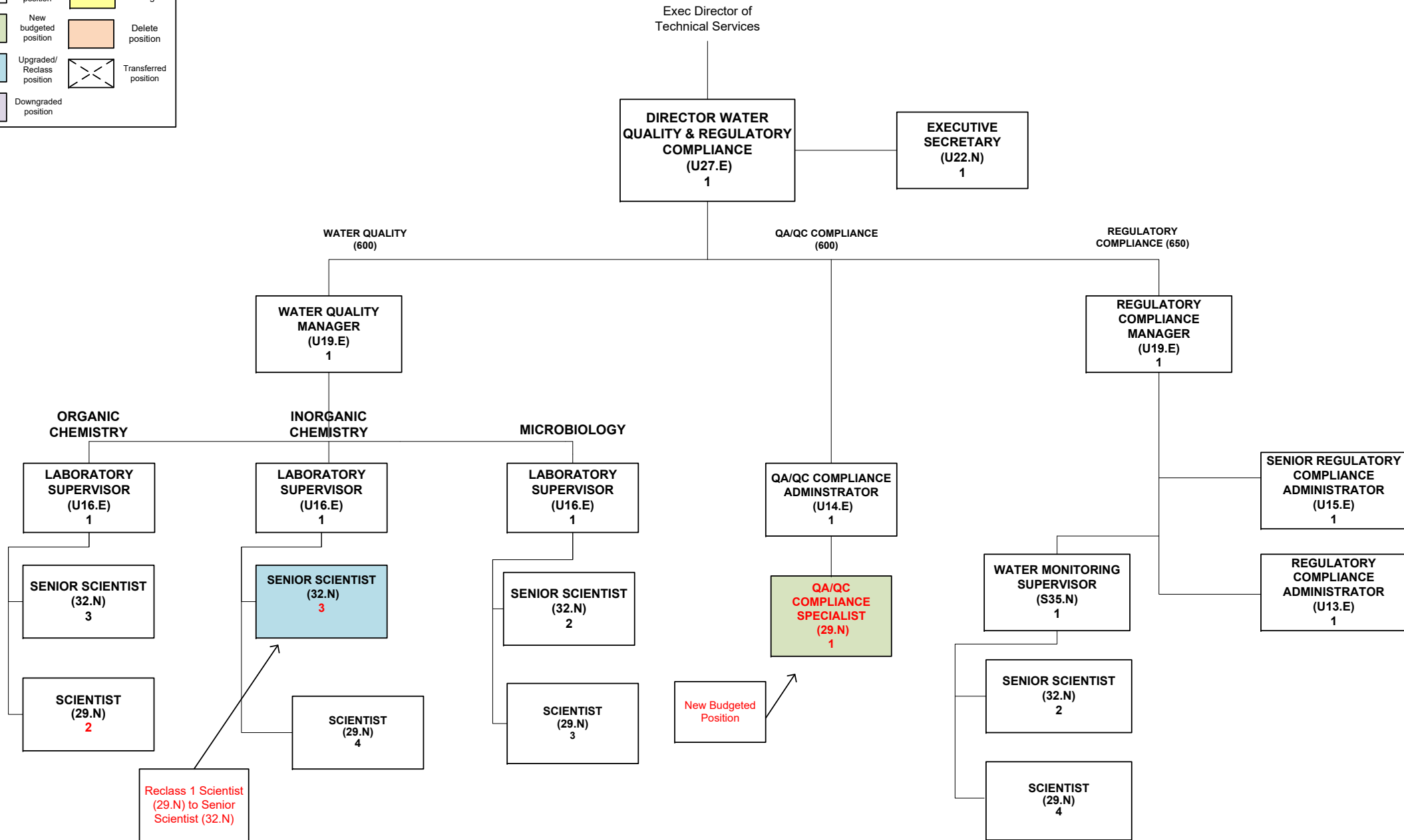
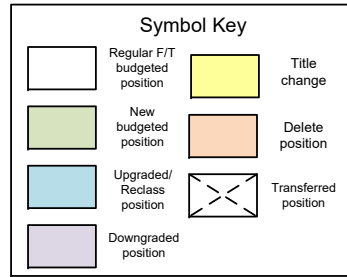
The Water Quality and Regulatory Compliance Department provides laboratory and compliance related support to the operations and maintenance of the domestic and recycled water distribution, sewage collection systems, treatment facilities, and biosolids and energy recovery facilities. The department provides internal and external customers with field and facility monitoring, reproducible data of known and documented quality for regulatory monitoring and reporting, process control, research projects and capital projects utilizing state-of-the-art equipment and certified, analytical methods.

Staff also manages the laboratory safety, asset management and preventative maintenance programs, environmental permitting, reporting and compliance covering water, sewage, biosolids, air, hazardous waste, underground and aboveground storage tanks, universal waste, pretreatment program, and Fats, Oils, and Grease (FOG) program. Staff actively participates in association meetings to stay current with developing rules and policies.

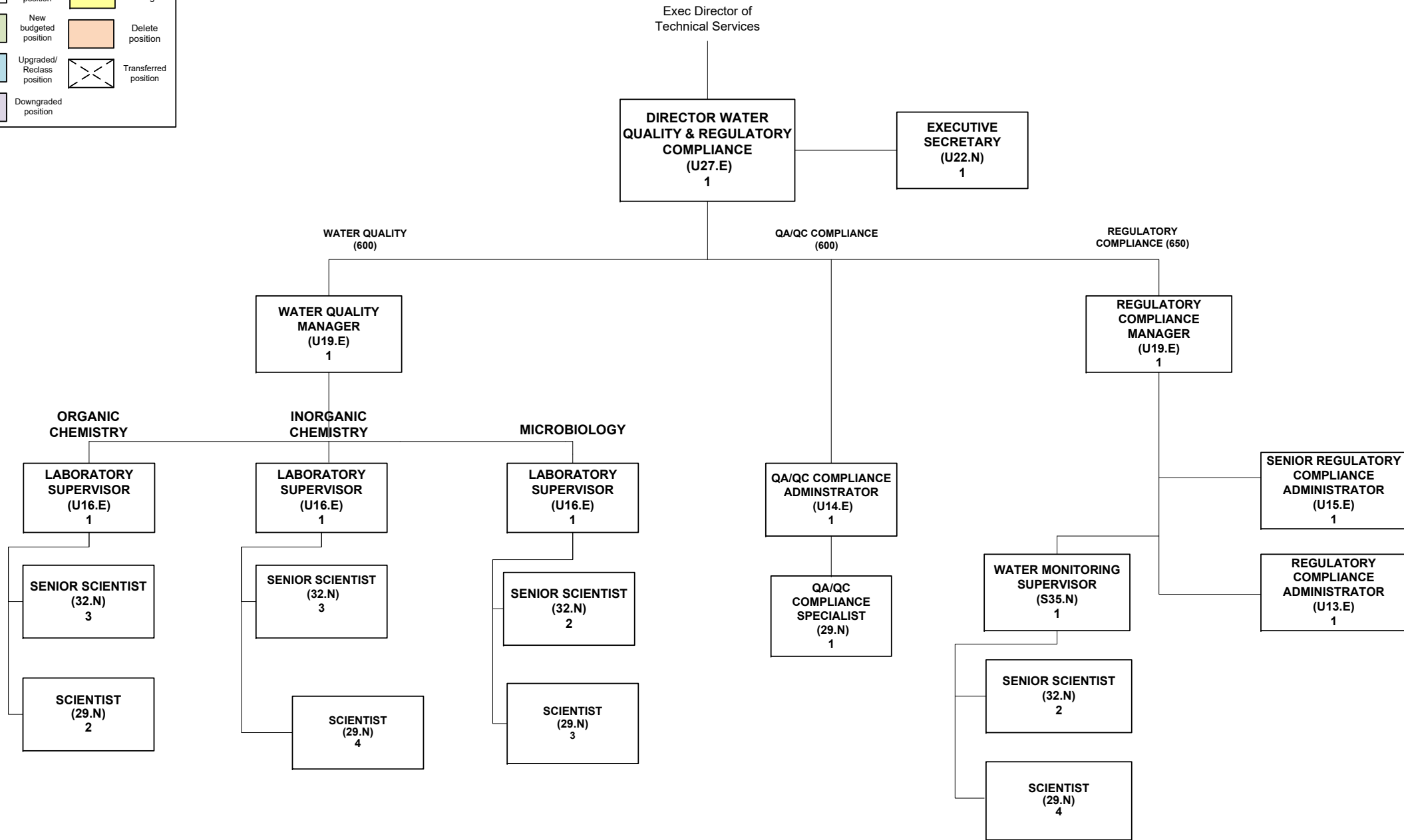
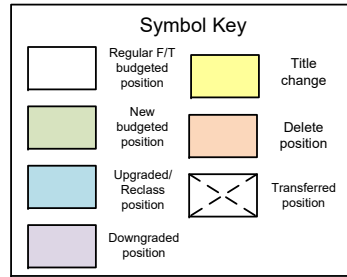
### **Major Goals**

- Perform all monitoring and laboratory analyses to provide data to document the District's compliance status with all applicable federal, state and local environmental laws and regulations and for process control purposes;
- Complete analyses within specified hold times and meet quality control specifications;
- Research and implement new testing methods where justified, specifically when timing, compliance, cost or efficiencies support bringing a method in-house;
- Maintain Environmental Laboratory Accreditation Program (ELAP) certification;
- Implement automation in compliance and process monitoring, laboratory processes, data reporting, quality control measures, staff training, and reporting programs;
- Provide compliance training, oversight, and assistance to other departments;
- Apply for and maintain all necessary permits to comply with environmental regulations;
- Work with Information Services to create an online knowledge base of all environmental compliance requirements and tools to request assistance from the department;
- Write and submit compliance reports in an accurate and timely manner;
- Respond to and negotiate with regulators to resolve compliance matters;
- Coordinate with other agencies and conduct appropriate inspections, monitoring and enforcement regarding industrial discharges under the pretreatment program; and,
- Participate in associations addressing laboratory and regulatory compliance issues.
- Oversee a safe work environment within the water quality laboratory;
- Ensure lab assets are tracked and properly maintained for audit purposes.

**IRVINE RANCH WATER DISTRICT  
WATER QUALITY & REGULATORY COMPLIANCE  
FISCAL YEAR 2023-24**



**IRVINE RANCH WATER DISTRICT  
WATER QUALITY & REGULATORY COMPLIANCE  
FISCAL YEAR 2024-25**



Irvine Ranch Water District  
**Consolidated Operating Expense Budget for FY 2023-24**

| Wtr Quality & Compliance   |                            | FY 2021-22 | FY 2022-23              | FY2022-23 | FY 2023-24         |             |
|----------------------------|----------------------------|------------|-------------------------|-----------|--------------------|-------------|
| Dept No                    | Expense Name               | Actual     | Actual thru<br>12/31/22 | Budget    | Proposed<br>Budget | Incr/(Decr) |
| <b>Water Quality</b>       |                            |            |                         |           |                    |             |
| 600                        | Regular Labor              | 2,092,355  | 1,005,424               | 2,153,200 | 2,637,600          | 484,400     |
| 600                        | Overtime Labor             | 37,784     | 24,048                  | 36,545    | 63,000             | 26,455      |
| 600                        | Employee Benefits          | 267,983    | 161,454                 | 1,570,500 | 1,514,220          | (56,280)    |
| 600                        | Contract Labor             | 133,014    | 172,701                 | 130,012   | 144,800            | 14,788      |
| 600                        | Operating Supplies         | 481,357    | 304,877                 | 515,200   | 623,600            | 108,400     |
| 600                        | Postage                    | 4,413      | 3,210                   | 0         | 5,000              | 5,000       |
| 600                        | Permits, Licenses and Fees | 9,500      | 11,150                  | 13,500    | 20,325             | 6,825       |
| 600                        | Office Supplies            | 4,840      | 2,834                   | 0         | 8,000              | 8,000       |
| 600                        | Equipment Rental           | 1,250      | 1,800                   | 0         | 0                  | 0           |
| 600                        | Rep & Maint IRWD           | 238,577    | 215,141                 | 271,120   | 353,750            | 82,630      |
| 600                        | Engineering Fees           | 230,393    | 109,107                 | 418,200   | 250,000            | (168,200)   |
| 600                        | Personnel Training         | 5,584      | 8,565                   | 41,000    | 41,200             | 200         |
| 600                        | Other Professional Fees    | 2,390      | 601                     | 32,181    | 18,700             | (13,481)    |
| 600                        | Safety                     | 4,885      | 3,181                   | 11,000    | 2,400              | (8,600)     |
| <b>Total Water Quality</b> |                            | 3,514,326  | 2,024,094               | 5,192,458 | 5,682,595          | 490,137     |



Irvine Ranch Water District  
**Consolidated Operating Expense Budget for FY 2024-25**

**Wtr Quality & Compliance**

| <u>Dept No</u>             | <u>Expense Name</u>        | FY 2021-22<br>Actual | FY 2022-23<br>Actual thru<br>12/31/23 | FY 2023-24<br>Proposed<br>Budget | FY 2024-25<br>Proposed<br>Budget | Incr/(Decr)    |
|----------------------------|----------------------------|----------------------|---------------------------------------|----------------------------------|----------------------------------|----------------|
| <b>Water Quality</b>       |                            |                      |                                       |                                  |                                  |                |
| 600                        | Regular Labor              | 2,092,355            | 1,005,424                             | 2,637,600                        | 2,802,600                        | 165,000        |
| 600                        | Overtime Labor             | 37,784               | 24,048                                | 63,000                           | 68,300                           | 5,300          |
| 600                        | Employee Benefits          | 267,983              | 161,454                               | 1,514,220                        | 1,621,800                        | 107,580        |
| 600                        | Contract Labor             | 133,014              | 172,701                               | 144,800                          | 144,800                          | 0              |
| 600                        | Operating Supplies         | 481,357              | 304,877                               | 623,600                          | 681,560                          | 57,960         |
| 600                        | Postage                    | 4,413                | 3,210                                 | 5,000                            | 5,000                            | 0              |
| 600                        | Permits, Licenses and Fees | 9,500                | 11,150                                | 20,325                           | 28,500                           | 8,175          |
| 600                        | Office Supplies            | 4,840                | 2,834                                 | 8,000                            | 8,000                            | 0              |
| 600                        | Equipment Rental           | 1,250                | 1,800                                 | 0                                | 0                                | 0              |
| 600                        | Rep & Maint IRWD           | 238,577              | 215,141                               | 353,750                          | 428,600                          | 74,850         |
| 600                        | Engineering Fees           | 230,393              | 109,107                               | 250,000                          | 260,000                          | 10,000         |
| 600                        | Personnel Training         | 5,584                | 8,565                                 | 41,200                           | 41,200                           | 0              |
| 600                        | Other Professional Fees    | 2,390                | 601                                   | 18,700                           | 33,800                           | 15,100         |
| 600                        | Safety                     | 4,885                | 3,181                                 | 2,400                            | 2,400                            | 0              |
| <b>Total Water Quality</b> |                            | <b>3,514,326</b>     | <b>2,024,094</b>                      | <b>5,682,595</b>                 | <b>6,126,560</b>                 | <b>443,965</b> |

**Irvine Ranch Water District**  
**Consolidated Operating Expense Budget for FY 2023-24**

| Wtr Quality & Compliance                  |                            | FY 2021-22 | FY 2022-23              | FY2022-23 | FY 2023-24         |             |
|---|----------------------------|------------|-------------------------|-----------|--------------------|-------------|
| Dept No                                   | Expense Name               | Actual     | Actual thru<br>12/31/22 | Budget    | Proposed<br>Budget | Incr/(Decr) |
| <u>Regulatory Compliance</u>              |                            |            |                         |           |                    |             |
| 650                                       | Regular Labor              | 898,271    | 435,622                 | 900,000   | 1,075,100          | 175,100     |
| 650                                       | Overtime Labor             | 76,357     | 44,477                  | 102,450   | 130,700            | 28,250      |
| 650                                       | Employee Benefits          | 122,679    | 73,915                  | 649,200   | 609,020            | (40,180)    |
| 650                                       | Contract Labor             | 136,644    | 52,176                  | 108,400   | 105,000            | (3,400)     |
| 650                                       | Operating Supplies         | 79,429     | 44,766                  | 93,697    | 91,209             | (2,488)     |
| 650                                       | Postage                    | 895        | 295                     | 800       | 600                | (200)       |
| 650                                       | Permits, Licenses and Fees | 695,297    | 396,961                 | 750,100   | 799,850            | 49,750      |
| 650                                       | Office Supplies            | 541        | 247                     | 500       | 800                | 300         |
| 650                                       | Rep & Maint Other Agencies | 17,942     | 4,236                   | 25,000    | 13,000             | (12,000)    |
| 650                                       | Rep & Maint IRWD           | 232,079    | 103,368                 | 311,000   | 251,745            | (59,255)    |
| 650                                       | Engineering Fees           | 164,319    | 234,617                 | 402,000   | 254,500            | (147,500)   |
| 650                                       | Personnel Training         | 13,978     | 4,879                   | 23,400    | 20,400             | (3,000)     |
| 650                                       | Other Professional Fees    | 1,332      | 616                     | 13,400    | 5,944              | (7,456)     |
| 650                                       | Safety                     | 169        | 0                       | 1,000     | 1,060              | 60          |
| <b>Total Regulatory Compliance</b>        |                            | 2,439,931  | 1,396,173               | 3,380,947 | 3,358,928          | (22,019)    |
| <b>Total Wtr Quality &amp; Compliance</b> |                            | 5,954,257  | 3,420,267               | 8,573,405 | 9,041,523          | 468,118     |

Irvine Ranch Water District  
**Consolidated Operating Expense Budget for FY 2024-25**

| Wtr Quality & Compliance                  |                            | FY 2021-22<br>Actual | FY 2022-23<br>Actual thru<br>12/31/23 | FY 2023-24<br>Proposed<br>Budget | FY 2024-25<br>Proposed<br>Budget | Incr/(Decr)    |
|---|----------------------------|----------------------|---------------------------------------|----------------------------------|----------------------------------|----------------|
| <u>Dept No</u>                            | <u>Expense Name</u>        |                      |                                       |                                  |                                  |                |
| <u>Regulatory Compliance</u>              |                            |                      |                                       |                                  |                                  |                |
| 650                                       | Regular Labor              | 898,271              | 435,622                               | 1,075,100                        | 1,150,800                        | 75,700         |
| 650                                       | Overtime Labor             | 76,357               | 44,477                                | 130,700                          | 135,700                          | 5,000          |
| 650                                       | Employee Benefits          | 122,679              | 73,915                                | 609,020                          | 657,340                          | 48,320         |
| 650                                       | Contract Labor             | 136,644              | 52,176                                | 105,000                          | 105,300                          | 300            |
| 650                                       | Operating Supplies         | 79,429               | 44,766                                | 91,209                           | 92,134                           | 925            |
| 650                                       | Postage                    | 895                  | 295                                   | 600                              | 600                              | 0              |
| 650                                       | Permits, Licenses and Fees | 695,297              | 396,961                               | 799,850                          | 874,950                          | 75,100         |
| 650                                       | Office Supplies            | 541                  | 247                                   | 800                              | 800                              | 0              |
| 650                                       | Rep & Maint Other Agencies | 17,942               | 4,236                                 | 13,000                           | 9,000                            | (4,000)        |
| 650                                       | Rep & Maint IRWD           | 232,079              | 103,368                               | 251,745                          | 271,894                          | 20,149         |
| 650                                       | Engineering Fees           | 164,319              | 234,617                               | 254,500                          | 259,000                          | 4,500          |
| 650                                       | Personnel Training         | 13,978               | 4,879                                 | 20,400                           | 20,400                           | 0              |
| 650                                       | Other Professional Fees    | 1,332                | 616                                   | 5,944                            | 5,964                            | 20             |
| 650                                       | Safety                     | 169                  | 0                                     | 1,060                            | 1,060                            | 0              |
| <b>Total Regulatory Compliance</b>        |                            | <b>2,439,931</b>     | <b>1,396,173</b>                      | <b>3,358,928</b>                 | <b>3,584,942</b>                 | <b>226,014</b> |
| <b>Total Wtr Quality &amp; Compliance</b> |                            | <b>5,954,257</b>     | <b>3,420,267</b>                      | <b>9,041,523</b>                 | <b>9,711,502</b>                 | <b>669,979</b> |

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# **WATER OPERATIONS**

## **OPERATING BUDGET SUMMARY**

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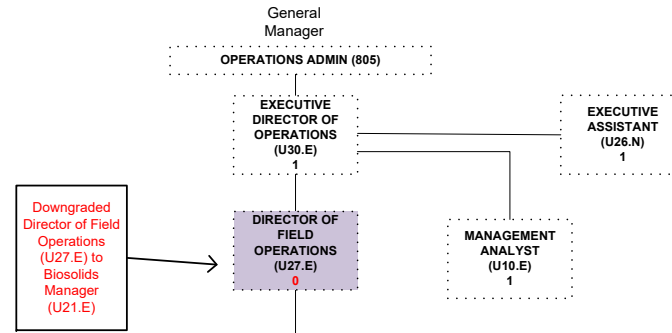
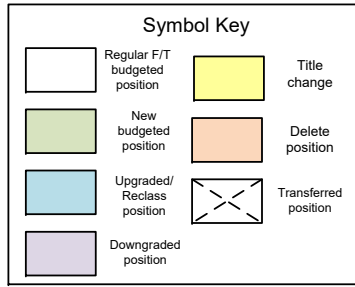
### **Program Description**

The mission of the Water Operations Department is to operate and maintain the District's potable water, recycled water and untreated water systems in an efficient, cost effective and environmentally safe manner that provides a high level of customer satisfaction. These systems include the Dyer Road Wellfield, Deep Aquifer Treatment System, Wells 21/22 Treatment Plant, Irvine Desalter Project (Potable Treatment Plant, Principal Aquifer Plant and Shallow Groundwater Unit) and Baker Water Treatment Plant.

### **Major Goals**

- Maintain 100% compliance with all regulatory permits;
- Meet the Department's adopted Water Operations budget;
- Maintain 3 or more Water Operators at the T-5 and 5 at the D-5 certification level;
- Coordinate with the Finance, Engineering and Planning Departments on water supply and water banking opportunities to optimize cost effective operations;
- Achieve zero lost time accidents;
- Modify as needed and track adopted Key Performance Indicators (KPI) to optimize operational efficiency and cost effectiveness;
- Develop and maintain staff competency through a combination of internal and external training;
- Operate and maintain all treatment and distribution systems to minimize energy consumption;
- Optimize the recycled water long-term storage supply to reduce imported water usage and to prevent diversion from the Michelson Water Reclamation Plant;
- Maintain the Dyer Road Well Field and Deep Aquifer Treatment System domestic water flows in accordance with the Ground Water Pumping Plan staying within the current Basin Pumping Percentage (BPP) of 70%;
- Operate the Irvine Desalter Project (Potable Treatment Plant, Principal Aquifer Plant and Shallow Groundwater Unit) in accordance with the joint agency agreement and submit required reports;
- Ensure efficient operation of all District pumping, dam operation, and reservoir facilities;
- Maintain a high level of customer satisfaction by responding promptly to all customer service requests and repair water leaks with minimal impact to customers; and,
- Respond to Underground Service Alert (USA) tickets and identify water pipelines and sewer infrastructure to prevent damage from construction activities;
- Provide excellent customer service to our internal and external customers by incorporating asset management tools and software into our daily tasks.

**IRVINE RANCH WATER DISTRICT  
WATER OPERATIONS  
FISCAL YEAR 2023-24**

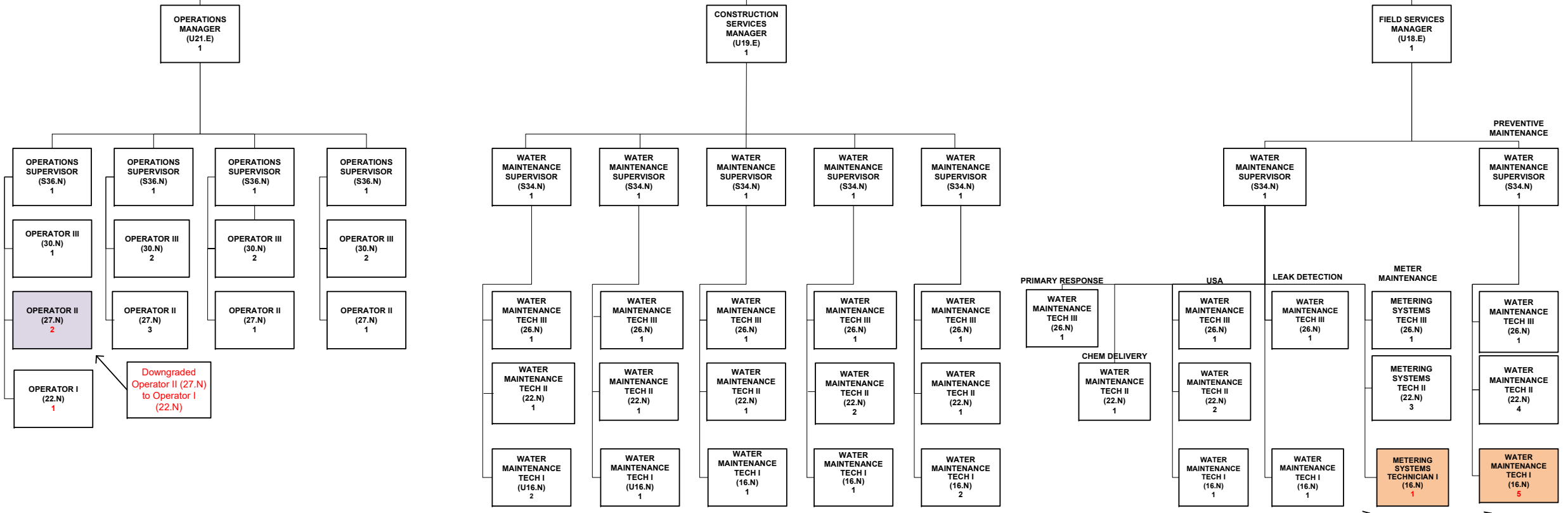


**WATER OPERATIONS**

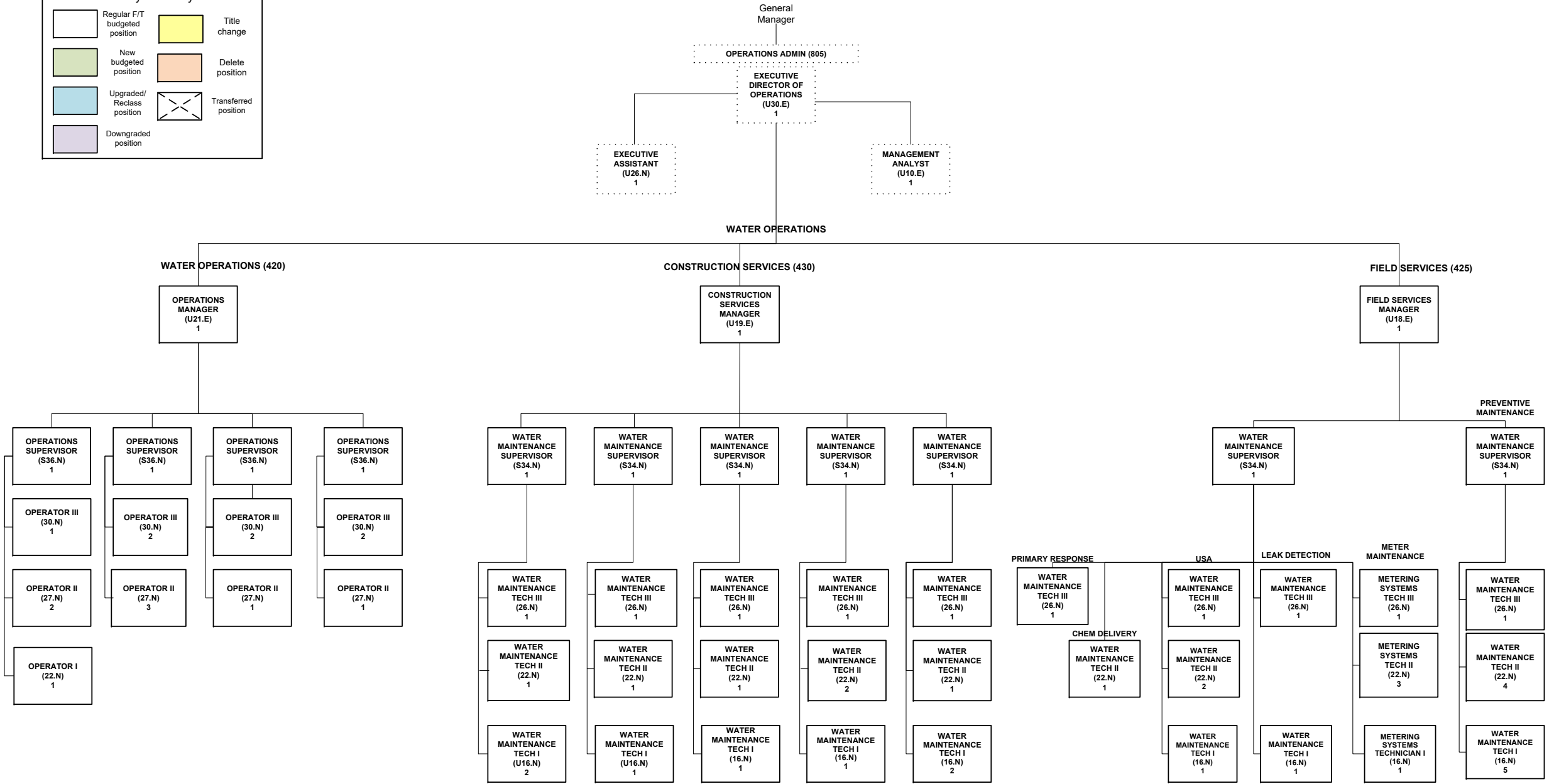
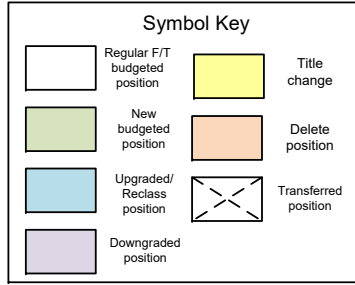
**WATER OPERATIONS (420)**

**CONSTRUCTION SERVICES (430)**

**FIELD SERVICES (425)**



**IRVINE RANCH WATER DISTRICT  
WATER OPERATIONS  
FISCAL YEAR 2024-25**



**Irvine Ranch Water District**  
**Consolidated Operating Expense Budget for FY 2023-24**

| Water Ops                     |                            | FY 2021-22 | FY 2022-23              | FY2022-23  | FY 2023-24         |             |
|-------------------------------|----------------------------|------------|-------------------------|------------|--------------------|-------------|
| Dept No                       | Expense Name               | Actual     | Actual thru<br>12/31/22 | Budget     | Proposed<br>Budget | Incr/(Decr) |
| <u>Water Operations</u>       |                            |            |                         |            |                    |             |
| 420                           | Water                      | 51,597,525 | 25,633,586              | 45,490,612 | 52,982,712         | 7,492,100   |
| 420                           | Regular Labor              | 1,848,322  | 970,473                 | 1,790,000  | 2,135,800          | 345,800     |
| 420                           | Overtime Labor             | 606,337    | 347,526                 | 638,684    | 777,708            | 139,024     |
| 420                           | Employee Benefits          | 267,595    | 178,257                 | 1,295,000  | 1,232,350          | (62,650)    |
| 420                           | Contract Labor             | 0          | 900                     | 0          | 20,000             | 20,000      |
| 420                           | Electricity                | 15,081,545 | 9,036,158               | 13,428,898 | 19,599,474         | 6,170,576   |
| 420                           | Fuel                       | 88,758     | 53,423                  | 76,000     | 66,000             | (10,000)    |
| 420                           | Telecommunication          | 60,295     | 30,571                  | 60,900     | 58,712             | (2,188)     |
| 420                           | Other Utilities            | 63,740     | 53,511                  | 65,300     | 79,700             | 14,400      |
| 420                           | Chemicals                  | 2,139,342  | 1,521,886               | 1,993,495  | 3,259,000          | 1,265,505   |
| 420                           | Operating Supplies         | 94,430     | 66,802                  | 103,300    | 142,800            | 39,500      |
| 420                           | Postage                    | 0          | 0                       | 50         | 0                  | (50)        |
| 420                           | Permits, Licenses and Fees | 307,209    | 104,266                 | 227,950    | 251,848            | 23,898      |
| 420                           | Office Supplies            | 0          | 3                       | 400        | 400                | 0           |
| 420                           | Duplicating Equipment      | 2,602      | 1,260                   | 3,000      | 3,000              | 0           |
| 420                           | Equipment Rental           | 38,228     | 6,841                   | 18,000     | 18,000             | 0           |
| 420                           | Rep & Maint Other Agencies | 1,086,798  | 509,308                 | 930,000    | 1,084,000          | 154,000     |
| 420                           | Rep & Maint IRWD           | 808,706    | 579,775                 | 1,613,990  | 1,737,620          | 123,630     |
| 420                           | Engineering Fees           | 177,341    | 97,124                  | 171,895    | 132,000            | (39,895)    |
| 420                           | Personnel Training         | 270        | 162                     | 6,500      | 22,000             | 15,500      |
| 420                           | Other Professional Fees    | 8,600      | 15                      | 155,200    | 156,500            | 1,300       |
| 420                           | Safety                     | 0          | 0                       | 3,000      | 3,000              | 0           |
| 420                           | Commuter Program           | 0          | 0                       | 200        | 0                  | (200)       |
| <b>Total Water Operations</b> |                            | 74,277,644 | 39,191,845              | 68,072,374 | 83,762,624         | 15,690,250  |



**Irvine Ranch Water District**  
**Consolidated Operating Expense Budget for FY 2024-25**

| Water Ops                     |                            | FY 2021-22<br>Actual | FY 2022-23<br>Actual thru<br>12/31/23 | FY 2023-24<br>Proposed<br>Budget | FY 2024-25<br>Proposed<br>Budget | Incr/(Decr)      |
|-------------------------------|----------------------------|----------------------|---------------------------------------|----------------------------------|----------------------------------|------------------|
| <u>Dept No</u>                | <u>Expense Name</u>        |                      |                                       |                                  |                                  |                  |
| <u>Water Operations</u>       |                            |                      |                                       |                                  |                                  |                  |
| 420                           | Water                      | 51,597,525           | 25,633,586                            | 52,982,712                       | 56,451,632                       | 3,468,920        |
| 420                           | Regular Labor              | 1,848,322            | 970,473                               | 2,135,800                        | 2,267,900                        | 132,100          |
| 420                           | Overtime Labor             | 606,337              | 347,526                               | 777,708                          | 804,893                          | 27,185           |
| 420                           | Employee Benefits          | 267,595              | 178,257                               | 1,232,350                        | 1,316,710                        | 84,360           |
| 420                           | Contract Labor             | 0                    | 900                                   | 20,000                           | 20,700                           | 700              |
| 420                           | Electricity                | 15,081,545           | 9,036,158                             | 19,599,474                       | 21,475,814                       | 1,876,340        |
| 420                           | Fuel                       | 88,758               | 53,423                                | 66,000                           | 47,800                           | (18,200)         |
| 420                           | Telecommunication          | 60,295               | 30,571                                | 58,712                           | 60,765                           | 2,053            |
| 420                           | Other Utilities            | 63,740               | 53,511                                | 79,700                           | 79,700                           | 0                |
| 420                           | Chemicals                  | 2,139,342            | 1,521,886                             | 3,259,000                        | 3,459,065                        | 200,065          |
| 420                           | Operating Supplies         | 94,430               | 66,802                                | 142,800                          | 144,900                          | 2,100            |
| 420                           | Postage                    | 0                    | 0                                     | 0                                | 0                                | 0                |
| 420                           | Permits, Licenses and Fees | 307,209              | 104,266                               | 251,848                          | 260,704                          | 8,856            |
| 420                           | Office Supplies            | 0                    | 3                                     | 400                              | 400                              | 0                |
| 420                           | Duplicating Equipment      | 2,602                | 1,260                                 | 3,000                            | 3,000                            | 0                |
| 420                           | Equipment Rental           | 38,228               | 6,841                                 | 18,000                           | 18,000                           | 0                |
| 420                           | Rep & Maint Other Agencies | 1,086,798            | 509,308                               | 1,084,000                        | 1,111,164                        | 27,164           |
| 420                           | Rep & Maint IRWD           | 808,706              | 579,775                               | 1,737,620                        | 1,814,696                        | 77,076           |
| 420                           | Engineering Fees           | 177,341              | 97,124                                | 132,000                          | 132,000                          | 0                |
| 420                           | Personnel Training         | 270                  | 162                                   | 22,000                           | 22,000                           | 0                |
| 420                           | Other Professional Fees    | 8,600                | 15                                    | 156,500                          | 156,500                          | 0                |
| 420                           | Safety                     | 0                    | 0                                     | 3,000                            | 3,000                            | 0                |
| 420                           | Commuter Program           | 0                    | 0                                     | 0                                | 0                                | 0                |
| <b>Total Water Operations</b> |                            | <b>74,277,644</b>    | <b>39,191,845</b>                     | <b>83,762,624</b>                | <b>89,651,343</b>                | <b>5,888,719</b> |

Irvine Ranch Water District  
**Consolidated Operating Expense Budget for FY 2023-24**

| Water Ops                   |                            | FY 2021-22 | FY 2022-23              | FY2022-23 | FY 2023-24         |             |
|-----------------------------|----------------------------|------------|-------------------------|-----------|--------------------|-------------|
| Dept No                     | Expense Name               | Actual     | Actual thru<br>12/31/22 | Budget    | Proposed<br>Budget | Incr/(Decr) |
| <u>Field Services</u>       |                            |            |                         |           |                    |             |
| 425                         | Regular Labor              | 1,724,877  | 852,043                 | 1,849,600 | 2,229,500          | 379,900     |
| 425                         | Overtime Labor             | 306,429    | 164,152                 | 270,545   | 352,040            | 81,495      |
| 425                         | Employee Benefits          | 202,689    | 147,719                 | 1,346,600 | 1,276,400          | (70,200)    |
| 425                         | Contract Labor             | 67,995     | 7,258                   | 36,000    | 159,904            | 123,904     |
| 425                         | Chemicals                  | 0          | 0                       | 900       | 1,000              | 100         |
| 425                         | Operating Supplies         | 155,148    | 90,574                  | 101,500   | 167,204            | 65,704      |
| 425                         | Permits, Licenses and Fees | 63,541     | 34,739                  | 60,000    | 73,500             | 13,500      |
| 425                         | Rep & Maint IRWD           | 228,797    | 119,287                 | 403,640   | 422,436            | 18,796      |
| 425                         | Personnel Training         | 3,182      | 485                     | 680       | 15,500             | 14,820      |
| 425                         | Other Professional Fees    | 235        | 1,109                   | 0         | 7,500              | 7,500       |
| 425                         | Safety                     | 0          | 22                      | 0         | 0                  | 0           |
| <b>Total Field Services</b> |                            | 2,752,892  | 1,417,390               | 4,069,465 | 4,704,984          | 635,519     |

Irvine Ranch Water District  
**Consolidated Operating Expense Budget for FY 2024-25**

| Water Ops                   |                            | FY 2021-22<br>Actual | FY 2022-23<br>Actual thru<br>12/31/23 | FY 2023-24<br>Proposed<br>Budget | FY 2024-25<br>Proposed<br>Budget | Incr/(Decr)    |
|-----------------------------|----------------------------|----------------------|---------------------------------------|----------------------------------|----------------------------------|----------------|
| <u>Dept No</u>              | <u>Expense Name</u>        |                      |                                       |                                  |                                  |                |
| <u>Field Services</u>       |                            |                      |                                       |                                  |                                  |                |
| 425                         | Regular Labor              | 1,724,877            | 852,043                               | 2,229,500                        | 2,358,900                        | 129,400        |
| 425                         | Overtime Labor             | 306,429              | 164,152                               | 352,040                          | 374,528                          | 22,488         |
| 425                         | Employee Benefits          | 202,689              | 147,719                               | 1,276,400                        | 1,359,860                        | 83,460         |
| 425                         | Contract Labor             | 67,995               | 7,258                                 | 159,904                          | 165,496                          | 5,592          |
| 425                         | Chemicals                  | 0                    | 0                                     | 1,000                            | 1,100                            | 100            |
| 425                         | Operating Supplies         | 155,148              | 90,574                                | 167,204                          | 176,152                          | 8,948          |
| 425                         | Permits, Licenses and Fees | 63,541               | 34,739                                | 73,500                           | 77,548                           | 4,048          |
| 425                         | Rep & Maint IRWD           | 228,797              | 119,287                               | 422,436                          | 453,436                          | 31,000         |
| 425                         | Personnel Training         | 3,182                | 485                                   | 15,500                           | 16,120                           | 620            |
| 425                         | Other Professional Fees    | 235                  | 1,109                                 | 7,500                            | 7,708                            | 208            |
| 425                         | Safety                     | 0                    | 22                                    | 0                                | 0                                | 0              |
| <b>Total Field Services</b> |                            | <b>2,752,892</b>     | <b>1,417,390</b>                      | <b>4,704,984</b>                 | <b>4,990,848</b>                 | <b>285,864</b> |

**Irvine Ranch Water District**  
**Consolidated Operating Expense Budget for FY 2023-24**

| Water Ops                          |                            | FY 2021-22 | FY 2022-23              | FY2022-23  | FY 2023-24         |             |
|------------------------------------|----------------------------|------------|-------------------------|------------|--------------------|-------------|
| Dept No                            | Expense Name               | Actual     | Actual thru<br>12/31/22 | Budget     | Proposed<br>Budget | Incr/(Decr) |
| <b>Construction Services</b>       |                            |            |                         |            |                    |             |
| 430                                | Regular Labor              | 1,678,742  | 988,686                 | 1,842,500  | 2,062,100          | 219,600     |
| 430                                | Overtime Labor             | 401,222    | 230,602                 | 321,000    | 590,000            | 269,000     |
| 430                                | Employee Benefits          | 218,724    | 146,729                 | 1,340,700  | 1,192,660          | (148,040)   |
| 430                                | Contract Labor             | 23,566     | 13,064                  | 40,000     | 65,000             | 25,000      |
| 430                                | Telecommunication          | 97         | 0                       | 0          | 0                  | 0           |
| 430                                | Operating Supplies         | 138,819    | 125,556                 | 172,920    | 208,500            | 35,580      |
| 430                                | Permits, Licenses and Fees | 90,164     | 34,907                  | 113,380    | 97,400             | (15,980)    |
| 430                                | Equipment Rental           | 0          | 0                       | 12,000     | 12,000             | 0           |
| 430                                | Rep & Maint IRWD           | 823,135    | 381,663                 | 548,020    | 661,280            | 113,260     |
| 430                                | Personnel Training         | 4,211      | 7,093                   | 0          | 30,000             | 30,000      |
| 430                                | Other Professional Fees    | 1,031      | 2,550                   | 0          | 9,500              | 9,500       |
| <b>Total Construction Services</b> |                            | 3,379,712  | 1,930,850               | 4,390,520  | 4,928,440          | 537,920     |
|                                    |                            |            |                         |            |                    |             |
| <b>Total Water Ops</b>             |                            | 80,410,248 | 42,540,085              | 76,532,359 | 93,396,048         | 16,863,689  |

Irvine Ranch Water District  
**Consolidated Operating Expense Budget for FY 2024-25**

| Water Ops                          |                            | FY 2021-22<br>Actual | FY 2022-23<br>Actual thru<br>12/31/23 | FY 2023-24<br>Proposed<br>Budget | FY 2024-25<br>Proposed<br>Budget | Incr/(Decr)      |
|------------------------------------|----------------------------|----------------------|---------------------------------------|----------------------------------|----------------------------------|------------------|
| <u>Dept No</u>                     | <u>Expense Name</u>        |                      |                                       |                                  |                                  |                  |
| <u>Construction Services</u>       |                            |                      |                                       |                                  |                                  |                  |
| 430                                | Regular Labor              | 1,678,742            | 988,686                               | 2,062,100                        | 2,182,700                        | 120,600          |
| 430                                | Overtime Labor             | 401,222              | 230,602                               | 590,000                          | 615,600                          | 25,600           |
| 430                                | Employee Benefits          | 218,724              | 146,729                               | 1,192,660                        | 1,272,190                        | 79,530           |
| 430                                | Contract Labor             | 23,566               | 13,064                                | 65,000                           | 66,000                           | 1,000            |
| 430                                | Telecommunication          | 97                   | 0                                     | 0                                | 0                                | 0                |
| 430                                | Operating Supplies         | 138,819              | 125,556                               | 208,500                          | 219,700                          | 11,200           |
| 430                                | Permits, Licenses and Fees | 90,164               | 34,907                                | 97,400                           | 103,400                          | 6,000            |
| 430                                | Equipment Rental           | 0                    | 0                                     | 12,000                           | 12,000                           | 0                |
| 430                                | Rep & Maint IRWD           | 823,135              | 381,663                               | 661,280                          | 692,000                          | 30,720           |
| 430                                | Personnel Training         | 4,211                | 7,093                                 | 30,000                           | 30,000                           | 0                |
| 430                                | Other Professional Fees    | 1,031                | 2,550                                 | 9,500                            | 10,900                           | 1,400            |
| <b>Total Construction Services</b> |                            | <b>3,379,712</b>     | <b>1,930,850</b>                      | <b>4,928,440</b>                 | <b>5,204,490</b>                 | <b>276,050</b>   |
| <b>Total Water Ops</b>             |                            | <b>80,410,248</b>    | <b>42,540,085</b>                     | <b>93,396,048</b>                | <b>99,846,681</b>                | <b>6,450,633</b> |

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# **RECYCLING OPERATIONS**

## **OPERATING BUDGET SUMMARY**

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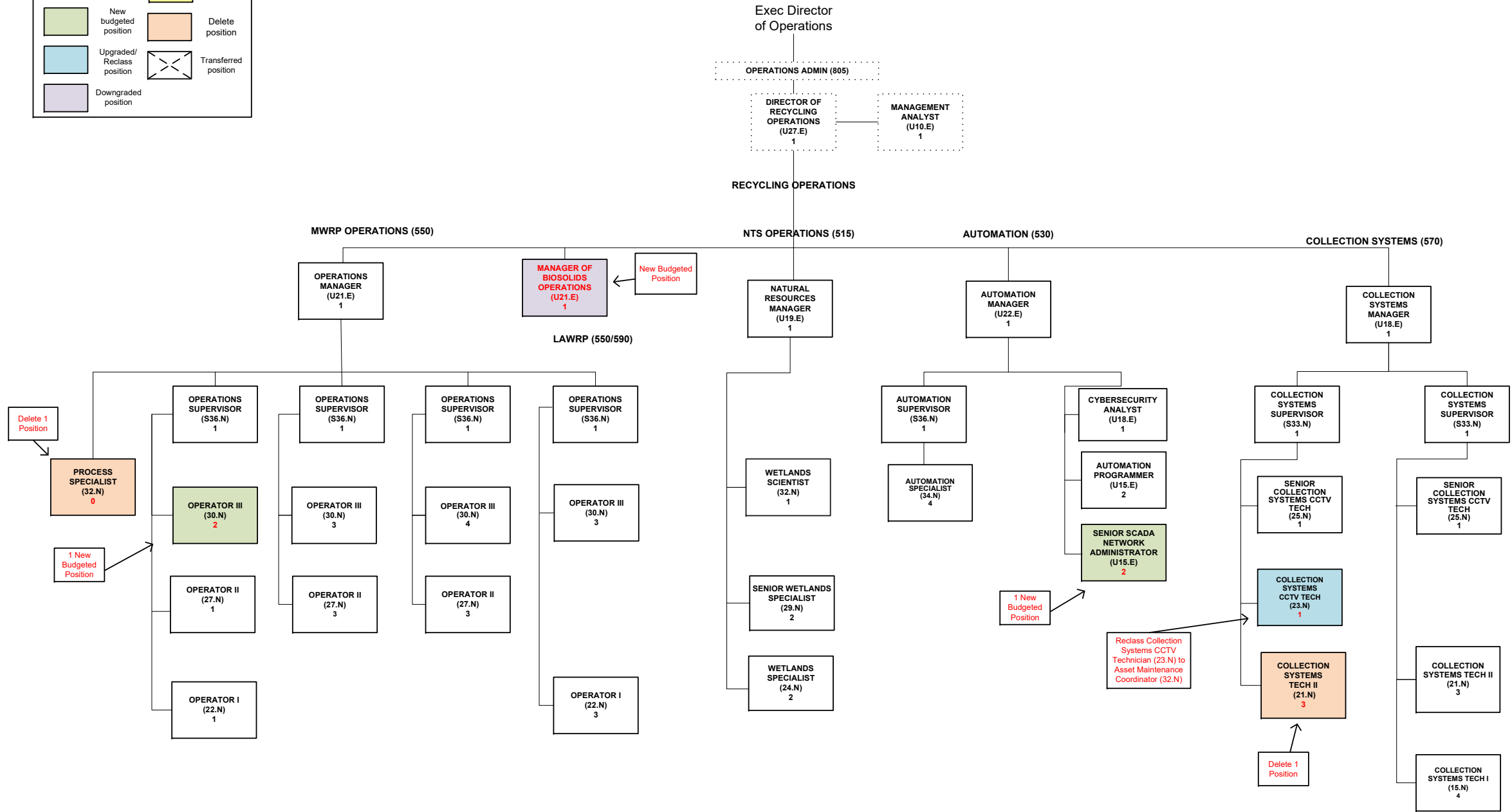
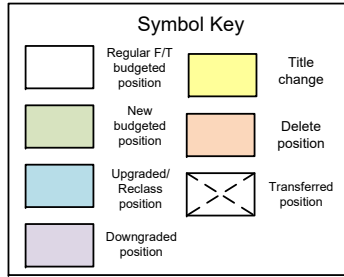
### **Program Description**

The mission of the Recycling Operations Department is to operate the District's resource recovery and collection systems in a regulatory compliant, efficient, and environmentally safe manner that provides the highest level of customer satisfaction. This includes the Michelson Water Recycling Plant (MWRP), Los Alisos Water Recycling Plant (LAWRP), Natural Treatment System (NTS), sewer collection system and administrative management of the Automated Process Control System.

### **Major Goals**

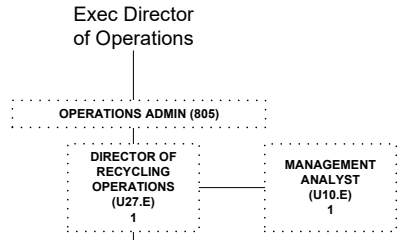
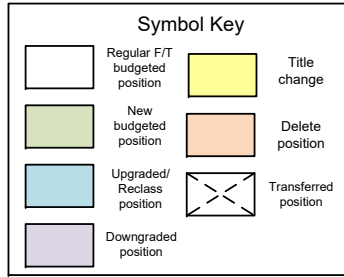
- Meet the Department's adopted Recycled Water Operations budgets;
- Achieve zero lost time accidents;
- Maintain 100% compliance with all regulatory permits;
- Maintain and develop staff competency through a combination of internal and external training;
- Fully utilize Maximo tools and perform all planned and requested tasks through work orders;
- Provide technical support to the asset criticality assessment for the sewer collection system, water recycling facilities, Natural Treatment Systems, and Supervisory Control and Data Acquisition (SCADA) equipment;
- Coordinate with Water Operations to optimize production of recycled water and balance with system storage capacity;
- Evaluate, optimize, and monitor chemical usage using key performance indicators (KPIs) for sewer collection and recycling facilities' systems;
- Implement developed plan to introduce FOG to the IRWD Biosolids facility;
- Maximize beneficial reuse of biogas through energy production and heat recovery systems;
- Maintain agreements with multiple outlets for Biosolids Class A Pellets and Class B cake;
- Complete the pilot study of bioreactor systems to enhance nutrient removal at IRWD NTS basins to bolster existing nutrient offset programs;
- Implement station improvements at El Modena NTS site;
- Schedule, plan, and complete required SCADA software system updates for major IRWD sites (Baker, MWRP Biosolids, and Water OPS);
- Apply advanced cybersecurity standards and technologies to the IRWD Industrial Control System (ICS)/SCADA infrastructure;
- Improve SCADA communication reliability by adding redundant communication paths to critical pump stations, lift stations, reservoirs and treatment plants;
- Update District's Sewer System Management Plan (SSMP) as required per the Sanitary Sewer Systems State Waste Discharge Requirements (SSS WDR);
- Conduct a criticality analysis coupled with asset condition assessments, of all sewage collection and treatment facilities to efficiently prioritize maintenance and replacement activities.

**IRVINE RANCH WATER DISTRICT  
RECYCLING OPERATIONS  
FISCAL YEAR 2023-24**





**IRVINE RANCH WATER DISTRICT  
RECYCLING OPERATIONS  
FISCAL YEAR 2024-25**



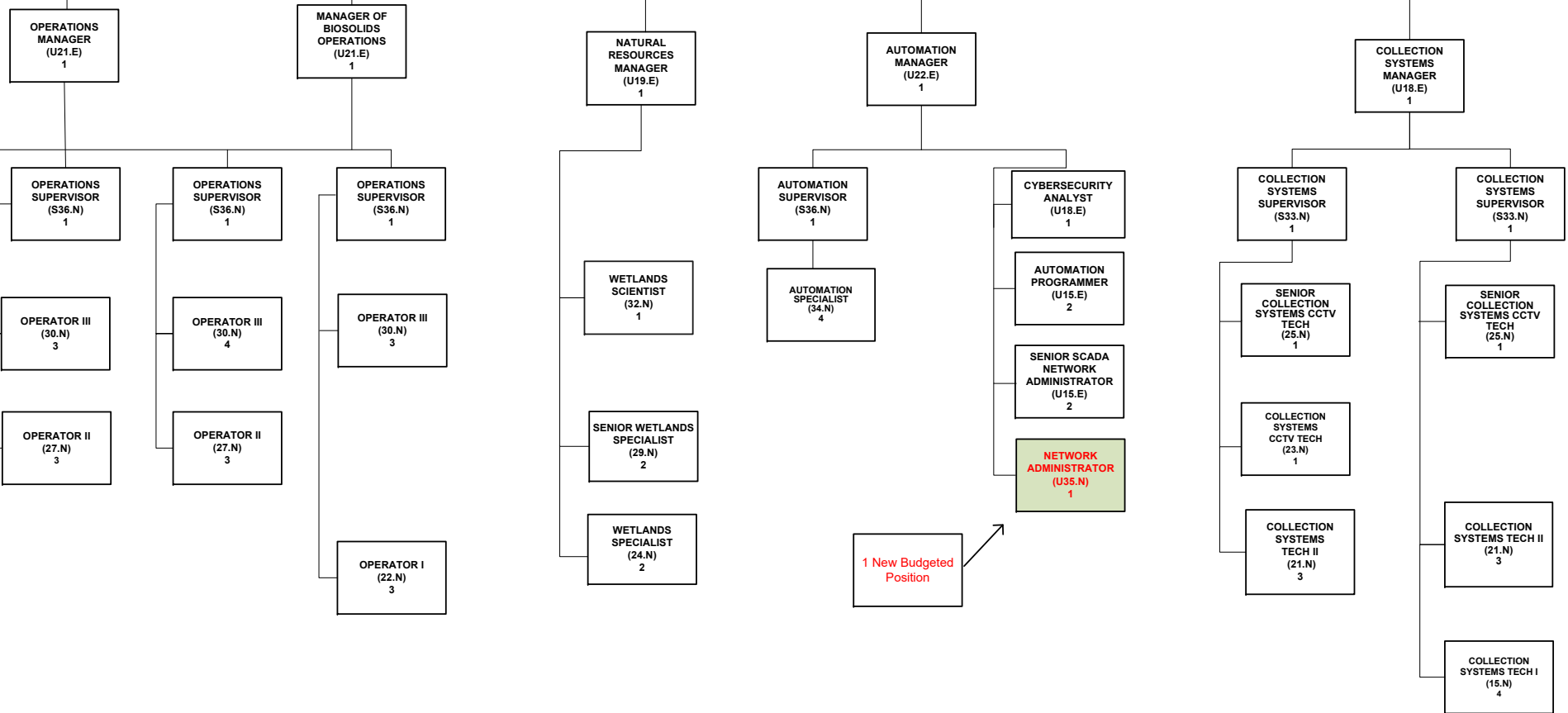
**RECYCLING OPERATIONS**

**MWRP OPERATIONS (550)**

**NTS OPERATIONS (515)**

**AUTOMATION (530)**

**COLLECTION SYSTEMS (570)**



1 New Budgeted Position

1 New Budgeted Position

Irvine Ranch Water District  
**Consolidated Operating Expense Budget for FY 2023-24**

| Sewer & Recycling Ops       |                            | FY 2021-22 | FY 2022-23              | FY2022-23 | FY 2023-24         |             |
|-----------------------------|----------------------------|------------|-------------------------|-----------|--------------------|-------------|
| Dept No                     | Expense Name               | Actual     | Actual thru<br>12/31/22 | Budget    | Proposed<br>Budget | Incr/(Decr) |
| <u>NTS Operations</u>       |                            |            |                         |           |                    |             |
| 515                         | Regular Labor              | 569,247    | 267,062                 | 532,500   | 630,900            | 98,400      |
| 515                         | Overtime Labor             | 2,129      | 693                     | 2,800     | 3,000              | 200         |
| 515                         | Employee Benefits          | 83,918     | 44,339                  | 380,800   | 356,650            | (24,150)    |
| 515                         | Contract Labor             | 59,310     | 1,156                   | 60,000    | 62,400             | 2,400       |
| 515                         | Electricity                | 289,015    | 112,955                 | 171,300   | 295,447            | 124,147     |
| 515                         | Telecommunication          | 11,045     | 40,178                  | 10,200    | 14,000             | 3,800       |
| 515                         | Operating Supplies         | 5,891      | 2,234                   | 14,544    | 18,600             | 4,056       |
| 515                         | Postage                    | 372        | 348                     | 400       | 400                | 0           |
| 515                         | Permits, Licenses and Fees | 2,286      | 2,640                   | 4,944     | 5,000              | 56          |
| 515                         | Equipment Rental           | 9,104      | 5,970                   | 8,200     | 12,000             | 3,800       |
| 515                         | Rep & Maint Other Agencies | 28,751     | 13,346                  | 33,000    | 40,000             | 7,000       |
| 515                         | Rep & Maint IRWD           | 2,250,271  | 857,485                 | 2,512,300 | 2,578,400          | 66,100      |
| 515                         | Engineering Fees           | 25,015     | 0                       | 20,000    | 0                  | (20,000)    |
| 515                         | Personnel Training         | 2,939      | 1,098                   | 15,200    | 18,300             | 3,100       |
| 515                         | Other Professional Fees    | 257,713    | 116,667                 | 216,000   | 300,000            | 84,000      |
| <b>Total NTS Operations</b> |                            | 3,597,004  | 1,466,171               | 3,982,188 | 4,335,097          | 352,909     |

Irvine Ranch Water District  
**Consolidated Operating Expense Budget for FY 2024-25**

**Sewer & Recycling Ops**

| <u>Dept No</u>              | <u>Expense Name</u>        | FY 2021-22<br>Actual | FY 2022-23<br>Actual thru<br>12/31/23 | FY 2023-24<br>Proposed<br>Budget | FY 2024-25<br>Proposed<br>Budget | Incr/(Decr)    |
|-----------------------------|----------------------------|----------------------|---------------------------------------|----------------------------------|----------------------------------|----------------|
| <b>NTS Operations</b>       |                            |                      |                                       |                                  |                                  |                |
| 515                         | Regular Labor              | 569,247              | 267,062                               | 630,900                          | 670,500                          | 39,600         |
| 515                         | Overtime Labor             | 2,129                | 693                                   | 3,000                            | 3,152                            | 152            |
| 515                         | Employee Benefits          | 83,918               | 44,339                                | 356,650                          | 382,540                          | 25,890         |
| 515                         | Contract Labor             | 59,310               | 1,156                                 | 62,400                           | 62,400                           | 0              |
| 515                         | Electricity                | 289,015              | 112,955                               | 295,447                          | 314,355                          | 18,908         |
| 515                         | Telecommunication          | 11,045               | 40,178                                | 14,000                           | 16,000                           | 2,000          |
| 515                         | Operating Supplies         | 5,891                | 2,234                                 | 18,600                           | 22,000                           | 3,400          |
| 515                         | Postage                    | 372                  | 348                                   | 400                              | 500                              | 100            |
| 515                         | Permits, Licenses and Fees | 2,286                | 2,640                                 | 5,000                            | 5,600                            | 600            |
| 515                         | Equipment Rental           | 9,104                | 5,970                                 | 12,000                           | 14,000                           | 2,000          |
| 515                         | Rep & Maint Other Agencies | 28,751               | 13,346                                | 40,000                           | 44,000                           | 4,000          |
| 515                         | Rep & Maint IRWD           | 2,250,271            | 857,485                               | 2,578,400                        | 2,829,120                        | 250,720        |
| 515                         | Engineering Fees           | 25,015               | 0                                     | 0                                | 0                                | 0              |
| 515                         | Personnel Training         | 2,939                | 1,098                                 | 18,300                           | 19,052                           | 752            |
| 515                         | Other Professional Fees    | 257,713              | 116,667                               | 300,000                          | 220,000                          | (80,000)       |
| <b>Total NTS Operations</b> |                            | <b>3,597,004</b>     | <b>1,466,171</b>                      | <b>4,335,097</b>                 | <b>4,603,219</b>                 | <b>268,122</b> |

Irvine Ranch Water District  
**Consolidated Operating Expense Budget for FY 2023-24**

| Sewer & Recycling Ops   |                            | FY 2021-22 | FY 2022-23              | FY2022-23 | FY 2023-24         |             |
|-------------------------|----------------------------|------------|-------------------------|-----------|--------------------|-------------|
| Dept No                 | Expense Name               | Actual     | Actual thru<br>12/31/22 | Budget    | Proposed<br>Budget | Incr/(Decr) |
| <b>Automation</b>       |                            |            |                         |           |                    |             |
| 530                     | Regular Labor              | 1,088,039  | 610,696                 | 946,500   | 1,416,200          | 469,700     |
| 530                     | Overtime Labor             | 102,274    | 56,224                  | 106,524   | 123,876            | 17,352      |
| 530                     | Employee Benefits          | 155,862    | 126,446                 | 664,600   | 787,420            | 122,820     |
| 530                     | Contract Labor             | 0          | 0                       | 0         | 43,200             | 43,200      |
| 530                     | Operating Supplies         | 99,264     | 34,984                  | 83,712    | 85,792             | 2,080       |
| 530                     | Permits, Licenses and Fees | 0          | 0                       | 0         | 17,280             | 17,280      |
| 530                     | Rep & Maint IRWD           | 126,082    | 48,894                  | 93,940    | 97,768             | 3,828       |
| 530                     | Personnel Training         | 599        | 0                       | 0         | 12,500             | 12,500      |
| 530                     | Other Professional Fees    | 37,590     | 13,052                  | 123,600   | 125,000            | 1,400       |
| 530                     | Safety                     | 0          | 27                      | 2,060     | 2,180              | 120         |
| <b>Total Automation</b> |                            | 1,609,709  | 890,323                 | 2,020,936 | 2,711,216          | 690,280     |

Irvine Ranch Water District  
**Consolidated Operating Expense Budget for FY 2024-25**

**Sewer & Recycling Ops**

| <u>Dept No</u>          | <u>Expense Name</u>        | FY 2021-22<br>Actual | FY 2022-23<br>Actual thru<br>12/31/23 | FY 2023-24<br>Proposed<br>Budget | FY 2024-25<br>Proposed<br>Budget | Incr/(Decr)    |
|-------------------------|----------------------------|----------------------|---------------------------------------|----------------------------------|----------------------------------|----------------|
| <u>Automation</u>       |                            |                      |                                       |                                  |                                  |                |
| 530                     | Regular Labor              | 1,088,039            | 610,696                               | 1,416,200                        | 1,609,400                        | 193,200        |
| 530                     | Overtime Labor             | 102,274              | 56,224                                | 123,876                          | 128,212                          | 4,336          |
| 530                     | Employee Benefits          | 155,862              | 126,446                               | 787,420                          | 900,890                          | 113,470        |
| 530                     | Contract Labor             | 0                    | 0                                     | 43,200                           | 44,716                           | 1,516          |
| 530                     | Operating Supplies         | 99,264               | 34,984                                | 85,792                           | 88,792                           | 3,000          |
| 530                     | Permits, Licenses and Fees | 0                    | 0                                     | 17,280                           | 17,884                           | 604            |
| 530                     | Rep & Maint IRWD           | 126,082              | 48,894                                | 97,768                           | 101,200                          | 3,432          |
| 530                     | Personnel Training         | 599                  | 0                                     | 12,500                           | 12,940                           | 440            |
| 530                     | Other Professional Fees    | 37,590               | 13,052                                | 125,000                          | 129,372                          | 4,372          |
| 530                     | Safety                     | 0                    | 27                                    | 2,180                            | 2,260                            | 80             |
| <b>Total Automation</b> |                            | <b>1,609,709</b>     | <b>890,323</b>                        | <b>2,711,216</b>                 | <b>3,035,666</b>                 | <b>324,450</b> |

Irvine Ranch Water District  
**Consolidated Operating Expense Budget for FY 2023-24**

| Sewer & Recycling Ops        |                            | FY 2021-22 | FY 2022-23              | FY2022-23  | FY 2023-24         |             |
|------------------------------|----------------------------|------------|-------------------------|------------|--------------------|-------------|
| Dept No                      | Expense Name               | Actual     | Actual thru<br>12/31/22 | Budget     | Proposed<br>Budget | Incr/(Decr) |
| <u>MWRP Operations</u>       |                            |            |                         |            |                    |             |
| 550                          | Regular Labor              | 1,674,248  | 926,584                 | 1,755,600  | 2,394,400          | 638,800     |
| 550                          | Overtime Labor             | 429,537    | 257,459                 | 204,992    | 477,792            | 272,800     |
| 550                          | Employee Benefits          | 218,529    | 137,941                 | 1,253,700  | 1,340,550          | 86,850      |
| 550                          | Contract Labor             | 0          | 0                       | 165,200    | 276,692            | 111,492     |
| 550                          | Electricity                | 5,213,670  | 2,719,231               | 5,196,299  | 6,068,217          | 871,918     |
| 550                          | Fuel                       | 195,523    | 82,758                  | 340,328    | 502,760            | 162,432     |
| 550                          | Chemicals                  | 1,649,467  | 1,021,932               | 1,697,336  | 3,817,876          | 2,120,540   |
| 550                          | Operating Supplies         | 69,437     | 56,599                  | 57,200     | 122,240            | 65,040      |
| 550                          | Rep & Maint Other Agencies | 4,655,461  | 2,145,422               | 4,120,000  | 4,120,000          | 0           |
| 550                          | Rep & Maint IRWD           | 19,564     | 759                     | 511,000    | 511,000            | 0           |
| 550                          | Personnel Training         | 470        | 300                     | 2,800      | 20,848             | 18,048      |
| 550                          | Other Professional Fees    | 41,870     | 11,709                  | 140,000    | 160,128            | 20,128      |
| 550                          | Safety                     | 37,281     | 605                     | 35,000     | 30,000             | (5,000)     |
| 550                          | Biosolids Disposals        | 1,465,146  | 754,313                 | 323,600    | 1,020,000          | 696,400     |
| 550                          | Other                      | 94,625     | 67,405                  | 111,200    | 143,052            | 31,852      |
| <b>Total MWRP Operations</b> |                            | 15,764,827 | 8,183,019               | 15,914,255 | 21,005,555         | 5,091,300   |

**Irvine Ranch Water District**  
**Consolidated Operating Expense Budget for FY 2024-25**

**Sewer & Recycling Ops**

| <u>Dept No</u>               | <u>Expense Name</u>        | FY 2021-22<br>Actual | FY 2022-23<br>Actual thru<br>12/31/23 | FY 2023-24<br>Proposed<br>Budget | FY 2024-25<br>Proposed<br>Budget | Incr/(Decr)      |
|------------------------------|----------------------------|----------------------|---------------------------------------|----------------------------------|----------------------------------|------------------|
| <b>MWRP Operations</b>       |                            |                      |                                       |                                  |                                  |                  |
| 550                          | Regular Labor              | 1,674,248            | 926,584                               | 2,394,400                        | 2,629,900                        | 235,500          |
| 550                          | Overtime Labor             | 429,537              | 257,459                               | 477,792                          | 494,540                          | 16,748           |
| 550                          | Employee Benefits          | 218,529              | 137,941                               | 1,340,550                        | 1,481,550                        | 141,000          |
| 550                          | Contract Labor             | 0                    | 0                                     | 276,692                          | 286,376                          | 9,684            |
| 550                          | Electricity                | 5,213,670            | 2,719,231                             | 6,068,217                        | 6,456,576                        | 388,359          |
| 550                          | Fuel                       | 195,523              | 82,758                                | 502,760                          | 527,896                          | 25,136           |
| 550                          | Chemicals                  | 1,649,467            | 1,021,932                             | 3,817,876                        | 3,949,884                        | 132,008          |
| 550                          | Operating Supplies         | 69,437               | 56,599                                | 122,240                          | 121,040                          | (1,200)          |
| 550                          | Rep & Maint Other Agencies | 4,655,461            | 2,145,422                             | 4,120,000                        | 4,120,000                        | 0                |
| 550                          | Rep & Maint IRWD           | 19,564               | 759                                   | 511,000                          | 511,000                          | 0                |
| 550                          | Personnel Training         | 470                  | 300                                   | 20,848                           | 21,576                           | 728              |
| 550                          | Other Professional Fees    | 41,870               | 11,709                                | 160,128                          | 180,132                          | 20,004           |
| 550                          | Safety                     | 37,281               | 605                                   | 30,000                           | 31,052                           | 1,052            |
| 550                          | Biosolids Disposals        | 1,465,146            | 754,313                               | 1,020,000                        | 1,055,700                        | 35,700           |
| 550                          | Other                      | 94,625               | 67,405                                | 143,052                          | 148,060                          | 5,008            |
| <b>Total MWRP Operations</b> |                            | <b>15,764,827</b>    | <b>8,183,019</b>                      | <b>21,005,555</b>                | <b>22,015,282</b>                | <b>1,009,727</b> |

Irvine Ranch Water District  
**Consolidated Operating Expense Budget for FY 2023-24**

| Sewer & Recycling Ops            |                         | FY 2021-22 | FY 2022-23              | FY2022-23 | FY 2023-24         |             |
|----------------------------------|-------------------------|------------|-------------------------|-----------|--------------------|-------------|
| Dept No                          | Expense Name            | Actual     | Actual thru<br>12/31/22 | Budget    | Proposed<br>Budget | Incr/(Decr) |
| <u>Collections Systems</u>       |                         |            |                         |           |                    |             |
| 570                              | Regular Labor           | 901,662    | 505,904                 | 1,225,100 | 1,300,600          | 75,500      |
| 570                              | Overtime Labor          | 142,055    | 73,754                  | 146,412   | 156,196            | 9,784       |
| 570                              | Employee Benefits       | 117,922    | 66,729                  | 895,500   | 735,410            | (160,090)   |
| 570                              | Contract Labor          | 63,362     | 22,073                  | 60,000    | 63,600             | 3,600       |
| 570                              | Electricity             | 170,246    | 117,333                 | 201,000   | 302,900            | 101,900     |
| 570                              | Telecommunication       | 10,622     | 5,150                   | 29,600    | 31,376             | 1,776       |
| 570                              | Chemicals               | 312,021    | 186,739                 | 490,000   | 514,500            | 24,500      |
| 570                              | Operating Supplies      | 69,833     | 33,725                  | 77,800    | 82,468             | 4,668       |
| 570                              | Rep & Maint IRWD        | 388,125    | 133,791                 | 673,000   | 737,770            | 64,770      |
| 570                              | Personnel Training      | 2,548      | 1,001                   | 5,000     | 20,300             | 15,300      |
| 570                              | Other Professional Fees | 11,942     | 10,387                  | 100,700   | 107,742            | 7,042       |
| 570                              | Safety                  | 0          | 0                       | 12,000    | 12,720             | 720         |
| <b>Total Collections Systems</b> |                         | 2,190,338  | 1,156,585               | 3,916,112 | 4,065,582          | 149,470     |



Irvine Ranch Water District  
**Consolidated Operating Expense Budget for FY 2024-25**

**Sewer & Recycling Ops**

| <u>Dept No</u>                   | <u>Expense Name</u>     | FY 2021-22<br>Actual | FY 2022-23<br>Actual thru<br>12/31/23 | FY 2023-24<br>Proposed<br>Budget | FY 2024-25<br>Proposed<br>Budget | Incr/(Decr)    |
|----------------------------------|-------------------------|----------------------|---------------------------------------|----------------------------------|----------------------------------|----------------|
| <b>Collections Systems</b>       |                         |                      |                                       |                                  |                                  |                |
| 570                              | Regular Labor           | 901,662              | 505,904                               | 1,300,600                        | 1,375,800                        | 75,200         |
| 570                              | Overtime Labor          | 142,055              | 73,754                                | 156,196                          | 161,828                          | 5,632          |
| 570                              | Employee Benefits       | 117,922              | 66,729                                | 735,410                          | 783,880                          | 48,470         |
| 570                              | Contract Labor          | 63,362               | 22,073                                | 63,600                           | 65,828                           | 2,228          |
| 570                              | Electricity             | 170,246              | 117,333                               | 302,900                          | 322,285                          | 19,385         |
| 570                              | Telecommunication       | 10,622               | 5,150                                 | 31,376                           | 32,476                           | 1,100          |
| 570                              | Chemicals               | 312,021              | 186,739                               | 514,500                          | 532,508                          | 18,008         |
| 570                              | Operating Supplies      | 69,833               | 33,725                                | 82,468                           | 85,356                           | 2,888          |
| 570                              | Rep & Maint IRWD        | 388,125              | 133,791                               | 737,770                          | 763,593                          | 25,823         |
| 570                              | Personnel Training      | 2,548                | 1,001                                 | 20,300                           | 21,012                           | 712            |
| 570                              | Other Professional Fees | 11,942               | 10,387                                | 107,742                          | 111,515                          | 3,773          |
| 570                              | Safety                  | 0                    | 0                                     | 12,720                           | 13,164                           | 444            |
| <b>Total Collections Systems</b> |                         | <b>2,190,338</b>     | <b>1,156,585</b>                      | <b>4,065,582</b>                 | <b>4,269,245</b>                 | <b>203,663</b> |

**Irvine Ranch Water District**  
**Consolidated Operating Expense Budget for FY 2023-24**

| Sewer & Recycling Ops         |                                  | FY 2021-22 | FY 2022-23              | FY2022-23  | FY 2023-24         |             |
|-------------------------------|----------------------------------|------------|-------------------------|------------|--------------------|-------------|
| Dept No                       | Expense Name                     | Actual     | Actual thru<br>12/31/22 | Budget     | Proposed<br>Budget | Incr/(Decr) |
| <b>LAWRP Operations</b>       |                                  |            |                         |            |                    |             |
| 590                           | Regular Labor                    | 340,593    | 146,464                 | 463,400    | 290,500            | (172,900)   |
| 590                           | Overtime Labor                   | 105,509    | 34,486                  | 53,200     | 110,452            | 57,252      |
| 590                           | Employee Benefits                | 58,811     | 37,880                  | 342,400    | 170,560            | (171,840)   |
| 590                           | Electricity                      | 1,115,721  | 736,458                 | 766,500    | 1,499,818          | 733,318     |
| 590                           | Fuel                             | 660        | 195                     | 800        | 1,136              | 336         |
| 590                           | Chemicals                        | 366,840    | 304,126                 | 338,400    | 615,352            | 276,952     |
| 590                           | Operating Supplies               | 4,335      | 1,948                   | 10,500     | 9,900              | (600)       |
| 590                           | Rep & Maint Other Agencies       | 224,450    | 49,288                  | 302,200    | 104,492            | (197,708)   |
| 590                           | Rep & Maint IRWD                 | 6,124      | 10,380                  | 33,748     | 35,292             | 1,544       |
| 590                           | Personnel Training               | 531        | 200                     | 556        | 556                | 0           |
| 590                           | Safety                           | 21         | 0                       | 2,000      | 2,120              | 120         |
| 590                           | Biosolids Disposals              | 29,194     | 15,032                  | 32,000     | 33,920             | 1,920       |
| <b>Total LAWRP Operations</b> |                                  | 2,252,790  | 1,336,458               | 2,345,704  | 2,874,098          | 528,394     |
| <hr/>                         |                                  |            |                         |            |                    |             |
| <b>Total</b>                  | <b>Sewer &amp; Recycling Ops</b> | 25,414,669 | 13,032,556              | 28,179,195 | 34,991,548         | 6,812,353   |

Irvine Ranch Water District  
**Consolidated Operating Expense Budget for FY 2024-25**

| Sewer & Recycling Ops                  |                            | FY 2021-22<br>Actual | FY 2022-23<br>Actual thru<br>12/31/23 | FY 2023-24<br>Proposed<br>Budget | FY 2024-25<br>Proposed<br>Budget | Incr/(Decr)      |
|--|----------------------------|----------------------|---------------------------------------|----------------------------------|----------------------------------|------------------|
| <u>Dept No</u>                         | <u>Expense Name</u>        |                      |                                       |                                  |                                  |                  |
| <u>LAWRP Operations</u>                |                            |                      |                                       |                                  |                                  |                  |
| 590                                    | Regular Labor              | 340,593              | 146,464                               | 290,500                          | 309,500                          | 19,000           |
| 590                                    | Overtime Labor             | 105,509              | 34,486                                | 110,452                          | 114,316                          | 3,864            |
| 590                                    | Employee Benefits          | 58,811               | 37,880                                | 170,560                          | 183,450                          | 12,890           |
| 590                                    | Electricity                | 1,115,721            | 736,458                               | 1,499,818                        | 1,595,805                        | 95,987           |
| 590                                    | Fuel                       | 660                  | 195                                   | 1,136                            | 1,196                            | 60               |
| 590                                    | Chemicals                  | 366,840              | 304,126                               | 615,352                          | 636,888                          | 21,536           |
| 590                                    | Operating Supplies         | 4,335                | 1,948                                 | 9,900                            | 9,900                            | 0                |
| 590                                    | Rep & Maint Other Agencies | 224,450              | 49,288                                | 104,492                          | 108,144                          | 3,652            |
| 590                                    | Rep & Maint IRWD           | 6,124                | 10,380                                | 35,292                           | 36,248                           | 956              |
| 590                                    | Personnel Training         | 531                  | 200                                   | 556                              | 556                              | 0                |
| 590                                    | Safety                     | 21                   | 0                                     | 2,120                            | 2,196                            | 76               |
| 590                                    | Biosolids Disposals        | 29,194               | 15,032                                | 33,920                           | 35,108                           | 1,188            |
| <b>Total LAWRP Operations</b>          |                            | <b>2,252,790</b>     | <b>1,336,458</b>                      | <b>2,874,098</b>                 | <b>3,033,307</b>                 | <b>159,209</b>   |
| <b>Total Sewer &amp; Recycling Ops</b> |                            | <b>25,414,669</b>    | <b>13,032,556</b>                     | <b>34,991,548</b>                | <b>36,956,719</b>                | <b>1,965,171</b> |

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# **MAINTENANCE OPERATIONS**

## **OPERATING BUDGET SUMMARY**

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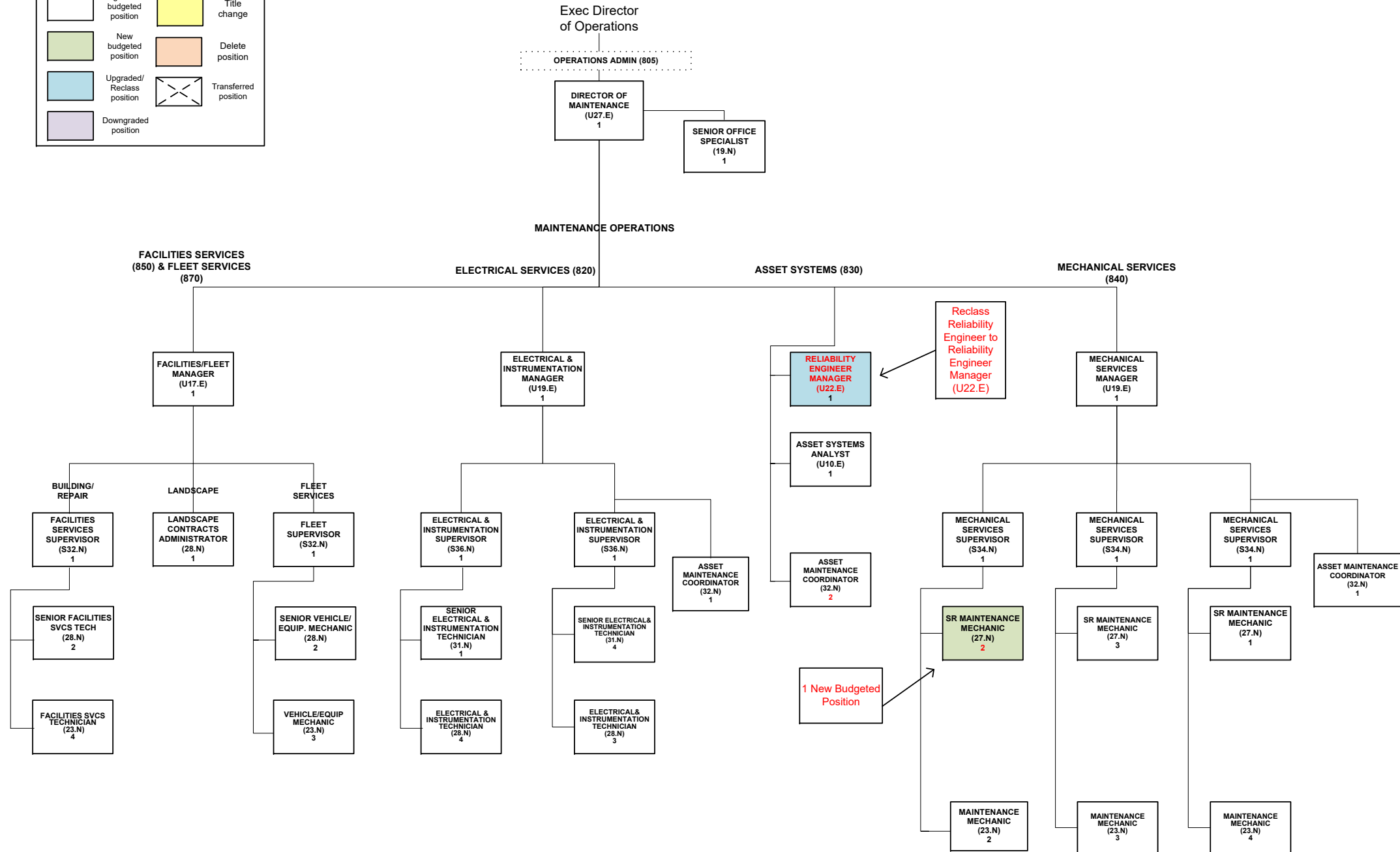
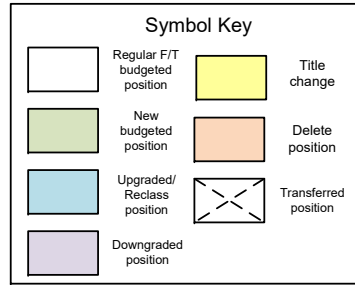
### **Program Description**

The mission of Maintenance Operations is to manage the District's assets to ensure optimal life expectancy, reliability, efficiency and safety goals while providing the highest level of customer satisfaction. Maintenance Operations coordinates the maintenance and repair of the District's electrical, mechanical, instrumentation, fleet and facility assets by utilizing a comprehensive enterprise asset management system to ensure safe, reliable, and cost effective operation.

### **Major Goals**

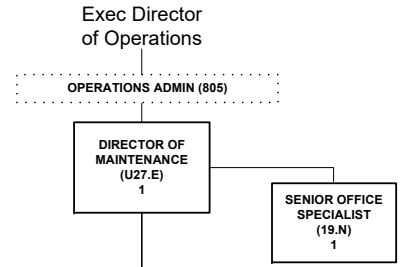
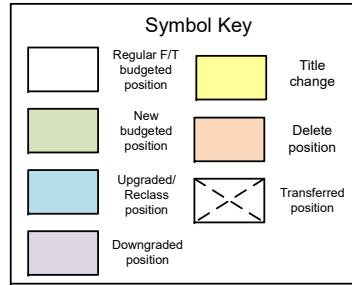
- Meet the Department's adopted Maintenance and General Plant budgets;
- Achieve zero lost time accidents;
- Maintain 100% compliance with all regulatory requirements;
- Identify and track operational Key Performance Indicators (KPIs) to optimize efficiency and cost effectiveness;
- Maintain and develop staff competency through a combination of internal and external training;
- Expand and optimize predictive maintenance processes;
- Maintain all District buildings and facilities to ensure that expected life cycles are reached and building systems function as designed;
- Perform all required maintenance on schedule to provide a safe, reliable, and cost-effective fleet operation;
- Develop annual schedule/plan for complex maintenance of District assets;
- Optimize and expand the Preventative Maintenance Program;
- Perform condition assessment for rehabilitation and reinvestment projects;
- Initiate arc flash studies across District facilities;
- Develop and implement interdepartmental charters for operations and;
- Establish maintenance strategies for water pipelines and sewers and incorporate facility criticality into existing maintenance plans for treatment plants, wells and pump/lift stations.

**IRVINE RANCH WATER DISTRICT  
OPERATIONS ADMINISTRATION & MAINTENANCE  
OPERATIONS  
FISCAL YEAR 2023-24**

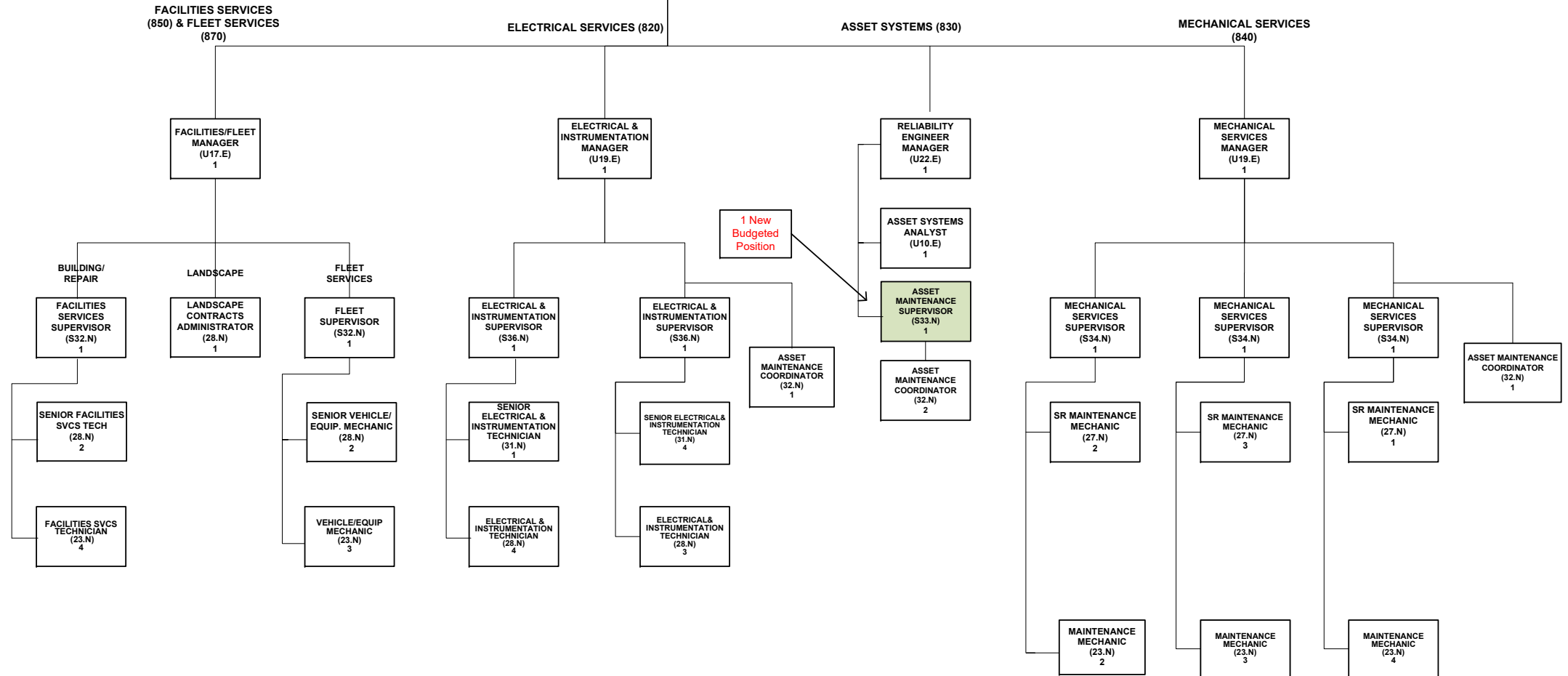


**IRVINE RANCH WATER DISTRICT  
OPERATIONS ADMINISTRATION & MAINTENANCE**

**OPERATIONS  
FISCAL YEAR 2024-25**



**MAINTENANCE OPERATIONS**



Irvine Ranch Water District  
**Consolidated Operating Expense Budget for FY 2023-24**

| Maint. Ops                             |                         | FY 2021-22       | FY 2022-23              | FY2022-23        | FY 2023-24         |                  |
|--|-------------------------|------------------|-------------------------|------------------|--------------------|------------------|
| <u>Dept No</u>                         | <u>Expense Name</u>     | Actual           | Actual thru<br>12/31/22 | Budget           | Proposed<br>Budget | Incr/(Decr)      |
| <u>Operations Administration</u>       |                         |                  |                         |                  |                    |                  |
| 805                                    | Regular Labor           | 991,486          | 491,752                 | 1,023,100        | 1,047,000          | 23,900           |
| 805                                    | Overtime Labor          | 0                | 312                     | 0                | 0                  | 0                |
| 805                                    | Employee Benefits       | 160,761          | 103,901                 | 729,400          | 579,260            | (150,140)        |
| 805                                    | Telecommunication       | 1,615            | 717                     | 4,700            | 1,000              | (3,700)          |
| 805                                    | Operating Supplies      | 3,713            | 6,719                   | 6,750            | 6,400              | (350)            |
| 805                                    | Printing                | 3,825            | 0                       | 1,000            | 800                | (200)            |
| 805                                    | Postage                 | 120              | 0                       | 1,000            | 200                | (800)            |
| 805                                    | Office Supplies         | 9,339            | 3,622                   | 12,000           | 12,000             | 0                |
| 805                                    | Rep & Maint IRWD        | 1,242            | 620                     | 0                | 0                  | 0                |
| 805                                    | Personnel Training      | 22,167           | 20,017                  | 51,000           | 31,500             | (19,500)         |
| 805                                    | Other Professional Fees | 10,748           | 9,475                   | 27,800           | 12,000             | (15,800)         |
| <b>Total Operations Administration</b> |                         | <b>1,205,017</b> | <b>637,133</b>          | <b>1,856,750</b> | <b>1,690,160</b>   | <b>(166,590)</b> |



Irvine Ranch Water District  
**Consolidated Operating Expense Budget for FY 2024-25**

| Maint. Ops                             |                         | FY 2021-22<br>Actual | FY 2022-23<br>Actual thru<br>12/31/23 | FY 2023-24<br>Proposed<br>Budget | FY 2024-25<br>Proposed<br>Budget | Incr/(Decr)    |
|--|-------------------------|----------------------|---------------------------------------|----------------------------------|----------------------------------|----------------|
| <u>Dept No</u>                         | <u>Expense Name</u>     |                      |                                       |                                  |                                  |                |
| <u>Operations Administration</u>       |                         |                      |                                       |                                  |                                  |                |
| 805                                    | Regular Labor           | 991,486              | 491,752                               | 1,047,000                        | 1,097,400                        | 50,400         |
| 805                                    | Overtime Labor          | 0                    | 312                                   | 0                                | 0                                | 0              |
| 805                                    | Employee Benefits       | 160,761              | 103,901                               | 579,260                          | 611,080                          | 31,820         |
| 805                                    | Telecommunication       | 1,615                | 717                                   | 1,000                            | 1,348                            | 348            |
| 805                                    | Operating Supplies      | 3,713                | 6,719                                 | 6,400                            | 8,800                            | 2,400          |
| 805                                    | Printing                | 3,825                | 0                                     | 800                              | 1,000                            | 200            |
| 805                                    | Postage                 | 120                  | 0                                     | 200                              | 300                              | 100            |
| 805                                    | Office Supplies         | 9,339                | 3,622                                 | 12,000                           | 16,200                           | 4,200          |
| 805                                    | Rep & Maint IRWD        | 1,242                | 620                                   | 0                                | 0                                | 0              |
| 805                                    | Personnel Training      | 22,167               | 20,017                                | 31,500                           | 42,200                           | 10,700         |
| 805                                    | Other Professional Fees | 10,748               | 9,475                                 | 12,000                           | 15,752                           | 3,752          |
| <b>Total Operations Administration</b> |                         | <b>1,205,017</b>     | <b>637,133</b>                        | <b>1,690,160</b>                 | <b>1,794,080</b>                 | <b>103,920</b> |

Irvine Ranch Water District  
**Consolidated Operating Expense Budget for FY 2023-24**

| Maint. Ops                       |                         | FY 2021-22 | FY 2022-23              | FY 2022-23 | FY 2023-24         |             |
|----------------------------------|-------------------------|------------|-------------------------|------------|--------------------|-------------|
| Dept No                          | Expense Name            | Actual     | Actual thru<br>12/31/22 | Budget     | Proposed<br>Budget | Incr/(Decr) |
| <b>Electrical Services</b>       |                         |            |                         |            |                    |             |
| 820                              | Regular Labor           | 1,136,392  | 568,100                 | 1,306,100  | 1,576,600          | 270,500     |
| 820                              | Overtime Labor          | 131,003    | 81,056                  | 166,900    | 162,680            | (4,220)     |
| 820                              | Employee Benefits       | 174,758    | 110,881                 | 939,100    | 887,990            | (51,110)    |
| 820                              | Operating Supplies      | 486,345    | 230,053                 | 543,500    | 557,660            | 14,160      |
| 820                              | Office Supplies         | 83         | 0                       | 0          | 220                | 220         |
| 820                              | Rep & Maint IRWD        | 1,574,060  | 460,137                 | 1,356,374  | 1,723,580          | 367,206     |
| 820                              | Personnel Training      | 23,085     | 9,400                   | 0          | 21,200             | 21,200      |
| 820                              | Other Professional Fees | 298        | 15                      | 0          | 3,100              | 3,100       |
| 820                              | Safety                  | 37,833     | 0                       | 18,400     | 18,400             | 0           |
| <b>Total Electrical Services</b> |                         | 3,563,856  | 1,459,642               | 4,330,374  | 4,951,430          | 621,056     |

Irvine Ranch Water District  
**Consolidated Operating Expense Budget for FY 2024-25**

| Maint. Ops                       |                         | FY 2021-22       | FY 2022-23              | FY 2023-24         | FY 2024-25         |                |
|----------------------------------|-------------------------|------------------|-------------------------|--------------------|--------------------|----------------|
| <u>Dept No</u>                   | <u>Expense Name</u>     | Actual           | Actual thru<br>12/31/23 | Proposed<br>Budget | Proposed<br>Budget | Incr/(Decr)    |
| <u>Electrical Services</u>       |                         |                  |                         |                    |                    |                |
| 820                              | Regular Labor           | 1,136,392        | 568,100                 | 1,576,600          | 1,669,300          | 92,700         |
| 820                              | Overtime Labor          | 131,003          | 81,056                  | 162,680            | 168,180            | 5,500          |
| 820                              | Employee Benefits       | 174,758          | 110,881                 | 887,990            | 945,970            | 57,980         |
| 820                              | Operating Supplies      | 486,345          | 230,053                 | 557,660            | 589,120            | 31,460         |
| 820                              | Office Supplies         | 83               | 0                       | 220                | 220                | 0              |
| 820                              | Rep & Maint IRWD        | 1,574,060        | 460,137                 | 1,723,580          | 1,815,800          | 92,220         |
| 820                              | Personnel Training      | 23,085           | 9,400                   | 21,200             | 22,400             | 1,200          |
| 820                              | Other Professional Fees | 298              | 15                      | 3,100              | 3,100              | 0              |
| 820                              | Safety                  | 37,833           | 0                       | 18,400             | 18,400             | 0              |
| <b>Total Electrical Services</b> |                         | <b>3,563,856</b> | <b>1,459,642</b>        | <b>4,951,430</b>   | <b>5,232,490</b>   | <b>281,060</b> |

Irvine Ranch Water District  
**Consolidated Operating Expense Budget for FY 2023-24**

| Maint. Ops                 |                         | FY 2021-22     | FY 2022-23              | FY 2022-23       | FY 2023-24         |                |
|----------------------------|-------------------------|----------------|-------------------------|------------------|--------------------|----------------|
| <u>Dept No</u>             | <u>Expense Name</u>     | Actual         | Actual thru<br>12/31/22 | Budget           | Proposed<br>Budget | Incr/(Decr)    |
| <u>Asset Systems</u>       |                         |                |                         |                  |                    |                |
| 830                        | Regular Labor           | 304,940        | 162,308                 | 460,700          | 581,200            | 120,500        |
| 830                        | Overtime Labor          | 148            | 157                     | 0                | 0                  | 0              |
| 830                        | Employee Benefits       | 36,173         | 15,988                  | 332,300          | 323,820            | (8,480)        |
| 830                        | Operating Supplies      | 74             | 17                      | 1,650            | 2,400              | 750            |
| 830                        | Personnel Training      | 0              | 5,817                   | 12,600           | 26,900             | 14,300         |
| 830                        | Other Professional Fees | 31,870         | 83,294                  | 200,000          | 360,400            | 160,400        |
| <b>Total Asset Systems</b> |                         | <b>373,205</b> | <b>267,581</b>          | <b>1,007,250</b> | <b>1,294,720</b>   | <b>287,470</b> |

Irvine Ranch Water District  
**Consolidated Operating Expense Budget for FY 2024-25**

| Maint. Ops                 |                         | FY 2021-22     | FY 2022-23              | FY 2023-24         | FY 2024-25         |                |
|----------------------------|-------------------------|----------------|-------------------------|--------------------|--------------------|----------------|
| <u>Dept No</u>             | <u>Expense Name</u>     | Actual         | Actual thru<br>12/31/23 | Proposed<br>Budget | Proposed<br>Budget | Incr/(Decr)    |
| <u>Asset Systems</u>       |                         |                |                         |                    |                    |                |
| 830                        | Regular Labor           | 304,940        | 162,308                 | 581,200            | 729,100            | 147,900        |
| 830                        | Overtime Labor          | 148            | 157                     | 0                  | 0                  | 0              |
| 830                        | Employee Benefits       | 36,173         | 15,988                  | 323,820            | 408,070            | 84,250         |
| 830                        | Operating Supplies      | 74             | 17                      | 2,400              | 3,000              | 600            |
| 830                        | Personnel Training      | 0              | 5,817                   | 26,900             | 34,400             | 7,500          |
| 830                        | Other Professional Fees | 31,870         | 83,294                  | 360,400            | 420,400            | 60,000         |
| <b>Total Asset Systems</b> |                         | <b>373,205</b> | <b>267,581</b>          | <b>1,294,720</b>   | <b>1,594,970</b>   | <b>300,250</b> |

Irvine Ranch Water District  
**Consolidated Operating Expense Budget for FY 2023-24**

| Maint. Ops                       |                         | FY 2021-22 | FY 2022-23              | FY2022-23 | FY 2023-24         |             |
|----------------------------------|-------------------------|------------|-------------------------|-----------|--------------------|-------------|
| Dept No                          | Expense Name            | Actual     | Actual thru<br>12/31/22 | Budget    | Proposed<br>Budget | Incr/(Decr) |
| <b>Mechanical Services</b>       |                         |            |                         |           |                    |             |
| 840                              | Regular Labor           | 1,489,397  | 817,330                 | 1,368,100 | 1,952,400          | 584,300     |
| 840                              | Overtime Labor          | 145,842    | 123,323                 | 128,500   | 219,000            | 90,500      |
| 840                              | Employee Benefits       | 135,440    | 87,093                  | 982,800   | 1,113,560          | 130,760     |
| 840                              | Operating Supplies      | 1,067,648  | 232,372                 | 553,000   | 480,000            | (73,000)    |
| 840                              | Rep & Maint IRWD        | 2,122,225  | 1,186,436               | 1,486,000 | 2,249,000          | 763,000     |
| 840                              | Personnel Training      | 1,032      | 501                     | 0         | 23,000             | 23,000      |
| 840                              | Other Professional Fees | 153        | 117                     | 0         | 0                  | 0           |
| 840                              | Safety                  | 28         | 0                       | 5,000     | 0                  | (5,000)     |
| <b>Total Mechanical Services</b> |                         | 4,961,766  | 2,447,172               | 4,523,400 | 6,036,960          | 1,513,560   |

Irvine Ranch Water District  
**Consolidated Operating Expense Budget for FY 2024-25**

| Maint. Ops                       |                         | FY 2021-22       | FY 2022-23              | FY 2023-24         | FY 2024-25         |                |
|----------------------------------|-------------------------|------------------|-------------------------|--------------------|--------------------|----------------|
| <u>Dept No</u>                   | <u>Expense Name</u>     | Actual           | Actual thru<br>12/31/23 | Proposed<br>Budget | Proposed<br>Budget | Incr/(Decr)    |
| <u>Mechanical Services</u>       |                         |                  |                         |                    |                    |                |
| 840                              | Regular Labor           | 1,489,397        | 817,330                 | 1,952,400          | 2,068,200          | 115,800        |
| 840                              | Overtime Labor          | 145,842          | 123,323                 | 219,000            | 229,360            | 10,360         |
| 840                              | Employee Benefits       | 135,440          | 87,093                  | 1,113,560          | 1,185,670          | 72,110         |
| 840                              | Operating Supplies      | 1,067,648        | 232,372                 | 480,000            | 500,600            | 20,600         |
| 840                              | Rep & Maint IRWD        | 2,122,225        | 1,186,436               | 2,249,000          | 2,344,300          | 95,300         |
| 840                              | Personnel Training      | 1,032            | 501                     | 23,000             | 23,800             | 800            |
| 840                              | Other Professional Fees | 153              | 117                     | 0                  | 0                  | 0              |
| 840                              | Safety                  | 28               | 0                       | 0                  | 0                  | 0              |
| <b>Total Mechanical Services</b> |                         | <b>4,961,766</b> | <b>2,447,172</b>        | <b>6,036,960</b>   | <b>6,351,930</b>   | <b>314,970</b> |

Irvine Ranch Water District  
**Consolidated Operating Expense Budget for FY 2023-24**

| Maint. Ops                       |                            | FY 2021-22 | FY 2022-23              | FY2022-23 | FY 2023-24         |             |
|----------------------------------|----------------------------|------------|-------------------------|-----------|--------------------|-------------|
| Dept No                          | Expense Name               | Actual     | Actual thru<br>12/31/22 | Budget    | Proposed<br>Budget | Incr/(Decr) |
| <u>Facilities Services</u>       |                            |            |                         |           |                    |             |
| 850                              | Regular Labor              | 724,192    | 400,285                 | 738,700   | 892,400            | 153,700     |
| 850                              | Overtime Labor             | 45,352     | 18,266                  | 0         | 50,000             | 50,000      |
| 850                              | Employee Benefits          | 98,479     | 67,991                  | 528,600   | 504,370            | (24,230)    |
| 850                              | Electricity                | 490,516    | 275,855                 | 472,569   | 589,233            | 116,664     |
| 850                              | Fuel                       | 59,245     | 25,087                  | 20,000    | 74,916             | 54,916      |
| 850                              | Other Utilities            | 93,607     | 55,839                  | 82,000    | 110,000            | 28,000      |
| 850                              | Operating Supplies         | 30,733     | 18,565                  | 55,200    | 55,200             | 0           |
| 850                              | Office Supplies            | 0          | 102                     | 0         | 0                  | 0           |
| 850                              | Rep & Maint Other Agencies | 0          | 0                       | 7,200     | 0                  | (7,200)     |
| 850                              | Rep & Maint IRWD           | 2,308,466  | 1,004,953               | 2,126,804 | 2,626,600          | 499,796     |
| 850                              | Personnel Training         | 200        | 278                     | 200       | 200                | 0           |
| <b>Total Facilities Services</b> |                            | 3,850,790  | 1,867,221               | 4,031,273 | 4,902,919          | 871,646     |



Irvine Ranch Water District  
**Consolidated Operating Expense Budget for FY 2024-25**

| Maint. Ops                       |                            | FY 2021-22<br>Actual | FY 2022-23<br>Actual thru<br>12/31/23 | FY 2023-24<br>Proposed<br>Budget | FY 2024-25<br>Proposed<br>Budget | Incr/(Decr)    |
|----------------------------------|----------------------------|----------------------|---------------------------------------|----------------------------------|----------------------------------|----------------|
| <u>Dept No</u>                   | <u>Expense Name</u>        |                      |                                       |                                  |                                  |                |
| <b>Facilities Services</b>       |                            |                      |                                       |                                  |                                  |                |
| 850                              | Regular Labor              | 724,192              | 400,285                               | 892,400                          | 945,700                          | 53,300         |
| 850                              | Overtime Labor             | 45,352               | 18,266                                | 50,000                           | 50,000                           | 0              |
| 850                              | Employee Benefits          | 98,479               | 67,991                                | 504,370                          | 538,040                          | 33,670         |
| 850                              | Electricity                | 490,516              | 275,855                               | 589,233                          | 626,944                          | 37,711         |
| 850                              | Fuel                       | 59,245               | 25,087                                | 74,916                           | 78,660                           | 3,744          |
| 850                              | Other Utilities            | 93,607               | 55,839                                | 110,000                          | 110,000                          | 0              |
| 850                              | Operating Supplies         | 30,733               | 18,565                                | 55,200                           | 57,408                           | 2,208          |
| 850                              | Office Supplies            | 0                    | 102                                   | 0                                | 0                                | 0              |
| 850                              | Rep & Maint Other Agencies | 0                    | 0                                     | 0                                | 0                                | 0              |
| 850                              | Rep & Maint IRWD           | 2,308,466            | 1,004,953                             | 2,626,600                        | 2,745,408                        | 118,808        |
| 850                              | Personnel Training         | 200                  | 278                                   | 200                              | 208                              | 8              |
| <b>Total Facilities Services</b> |                            | <b>3,850,790</b>     | <b>1,867,221</b>                      | <b>4,902,919</b>                 | <b>5,152,368</b>                 | <b>249,449</b> |

**Irvine Ranch Water District**  
**Consolidated Operating Expense Budget for FY 2023-24**

| Maint. Ops                                  |                            | FY 2021-22 | FY 2022-23              | FY2022-23  | FY 2023-24         |             |
|---|----------------------------|------------|-------------------------|------------|--------------------|-------------|
| Dept No                                     | Expense Name               | Actual     | Actual thru<br>12/31/22 | Budget     | Proposed<br>Budget | Incr/(Decr) |
| <u>Fleet Services</u>                       |                            |            |                         |            |                    |             |
| 870   | Regular Labor              | 505,323    | 275,080                 | 464,800    | 557,700            | 92,900      |
| 870   | Overtime Labor             | 9,989      | 1,053                   | 8,000      | 8,000              | 0           |
| 870   | Employee Benefits          | 72,393     | 47,708                  | 328,900    | 316,760            | (12,140)    |
| 870   | Fuel                       | 714,777    | 432,860                 | 704,000    | 800,000            | 96,000      |
| 870   | Other Utilities            | 74,337     | 26,791                  | 80,000     | 140,000            | 60,000      |
| 870   | Operating Supplies         | 3,884      | 0                       | 7,700      | 9,450              | 1,750       |
| 870   | Permits, Licenses and Fees | 3,502      | 1,704                   | 13,500     | 13,500             | 0           |
| 870   | Equipment Rental           | 0          | 0                       | 8,000      | 8,000              | 0           |
| 870   | Rep & Maint IRWD           | 652,298    | 265,368                 | 700,000    | 700,000            | 0           |
| 870   | Personnel Training         | 1,209      | 554                     | 1,700      | 1,700              | 0           |
| 870   | Other Professional Fees    | 58         | 132                     | 0          | 0                  | 0           |
| 870   | Mileage Reimbursement      | 168,906    | 96,525                  | 158,000    | 184,000            | 26,000      |
| <b>Total Fleet Services</b>                 |                            | 2,206,676  | 1,147,774               | 2,474,600  | 2,739,110          | 264,510     |
| <hr style="border-top: 1px dashed black;"/> |                            |            |                         |            |                    |             |
| <b>Total Maint. Ops</b>                     |                            | 16,161,310 | 7,826,524               | 18,223,647 | 21,615,299         | 3,391,652   |

**Irvine Ranch Water District**  
**Consolidated Operating Expense Budget for FY 2024-25**

| Maint. Ops                  |                            | FY 2021-22<br>Actual | FY 2022-23<br>Actual thru<br>12/31/23 | FY 2023-24<br>Proposed<br>Budget | FY 2024-25<br>Proposed<br>Budget | Incr/(Decr)      |
|-----------------------------|----------------------------|----------------------|---------------------------------------|----------------------------------|----------------------------------|------------------|
| <u>Dept No</u>              | <u>Expense Name</u>        |                      |                                       |                                  |                                  |                  |
| <b>Fleet Services</b>       |                            |                      |                                       |                                  |                                  |                  |
| 870                         | Regular Labor              | 505,323              | 275,080                               | 557,700                          | 590,300                          | 32,600           |
| 870                         | Overtime Labor             | 9,989                | 1,053                                 | 8,000                            | 8,320                            | 320              |
| 870                         | Employee Benefits          | 72,393               | 47,708                                | 316,760                          | 337,840                          | 21,080           |
| 870                         | Fuel                       | 714,777              | 432,860                               | 800,000                          | 832,000                          | 32,000           |
| 870                         | Other Utilities            | 74,337               | 26,791                                | 140,000                          | 145,600                          | 5,600            |
| 870                         | Operating Supplies         | 3,884                | 0                                     | 9,450                            | 9,578                            | 128              |
| 870                         | Permits, Licenses and Fees | 3,502                | 1,704                                 | 13,500                           | 13,900                           | 400              |
| 870                         | Equipment Rental           | 0                    | 0                                     | 8,000                            | 8,320                            | 320              |
| 870                         | Rep & Maint IRWD           | 652,298              | 265,368                               | 700,000                          | 728,000                          | 28,000           |
| 870                         | Personnel Training         | 1,209                | 554                                   | 1,700                            | 1,768                            | 68               |
| 870                         | Other Professional Fees    | 58                   | 132                                   | 0                                | 0                                | 0                |
| 870                         | Mileage Reimbursement      | 168,906              | 96,525                                | 184,000                          | 184,000                          | 0                |
| <b>Total Fleet Services</b> |                            | <b>2,206,676</b>     | <b>1,147,774</b>                      | <b>2,739,110</b>                 | <b>2,859,626</b>                 | <b>120,516</b>   |
| <b>Total Maint. Ops</b>     |                            | <b>16,161,310</b>    | <b>7,826,524</b>                      | <b>21,615,299</b>                | <b>22,985,464</b>                | <b>1,370,165</b> |

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# **RECYCLED WATER USE and CROSS-CONNECTION CONTROL**

## **OPERATING BUDGET SUMMARY**

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### **Program Descriptions**

The Water Resources and Policy Department is responsible for developing and implementing water resource supply and demand management programs to enhance the reliability of water supplies for District customers. This is, in part, accomplished by expanding the use of recycled water in compliance with State and local requirements. To ensure the protection of the public water supply, including at recycled water use sites, the On-Site and Cross-Connection Control groups play important roles by implementing programs to protect public health.

**Recycled Water Customer Development:** IRWD is recognized as a national leader in recycled water based on the many years of experience IRWD has with recycled water, the large number of meters served, and groundbreaking projects IRWD has completed in partnership with its customers. IRWD currently serves more than 6,400 recycled water meters including:

- More than 145 commercial dual-plumbed buildings where recycled water is used for flushing toilets and urinals,
- More than 30 cooling towers,
- Approximately 700 single-family lots where recycled water is used for irrigating both the front and back yards, and
- Thousands of irrigation sites including golf courses, parks, school grounds, HOA common areas, agricultural sites, and more.

IRWD continues to work to add new recycled water customers by connecting sites which are the result of new construction and by converting existing potable or untreated water customers to recycled water. This is done by reviewing the plans for the use of recycled water to insure compliance with State and local requirements. Staff checks to make sure the uses for recycled water are allowed, that the water systems are properly identified, pipe material and separation standards are met, signage is in place, and more.

IRWD is also recognized for its support of recycled water through organizations such as the WaterReuse Association, a national recycled water advocacy group. IRWD, in concert with WaterReuse California, is active in state-wide policy, legislation, regulation, and support for other agencies which face challenges as their programs are initiated or are being expanded. On a regional level, IRWD had a lead role in working with other water recycling agencies and the regulatory agencies in Orange County to establish standards for on-going inspection and testing of recycled water use sites.

**Recycled Water Use Site Inspection and Testing:** Ensuring the safe and proper use of recycled water is important not only to our customers but the community as well. This is accomplished by implementing a recycled water use site inspection and testing program. Once the recycled water use sites are activated, IRWD has the responsibility to monitor those sites for on-going compliance



# **RECYCLED WATER USE and CROSS-CONNECTION CONTROL**

## **OPERATING BUDGET SUMMARY**

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with State and local requirements. This is done by having a recycled water use site visual inspection and cross-connection testing program where each site is periodically inspected for proper system identification, hours of operation, avoiding runoff, and to confirm that there are no cross connections. During the inspection, staff reviews the “Do’s and Don’ts” with the Site Supervisors to clarify their roles and responsibilities as they are responsible for the day-to-day operation of the sites.

The State Water Resources Control Board (SWRCB) is currently revising regulations which may lead to more stringent standards regarding the frequency by which recycled water use sites are inspected and tested. This work is currently accomplished by both staff and contractors. Once the revised regulations are approved by the SWRCB, IRWD will determine the optimal use of resources to meet the new requirements.

Cross-Connection Control: Title 17 of the California Code of Regulations requires that water agencies protect the public water system from contamination. This is done by implementing a cross-connection control program. IRWD’s program includes periodically surveying properties to determine what hazards, if any, exist and what type of backflow prevention device is required to protect the public system. Once a backflow prevention device is installed, annual testing is required to make sure it functions properly. These tests are performed by Orange County Health Care Agency certified backflow device technicians hired by the property owners. IRWD sends letters to property owners with testable backflow prevention devices notifying them that their devices are to be tested. IRWD provides the list of certified technicians to property owners. Once a device is tested, the technician is required to submit documentation to IRWD. There are currently more than 20,000 testable devices in IRWD’s service area.

To confirm on-going compliance at customer sites, IRWD staff conducts periodic field inspections to monitor for hazardous conditions and to determine if field conditions have changed that would warrant a change to the backflow requirements. These periodic field inspections are prioritized based on the types of activities conducted at customer sites.

IRWD itself has more than 150 backflow prevention devices at its properties that also require testing annually. These devices are tested by IRWD staff. If maintenance or repairs on IRWD’s devices is required, that work is performed by IRWD staff.

The State of California requires water agencies have a cross-connection program in compliance with Title 17 of the California Code of Regulations. The State Water Resources Control Board (SWRCB) will be replacing Title 17 with a Policy Handbook which is currently being drafted by SWRCB staff. Staff will work with SWRCB staff during the public input process. Once the document has been adopted, staff will review IRWD’s cross-connection program and revise as necessary.



# **RECYCLED WATER USE and CROSS-CONNECTION CONTROL**

## **OPERATING BUDGET SUMMARY**

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### **Major Goals**

#### RECYCLED WATER CUSTOMER DEVELOPMENT

- Expand the use of recycled water consistent with Title 22 of the California Code of Regulations;
- Work with Orange County Parks to pursue the conversion of the Irvine Regional Park irrigation system to recycled water. This would conserve approximately 240 acre-feet per year of imported water;
- Work with the Roman Catholic Diocese of Orange to pursue the conversion of the Holy Sepulcher Cemetery irrigation system to recycled water. This would conserve approximately 100 acre-feet per year of potable water;
- Pursue a new *Local Resources Program* funding agreement with MWD which provides a “per-acre foot” financial incentive to increase the use of recycled water;
- Assist WaterReuse California with its legislative agenda which includes allowing discharge of recycled water from impoundments during storm events;
- Remain active in the Orange County Chapter of WaterReuse California; and,
- Seek opportunities to dual-plumb commercial buildings, hotels, condominiums, and apartment properties.

#### RECYCLED WATER USE SITE INSPECTION & TESTING

- Conduct periodic visual inspections, cross-connection tests, and Site Supervisor training at more than 2,300 recycled water use sites;
- Inform property owners of the things that need to be done to bring each site into compliance with State and local requirements;
- Keep records of the site inspection, site testing and Site Supervisor training, and
- Work with other recycled water agencies in Orange County to develop reasonable standards for on-going inspection and testing of recycled water use sites which can be incorporated into water agencies written Cross-Connection Control Plans which will be required by the SWRCB’s Cross-Connection Control Policy Handbook.

#### CROSS-CONNECTION CONTROL

- Send notifications to customers requesting they have their backflow prevention device(s) tested and if necessary, repaired. There are more than 20,000 testable backflow prevention devices in IRWD’s service area;
- Conduct periodic inspections of customer sites to ensure the proper backflow prevention device(s) are in place;
- Compile a list of high-, medium-, and low-hazard sites in IRWD’s service area that will be the basis for future inspections based on level of risk;
- Test IRWD owned backflow prevention devices and repair as necessary; and,
- Work with other domestic water agencies in Orange County to develop reasonable standards



# **RECYCLED WATER USE and CROSS-CONNECTION CONTROL**

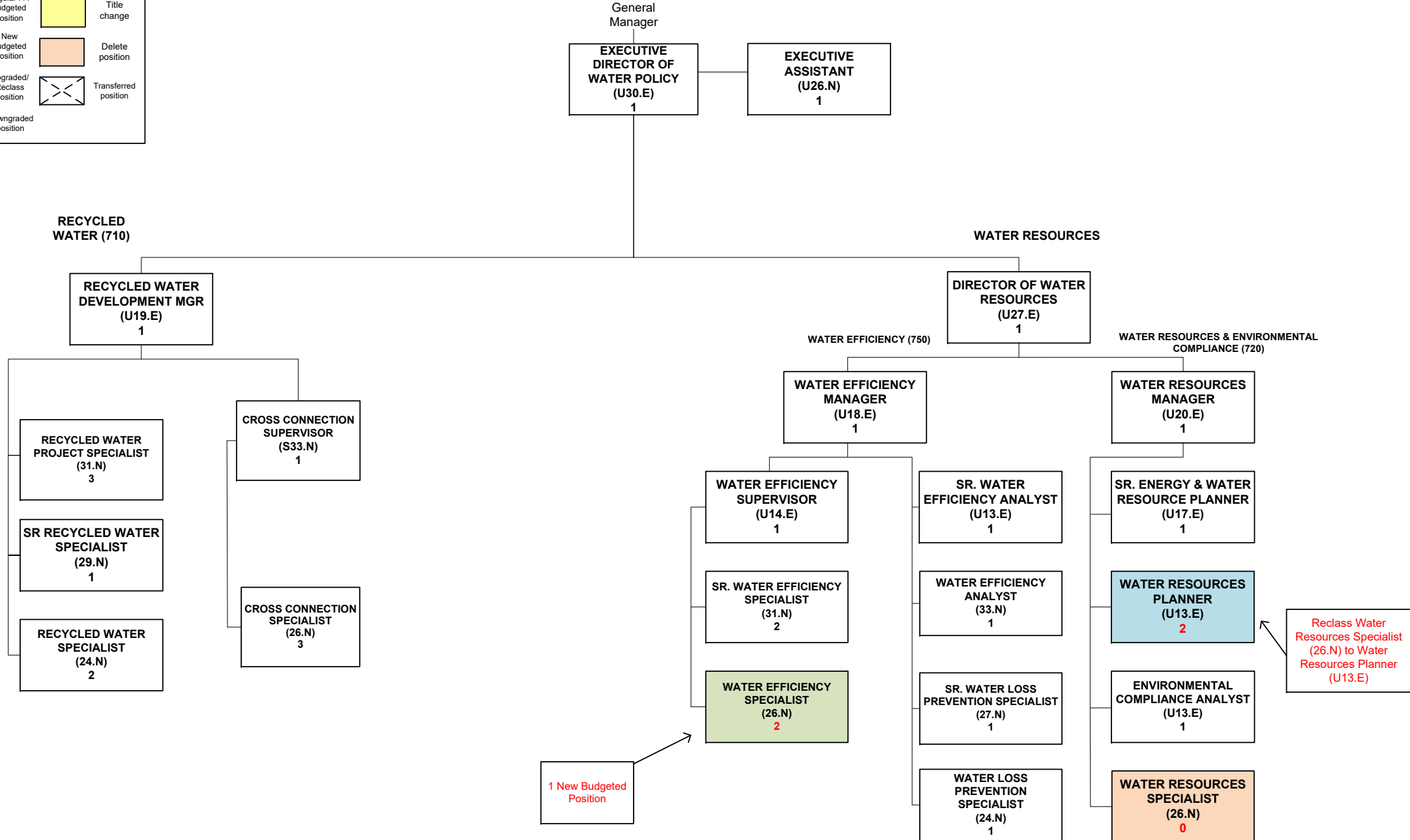
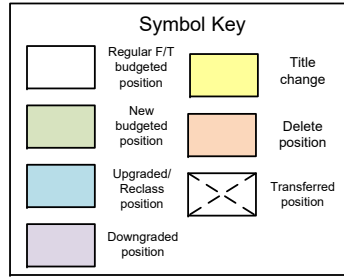
## **OPERATING BUDGET SUMMARY**

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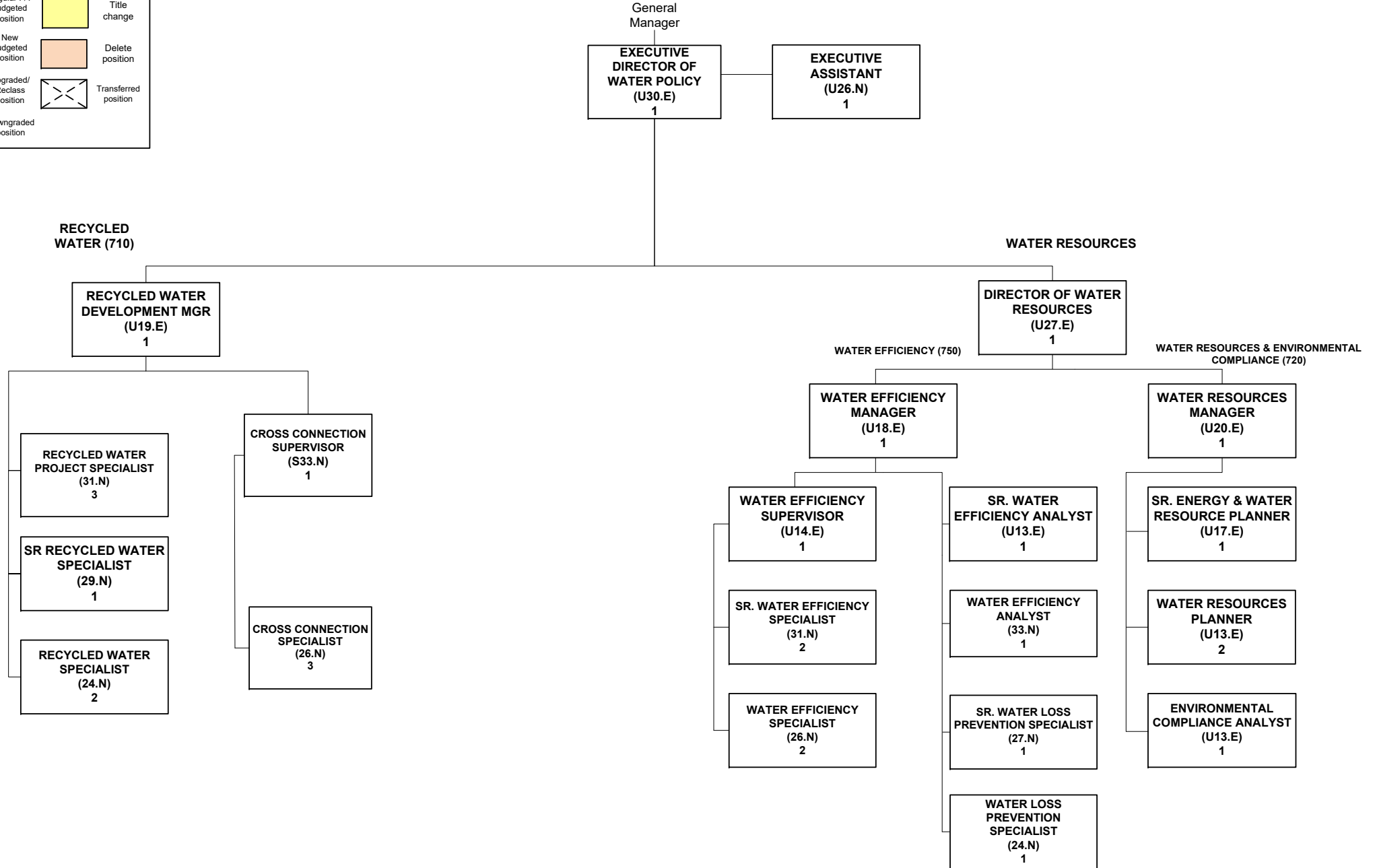
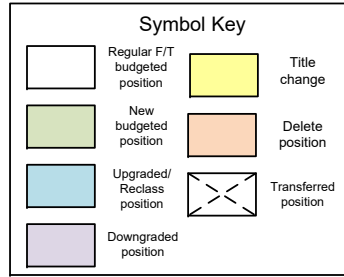
for on-going hazard assessments of potable water use sites which can be incorporated into water agencies written Cross-Connection Control Plans which will be required by the SWRCB's Cross-Connection Control Policy Handbook, which will replace Title 17 of the California Code of Regulations.



IRVINE RANCH WATER DISTRICT  
 WATER RESOURCES AND POLICY  
 FISCAL YEAR 2023-24



**IRVINE RANCH WATER DISTRICT  
WATER RESOURCES AND POLICY  
FISCAL YEAR 2024-25**



Irvine Ranch Water District  
**Consolidated Operating Expense Budget for FY 2023-24**

| Wtr Policy                              |                            | FY 2021-22 | FY 2022-23              | FY2022-23 | FY 2023-24         |             |
|---|----------------------------|------------|-------------------------|-----------|--------------------|-------------|
| Dept No                                 | Expense Name               | Actual     | Actual thru<br>12/31/22 | Budget    | Proposed<br>Budget | Incr/(Decr) |
| <u>Water Resources and Policy</u>       |                            |            |                         |           |                    |             |
| 710                                     | Regular Labor              | 1,206,619  | 702,054                 | 1,235,300 | 1,455,300          | 220,000     |
| 710                                     | Overtime Labor             | 3,361      | 5,166                   | 4,400     | 7,000              | 2,600       |
| 710                                     | Employee Benefits          | 239,074    | 148,589                 | 913,300   | 860,880            | (52,420)    |
| 710                                     | Contract Labor             | 30,334     | 17,073                  | 0         | 20,000             | 20,000      |
| 710                                     | Operating Supplies         | 7,622      | 2,741                   | 3,200     | 3,200              | 0           |
| 710                                     | Postage                    | 675        | 129                     | 1,200     | 600                | (600)       |
| 710                                     | Permits, Licenses and Fees | 41,647     | (20,000)                | 40,000    | 40,000             | 0           |
| 710                                     | Office Supplies            | 1,421      | 502                     | 2,800     | 1,200              | (1,600)     |
| 710                                     | Rep & Maint IRWD           | 10,003     | 3,144                   | 11,400    | 6,800              | (4,600)     |
| 710                                     | Personnel Training         | 7,242      | 3,674                   | 15,000    | 7,200              | (7,800)     |
| 710                                     | Other Professional Fees    | 384,515    | 132,953                 | 383,800   | 510,200            | 126,400     |
| <b>Total Water Resources and Policy</b> |                            | 1,932,514  | 996,025                 | 2,610,400 | 2,912,380          | 301,980     |

Irvine Ranch Water District  
**Consolidated Operating Expense Budget for FY 2024-25**

| Wtr Policy                              |                            | FY 2021-22<br>Actual | FY 2022-23<br>Actual thru<br>12/31/23 | FY 2023-24<br>Proposed<br>Budget | FY 2024-25<br>Proposed<br>Budget | Incr/(Decr)    |
|---|----------------------------|----------------------|---------------------------------------|----------------------------------|----------------------------------|----------------|
| <u>Dept No</u>                          | <u>Expense Name</u>        |                      |                                       |                                  |                                  |                |
| <u>Water Resources and Policy</u>       |                            |                      |                                       |                                  |                                  |                |
| 710                                     | Regular Labor              | 1,206,619            | 702,054                               | 1,455,300                        | 1,539,700                        | 84,400         |
| 710                                     | Overtime Labor             | 3,361                | 5,166                                 | 7,000                            | 7,000                            | 0              |
| 710                                     | Employee Benefits          | 239,074              | 148,589                               | 860,880                          | 915,830                          | 54,950         |
| 710                                     | Contract Labor             | 30,334               | 17,073                                | 20,000                           | 20,000                           | 0              |
| 710                                     | Operating Supplies         | 7,622                | 2,741                                 | 3,200                            | 3,200                            | 0              |
| 710                                     | Postage                    | 675                  | 129                                   | 600                              | 600                              | 0              |
| 710                                     | Permits, Licenses and Fees | 41,647               | (20,000)                              | 40,000                           | 40,000                           | 0              |
| 710                                     | Office Supplies            | 1,421                | 502                                   | 1,200                            | 1,200                            | 0              |
| 710                                     | Rep & Maint IRWD           | 10,003               | 3,144                                 | 6,800                            | 6,800                            | 0              |
| 710                                     | Personnel Training         | 7,242                | 3,674                                 | 7,200                            | 7,200                            | 0              |
| 710                                     | Other Professional Fees    | 384,515              | 132,953                               | 510,200                          | 510,200                          | 0              |
| <b>Total Water Resources and Policy</b> |                            | <b>1,932,514</b>     | <b>996,025</b>                        | <b>2,912,380</b>                 | <b>3,051,730</b>                 | <b>139,350</b> |



# **WATER RESOURCES AND ENVIRONMENTAL COMPLIANCE**

## **OPERATING BUDGET SUMMARY**

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### **Program Description**

The Water Resources and Policy Department is responsible for developing and implementing water resource supply and demand management programs to enhance the reliability of water supplies for District customers. The department is also responsible for managing the District's water banking programs, environmental compliance activities, and energy efficiency and renewable energy programs.

Water Resources and Environmental Compliance: The Water Resources and Environmental Compliance group is responsible for the planning and development of water supply programs and banking projects primarily outside of the local Orange County area. These programs and projects are increasing the diversity and reliability of the District's water supplies by securing water supplies from sources outside of Orange County during wet periods and storing them for future use in groundwater banking projects in Kern County. Water Resources and Environmental Compliance is also responsible for exploring and developing potential local water supply reliability opportunities. The District's efforts in the development of these programs and projects are needed in response to stressors on water supply reliability such as environmental pressures in the Delta, climate change, risks of major earthquakes, expanding statewide population, climate change, and expanding regulatory requirements.

In addition, the Water Resources and Environmental Compliance group is responsible for the negotiation and development of agreements with other agencies, banking partners and entities throughout the State of California for water transfer and exchanges that facilitate the recharge, storage and recovery of water at the water banking projects. It is responsible for the negotiation and the development of agreements that facilitate the delivery of water recovered from the water banking projects to IRWD's service area through facilities owned by the California Department of Water Resources, Kern County Water Agency and Metropolitan Water District of Southern California (MWD). It is also responsible for the management of water supplies allocated to District-owned lands within the Dudley Ridge Water District and for the management of IRWD-owned lands located in the Palo Verde Irrigation District (PVID) including the participation of these lands in the existing PVID/MWD fallowing program and any new water conservation related programs that PVID and MWD implement in the future.

Other responsibilities of Water Resources and Environmental Compliance include managing the District's environmental compliance programs, and overseeing the District's salt management plan, Sustainable Groundwater Management Act (SGMA) compliance as well as energy efficiency, greenhouse gas reporting, verification, and renewable energy planning activities. The environmental compliance programs focus on fulfilling the District's compliance requirements for the operation of potable and recycled water and wastewater systems operations, facility replacements and the construction of new facilities.



# **WATER RESOURCES AND ENVIRONMENTAL COMPLIANCE**

## **OPERATING BUDGET SUMMARY**

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### **Major Goals**

#### WATER RESOURCES

- Update the IRWD's Water Supply Evaluation;
- Bank supplemental water for IRWD while developing extraction and additional recharge and storage capacity as needed for IRWD and its water banking partners;
- Manage the completion of planning and conceptual design work as well as the development of the agreements needed for the implementation of the Kern Fan Groundwater Storage Project (Kern Fan Project);
- Work with the Groundwater Banking Joint Powers Authority in the design, construction and operation of the Kern Fan Project;
- Negotiate agreements for the delivery of MWD system water to IRWD's Kern County Banking Projects;
- Evaluate the long-term costs and benefits of the District's potential participation in the Sites Reservoir Project and the Delta Conveyance Project;
- Work to implement a pilot program through which other water agencies can participate in IRWD's water banking program;
- Implement long-term unbalanced exchange agreements with Central Coast Water Authority, Santa Clarita Valley Water Agency, Mojave Water Agency and others for IRWD's water banking program;
- Conduct research into increasing recharge rates at IRWD's water banking projects;
- Monitor IRWD's SGMA compliance for its Strand Ranch and Stockdale West properties consistent with plans prepared and implemented by the Kern Groundwater Authority Groundwater Sustainability Agency;
- Evaluate options to optimize the benefit of IRWD's State Water Project (SWP) supply allocated through the Dudley Ridge Water District;
- Continue to update the business plan for IRWD's water banking projects and programs;
- Exercise IRWD's existing long-term exchange program to facilitate use of Kern River water to IRWD service area;
- Participate in water conservation programs implemented by MWD and Palo Verde Irrigation District, such as land fallowing, which can make water available for other uses and improve IRWD's water supply reliability;
- Pursue grant funding for the Syphon Reservoir Improvement Project and other IRWD Capital Projects; and
- Prepare and submit grant funding applications for eligible IRWD capital projects including Reclamation's WaterSMART funding.



# **WATER RESOURCES AND ENVIRONMENTAL COMPLIANCE**

## **OPERATING BUDGET SUMMARY**

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### ENVIRONMENTAL COMPLIANCE

- Complete the work and studies associated with the preparation of an EIR and permitting for the Santiago Creek Dam Spillway and Outlet Tower Improvement Project;
- Work with the Groundwater Banking Joint Powers Authority and the California Department of Water Resources in the preparation and approval of supplemental environmental compliance documents as well as any necessary addendums to existing documents for the Kern Fan Project;
- Finalize a mitigation agreement and complete permitting work associated with the Syphon Reservoir Improvement Project;
- Obtain federal environmental compliance approval for Syphon Reservoir Improvement Project; and,
- Fulfill the District's environmental compliance requirements for capital projects, replacements and operations including the development and approval of Mitigated Negative Declarations, Environmental Impact Reports and Notices of Exemptions.

### ENERGY AND OTHER PLANNING

- Update the District's Energy and Greenhouse Gas Master Plan as phase 1 of the development of the District's Climate Action Plan;
- Monitor the impact of varying water supplies on maintaining the District's salt balance;
- Seek grant opportunities for District energy projects;
- Monitor and evaluate IRWD's participation in SCE's Direct Access Program;
- Maximize participation in Phase 2 of the SCE Water-Energy Pilot Program by jointly working with SCE on evaluating and implementing beneficial energy projects.

**Irvine Ranch Water District**  
**Consolidated Operating Expense Budget for FY 2023-24**

| Wtr Policy  |                            | FY 2021-22 | FY 2022-23              | FY2022-23 | FY 2023-24         |             |
|---|----------------------------|------------|-------------------------|-----------|--------------------|-------------|
| Dept No   | Expense Name               | Actual     | Actual thru<br>12/31/22 | Budget    | Proposed<br>Budget | Incr/(Decr) |
| <u>Water Resources and Environmental Compliance</u>       |                            |            |                         |           |                    |             |
| 720   | Water                      | 2,605,624  | 0                       | 0         | 0                  | 0           |
| 720   | Regular Labor              | 592,394    | 369,897                 | 690,000   | 815,900            | 125,900     |
| 720   | Overtime Labor             | 1,404      | 197                     | 400       | 0                  | (400)       |
| 720   | Employee Benefits          | 60,018     | 33,418                  | 517,300   | 479,110            | (38,190)    |
| 720   | Contract Labor             | 0          | 7,596                   | 0         | 18,000             | 18,000      |
| 720   | Electricity                | 16,471     | 5,550                   | 156,700   | 31,250             | (125,450)   |
| 720   | Operating Supplies         | 36         | 123                     | 0         | 0                  | 0           |
| 720   | Postage                    | 0          | 0                       | 100       | 0                  | (100)       |
| 720   | Permits, Licenses and Fees | 695,967    | 703,910                 | 689,800   | 771,375            | 81,575      |
| 720   | Office Supplies            | 190        | 0                       | 100       | 0                  | (100)       |
| 720   | Rep & Maint IRWD           | 1,979,157  | 1,137,486               | 720,000   | 476,800            | (243,200)   |
| 720   | Personnel Training         | 3,477      | 2,800                   | 3,000     | 4,500              | 1,500       |
| 720   | Other Professional Fees    | 162,799    | 61,362                  | 159,200   | 226,400            | 67,200      |
| <b>Total Water Resources and Environmental Compliance</b> |                            | 6,117,536  | 2,322,339               | 2,936,600 | 2,823,335          | (113,265)   |



**Irvine Ranch Water District**  
**Consolidated Operating Expense Budget for FY 2024-25**

| Wtr Policy  |                            | FY 2021-22       | FY 2022-23              | FY 2023-24         | FY 2024-25         |                |
|---|----------------------------|------------------|-------------------------|--------------------|--------------------|----------------|
| <u>Dept No</u>  | <u>Expense Name</u>        | Actual           | Actual thru<br>12/31/23 | Proposed<br>Budget | Proposed<br>Budget | Incr/(Decr)    |
| <u>Water Resources and Environmental Compliance</u>       |                            |                  |                         |                    |                    |                |
| 720   | Water                      | 2,605,624        | 0                       | 0                  | 0                  | 0              |
| 720   | Regular Labor              | 592,394          | 369,897                 | 815,900            | 856,400            | 40,500         |
| 720   | Overtime Labor             | 1,404            | 197                     | 0                  | 0                  | 0              |
| 720   | Employee Benefits          | 60,018           | 33,418                  | 479,110            | 507,340            | 28,230         |
| 720   | Contract Labor             | 0                | 7,596                   | 18,000             | 18,000             | 0              |
| 720   | Electricity                | 16,471           | 5,550                   | 31,250             | 31,250             | 0              |
| 720   | Operating Supplies         | 36               | 123                     | 0                  | 0                  | 0              |
| 720   | Postage                    | 0                | 0                       | 0                  | 0                  | 0              |
| 720   | Permits, Licenses and Fees | 695,967          | 703,910                 | 771,375            | 764,200            | (7,175)        |
| 720   | Office Supplies            | 190              | 0                       | 0                  | 0                  | 0              |
| 720   | Rep & Maint IRWD           | 1,979,157        | 1,137,486               | 476,800            | 946,700            | 469,900        |
| 720   | Personnel Training         | 3,477            | 2,800                   | 4,500              | 4,500              | 0              |
| 720   | Other Professional Fees    | 162,799          | 61,362                  | 226,400            | 228,600            | 2,200          |
| <b>Total Water Resources and Environmental Compliance</b> |                            | <b>6,117,536</b> | <b>2,322,339</b>        | <b>2,823,335</b>   | <b>3,356,990</b>   | <b>533,655</b> |

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# WATER EFFICIENCY

## OPERATING BUDGET SUMMARY

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### Program Description

The Water Resources and Policy Department is responsible for developing and implementing water resource supply and demand management programs to enhance the reliability of water supplies for District customers. The department is also responsible for managing the District's Water Efficiency Programs.

Water Efficiency: Demand management programs directly offset the need for developing additional water supplies and are a critical element in meeting the District's water resources and reliability objectives. IRWD has provided industry leadership through the development of innovative and aggressive demand management programs focusing on water use efficiency and sewage resource recycling. Water efficiency programs focused on outdoor water efficiency, compliance with new state requirements, tactical incentives and participation in innovative pilot programs and research that maintain IRWD's leadership position are incorporated into the two-year fiscal 2024-25 budget. IRWD will continue to be engaged in the development and implementation of local, regional, state-wide and national water efficiency and demand management policies.

### Major Goals

#### WATER EFFICIENCY

- Update the Water Efficiency Implementation Plan to include new programs and projects that will be offered during Fiscal Years 2023-24 and 2024-25.
- Develop partnerships with private and public entities to leverage the effectiveness and reach of water efficiency programs;
- Research and implement, as appropriate, new technologies and innovative programs to assist customers with improving their water use efficiency with a special emphasis on outdoor efficiency programs;
- Continue to partner with commercial, industrial and institutional customers to implement cost-effective water use efficiency programs;
- Continue to support and expand enhanced customer engagement and reporting as a tool to motivate additional water use efficiency;
- Continue to support and expand educational programs for the professional landscape industry;
- Implement the use of enhanced GIS data to improve customer allocation-setting, outreach and programs targeted toward outdoor water use;
- Actively participate in statewide policy discussions addressing the water-energy nexus;
- Actively engage in discussions with the State Water Resources Control Board, the California Department of Water Resources and other stakeholders on implementation of the State's Conservation as a California Way of Life legislation for efficient water use that balances local conditions, supplies, use of recycled water, prior conservation, growth and other equity adjustments;
- Establish the appropriate metrics and quantify water efficiency targets;
- Develop a feasibility study and business plan for the implementation of Advanced Meter Infrastructure projects in IRWD's service area; and,
- Develop a Water Loss Data Management Plan.

Irvine Ranch Water District  
**Consolidated Operating Expense Budget for FY 2023-24**

| Wtr Policy                    |                         | FY 2021-22 | FY 2022-23              | FY2022-23 | FY 2023-24         |             |
|-------------------------------|-------------------------|------------|-------------------------|-----------|--------------------|-------------|
| Dept No                       | Expense Name            | Actual     | Actual thru<br>12/31/22 | Budget    | Proposed<br>Budget | Incr/(Decr) |
| <b>Water Efficiency</b>       |                         |            |                         |           |                    |             |
| 750                           | Regular Labor           | 679,559    | 388,907                 | 791,600   | 1,029,600          | 238,000     |
| 750                           | Overtime Labor          | 10,577     | 2,511                   | 19,500    | 10,000             | (9,500)     |
| 750                           | Employee Benefits       | 81,901     | 63,471                  | 568,000   | 577,690            | 9,690       |
| 750                           | Contract Labor          | 194,836    | 135,786                 | 20,000    | 89,000             | 69,000      |
| 750                           | Operating Supplies      | 2,760      | 1,376                   | 3,000     | 3,000              | 0           |
| 750                           | Rep & Maint IRWD        | 25,650     | 11,503                  | 28,652    | 32,000             | 3,348       |
| 750                           | Personnel Training      | 8,042      | 8,114                   | 20,000    | 11,500             | (8,500)     |
| 750                           | Other Professional Fees | 16,945     | 4,149                   | 129,500   | 234,200            | 104,700     |
| 750                           | Mileage Reimbursement   | 0          | 416                     | 0         | 0                  | 0           |
| 750                           | Over Alloc              | 513,475    | (72,543)                | 694,750   | 1,039,900          | 345,150     |
| <b>Total Water Efficiency</b> |                         | 1,533,746  | 543,688                 | 2,275,002 | 3,026,890          | 751,888     |
|                               |                         |            |                         |           |                    |             |
| <b>Total Wtr Policy</b>       |                         | 9,583,796  | 3,862,053               | 7,822,002 | 8,762,605          | 940,603     |

Irvine Ranch Water District  
**Consolidated Operating Expense Budget for FY 2024-25**

| Wtr Policy                    |                         | FY 2021-22<br>Actual | FY 2022-23<br>Actual thru<br>12/31/23 | FY 2023-24<br>Proposed<br>Budget | FY 2024-25<br>Proposed<br>Budget | Incr/(Decr)     |
|-------------------------------|-------------------------|----------------------|---------------------------------------|----------------------------------|----------------------------------|-----------------|
| <u>Dept No</u>                | <u>Expense Name</u>     |                      |                                       |                                  |                                  |                 |
| <u>Water Efficiency</u>       |                         |                      |                                       |                                  |                                  |                 |
| 750                           | Regular Labor           | 679,559              | 388,907                               | 1,029,600                        | 1,090,400                        | 60,800          |
| 750                           | Overtime Labor          | 10,577               | 2,511                                 | 10,000                           | 10,000                           | 0               |
| 750                           | Employee Benefits       | 81,901               | 63,471                                | 577,690                          | 616,450                          | 38,760          |
| 750                           | Contract Labor          | 194,836              | 135,786                               | 89,000                           | 17,000                           | (72,000)        |
| 750                           | Operating Supplies      | 2,760                | 1,376                                 | 3,000                            | 3,000                            | 0               |
| 750                           | Rep & Maint IRWD        | 25,650               | 11,503                                | 32,000                           | 32,000                           | 0               |
| 750                           | Personnel Training      | 8,042                | 8,114                                 | 11,500                           | 10,900                           | (600)           |
| 750                           | Other Professional Fees | 16,945               | 4,149                                 | 234,200                          | 188,200                          | (46,000)        |
| 750                           | Mileage Reimbursement   | 0                    | 416                                   | 0                                | 0                                | 0               |
| 750                           | Over Alloc              | 513,475              | (72,543)                              | 1,039,900                        | 1,044,400                        | 4,500           |
| <b>Total Water Efficiency</b> |                         | <b>1,533,746</b>     | <b>543,688</b>                        | <b>3,026,890</b>                 | <b>3,012,350</b>                 | <b>(14,540)</b> |
| <b>Total Wtr Policy</b>       |                         | <b>9,583,796</b>     | <b>3,862,053</b>                      | <b>8,762,605</b>                 | <b>9,421,070</b>                 | <b>658,465</b>  |

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# GENERAL PLANT

## *SUMMARY* *FY 2023-24*

| <i>(in thousands)</i>        | Fiscal Year<br>2022-23 | Fiscal Year<br>2023-24 | Increase<br>(Decrease) |
|------------------------------|------------------------|------------------------|------------------------|
| Information Systems          | \$ 407                 | \$ 769                 | \$ 362                 |
| Transportation Equipment     | 388                    | 421                    | 33                     |
| Laboratory Equipment         | 237                    | 180                    | (57)                   |
| Work Equipment               | 650                    | 1,702                  | 1,052                  |
| Sub-Total                    | 1,682                  | 3,072                  | 1,390                  |
| Less: Vehicle Salvage Value  | (77)                   | (115)                  | (38)                   |
| <b>Total General Plant *</b> | <b>\$ 1,605</b>        | <b>\$ 2,957</b>        | <b>\$ 1,352</b>        |

### Fiscal Year 2023-24

|                                  |                 |                |
|----------------------------------|-----------------|----------------|
| Funded by User Charges           | \$ 2,681        | 90.67%         |
| Funded by Capital Funds          | 276             | 9.33%          |
| Funded by Overallocation Rev     | -               | 0.00%          |
| <b>Total Fiscal Year 2023-24</b> | <b>\$ 2,957</b> | <b>100.00%</b> |

### Fiscal Year 2022-23

|                                  |                 |                |
|----------------------------------|-----------------|----------------|
| Funded by User Charges           | \$ 1,588        | 98.94%         |
| Funded by Capital Funds          | 17              | 1.06%          |
| Funded by Overallocation Rev     | -               | 0.00%          |
| <b>Total Fiscal Year 2022-23</b> | <b>\$ 1,605</b> | <b>100.00%</b> |

\* General Plant is part of the Capital Budget, and the asset listing detail is included in the Capital Budget book. The detail above identifies the funding source for the capital assets.



# GENERAL PLANT

## *SUMMARY* *FY 2024-25*

| <i>(in thousands)</i>        | Fiscal Year<br>2023-24 | Fiscal Year<br>2024-25 | Increase<br>(Decrease) |
|------------------------------|------------------------|------------------------|------------------------|
| Information Systems          | \$ 769                 | \$ 683                 | \$ (86)                |
| Transportation Equipment     | 421                    | 401                    | (20)                   |
| Laboratory Equipment         | 180                    | 180                    | -                      |
| Work Equipment               | 1,702                  | 1,143                  | (559)                  |
| Sub-Total                    | 3,072                  | 2,407                  | (665)                  |
| Less: Vehicle Salvage Value  | (115)                  | (104)                  | 11                     |
| <b>Total General Plant *</b> | <b>\$ 2,957</b>        | <b>\$ 2,303</b>        | <b>\$ (654)</b>        |

### Fiscal Year 2024-25

|                                  |                 |                |
|----------------------------------|-----------------|----------------|
| Funded by User Charges           | \$ 2,156        | 93.62%         |
| Funded by Capital Funds          | 147             | 6.38%          |
| Funded by Overallocation Rev     | -               | 0.00%          |
| <b>Total Fiscal Year 2024-25</b> | <b>\$ 2,303</b> | <b>100.00%</b> |

### Fiscal Year 2023-24

|                                  |                 |                |
|----------------------------------|-----------------|----------------|
| Funded by User Charges           | \$ 2,681        | 90.67%         |
| Funded by Capital Funds          | 276             | 9.33%          |
| Funded by Overallocation Rev     | -               | 0.00%          |
| <b>Total Fiscal Year 2023-24</b> | <b>\$ 2,957</b> | <b>100.00%</b> |

\* General Plant is part of the Capital Budget, and the asset listing detail is included in the Capital Budget book. The detail above identifies the funding source for the capital assets.





(in thousands)

# GENERAL PLANT

## ANALYSIS BY DEPARTMENT

FY 2023-24

| Description                         | Safety       | Finance and Administrative Services | Engineering | Field Service | Water Quality and Regulatory Compliance | Water Policy | Maintenance     | Total           |
|-------------------------------------|--------------|-------------------------------------|-------------|---------------|---|--------------|-----------------|-----------------|
| Information Systems and Technology  | \$ 50        | \$ 719                              | \$ -        | \$ -          | \$ -                                    | \$ -         | \$ -            | \$ 769          |
| Laboratory Equipment                | -            | -                                   | -           | -             | 180                                     | -            | -               | 180             |
| Work Class Equipment                | -            | -                                   | -           | 30            | -                                       | -            | 1,672           | 1,702           |
| Transportation                      | -            | -                                   | -           | -             | -                                       | -            | 421             | 421             |
| <b>Subtotal</b>                     | <b>\$ 50</b> | <b>\$ 719</b>                       | <b>\$ -</b> | <b>\$ 30</b>  | <b>\$ 180</b>                           | <b>\$ -</b>  | <b>\$ 2,093</b> | <b>\$ 3,072</b> |
| Less Vehicle Salvage Value          | -            | -                                   | -           | -             | -                                       | -            | (115)           | (115)           |
| <b>Total Fiscal Year FY 2023-24</b> | <b>\$ 50</b> | <b>\$ 719</b>                       | <b>\$ -</b> | <b>\$ 30</b>  | <b>\$ 180</b>                           | <b>\$ -</b>  | <b>\$ 1,978</b> | <b>\$ 2,957</b> |
| Total Fiscal Year 2022-23           | -            | 407                                 | -           | -             | 237                                     | -            | 961             | 1,605           |
| Increase/(Decrease)                 | \$ 50        | \$ 312                              | \$ -        | \$ 30         | \$ (57)                                 | \$ -         | \$ 1,017        | \$ 1,352        |



(in thousands)

# GENERAL PLANT

## ANALYSIS BY DEPARTMENT

*FY 2024-25*

| Description                         | Safety       | Finance and Administrative Services | Engineering | Field Service | Water Quality and Regulatory Compliance | Water Policy | Maintenance     | Total           |
|-------------------------------------|--------------|-------------------------------------|-------------|---------------|---|--------------|-----------------|-----------------|
| Information Systems and Technology  | \$ 40        | \$ 643                              | \$ -        | \$ -          | \$ -                                    | \$ -         | \$ -            | \$ 683          |
| Laboratory Equipment                | -            | -                                   | -           | -             | 180                                     | -            | -               | 180             |
| Work Class Equipment                | -            | -                                   | -           | 31            | -                                       | -            | 1,112           | 1,143           |
| Transportation                      | -            | -                                   | -           | -             | -                                       | -            | 401             | 401             |
| Subtotal                            | \$ 40        | \$ 643                              | \$ -        | \$ 31         | \$ 180                                  | \$ -         | \$ 1,513        | \$ 2,407        |
| Less Vehicle Salvage Value          | -            | -                                   | -           | -             | -                                       | -            | (104)           | (104)           |
| <b>Total Fiscal Year FY 2024-25</b> | <b>\$ 40</b> | <b>\$ 643</b>                       | <b>\$ -</b> | <b>\$ 31</b>  | <b>\$ 180</b>                           | <b>\$ -</b>  | <b>\$ 1,409</b> | <b>\$ 2,303</b> |
| Total Fiscal Year FY 2023-24        | 50           | 719                                 | -           | 30            | 180                                     | -            | 1,978           | 2,957           |
| Increase/(Decrease)                 | \$ (10)      | \$ (76)                             | \$ -        | \$ 1          | \$ -                                    | \$ -         | \$ (569)        | \$ (654)        |



# GENERAL PLANT

## GENERAL PLANT BUDGET DETAIL FY 2023-24

| TASK   | Item Description                                  | Quantity | Price      | FY<br>2023-24 |
|--|---|----------|------------|---------------|
| <b>Department: SAFETY</b>                                    |   |          |            |               |
| 130 8032.130.1   | EOC Components                                    | 1        | \$ 50,000  | \$ 50,000     |
| Sub-Total  |   |          |            | \$ 50,000     |
| <b>Department: INFORMATION SERVICES</b>                      |   |          |            |               |
| 250 8031.250.3   | Board Room and Conference Room Technology Refresh | 1        | \$ 150,000 | \$ 150,000    |
| 250 8041.250.4   | PC/Laptop/Peripherals Replacement                 | 1        | 220,000    | 220,000       |
| 250 8031.250.5   | Network Storage                                   | 1        | 50,000     | 50,000        |
| 250 8031.250.6   | Cybersecurity Tools                               | 1        | 50,000     | 50,000        |
| 250 8031.250.7   | CCTV Video Storage Archiver (Safety)              | 1        | 33,000     | 33,000        |
| 250 8031.250.8   | Microsoft Surface 2-in-1 (OPS, Dept 430)          | 5        | 3,000      | 15,000        |
| 250 8041.250.9   | SCADA Laptops (OPS, Dept 530)                     | 4        | 2,300      | 9,200         |
| 250 8041.250.10  | SCADA ThinClients (OPS, Dept 530)                 | 26       | 600        | 15,600        |
| 250 8033.250.11  | SCADA Servers (OPS, Dept 530)                     | 3        | 32,667     | 98,000        |
| 250 8041.250.12  | SCADA iPads (OPS, Dept 530)                       | 24       | 1,438      | 34,500        |
| 250 8041.250.13  | SCADA Misc. Computer Peripherals (OPS, Dept 530)  | 1        | 5,000      | 5,000         |
| 250 8041.250.14  | SCADA Monitors (OPS, Dept 530)                    | 1        | 25,000     | 25,000        |
| 250 8030.250.15  | Monitors (OPS, Dept 805)                          | 6        | 300        | 1,800         |
| 250 8030.250.16  | Laptops (OPS, Dept 805)                           | 6        | 2,000      | 12,000        |
| Sub-Total  |   |          |            | \$ 719,100    |
| <b>Department: FIELD SERVICES</b>                            |   |          |            |               |
| 425 8031.425.50  | Battery operated valve exercising equipment       | 4        | \$ 7,500   | \$ 30,000     |
| Sub-Total  |   |          |            | \$ 30,000     |
| <b>Department: WATER QUALITY &amp; REGULATORY COMPLIANCE</b> |   |          |            |               |
| 600 8036.600.17  | Existing Laboratory Equipment Replacement         | 1        | \$ 180,000 | \$ 180,000    |
| Sub-Total  |   |          |            | \$ 180,000    |
| <b>Department: FLEET SERVICES</b>                            |   |          |            |               |
| 870 8055.870.19  | Light Duty Pickup Truck                           | 1        | \$ 45,000  | \$ 45,000     |
| 870 8055.870.21  | Light Duty Pickup Truck                           | 1        | 45,000     | 45,000        |
| 870 8055.870.22  | Medium Duty Pickup Truck                          | 1        | 48,000     | 48,000        |
| 870 8055.870.27  | Medium Duty Pickup Truck 4X4                      | 1        | 50,000     | 50,000        |
| 870 8055.870.28  | Medium Duty Pickup Truck w/ 9' Utility Bed        | 1        | 72,000     | 72,000        |
| 870 8055.870.31  | Medium Duty Pickup Truck                          | 1        | 48,000     | 48,000        |
| 870 8055.870.32  | Medium Duty Pickup Truck                          | 1        | 48,000     | 48,000        |
| 870 8038.870.33  | Large Dump 10Yd                                   | 1        | 300,000    | 300,000       |
| 870 8038.870.35  | Large Wheel Loader                                | 1        | 295,000    | 295,000       |
| 870 8038.870.36  | 12 Inch Bypass Pump                               | 1        | 112,000    | 112,000       |
| 870 8037.870.37  | Combo Sewer Truck                                 | 1        | 800,000    | 800,000       |



# GENERAL PLANT

## GENERAL PLANT BUDGET DETAIL FY 2023-24

| <b>TASK</b>         | <b>Item Description</b>              | <b>Quantity</b> | <b>Price</b> | <b>FY<br/>2023-24</b>      |
|---------------------|--------------------------------------|-----------------|--------------|----------------------------|
| 870 8037.870.40     | Backhoe Trailer                      | 1               | 45,000       | 45,000                     |
| 870 8037.870.41     | Backhoe Trailer                      | 1               | 45,000       | 45,000                     |
| 870 8055.870.42     | Transit Van                          | 1               | 65,000       | 65,000                     |
| 870 8031.870.44     | Pipeline inspection Camera           | 1               | 25,000       | 25,000                     |
| 870 8031.870.45     | Machinery Alignment Laser            | 1               | 25,000       | 25,000                     |
| 870 8030.870.47     | Asset Tag Machine for QR Code Labels | 1               | 25,000       | 25,000                     |
| Sub-Total           |                                      |                 |              | <u>\$ 2,093,000</u>        |
| Total General Plant |                                      |                 |              | <u><u>\$ 3,072,100</u></u> |



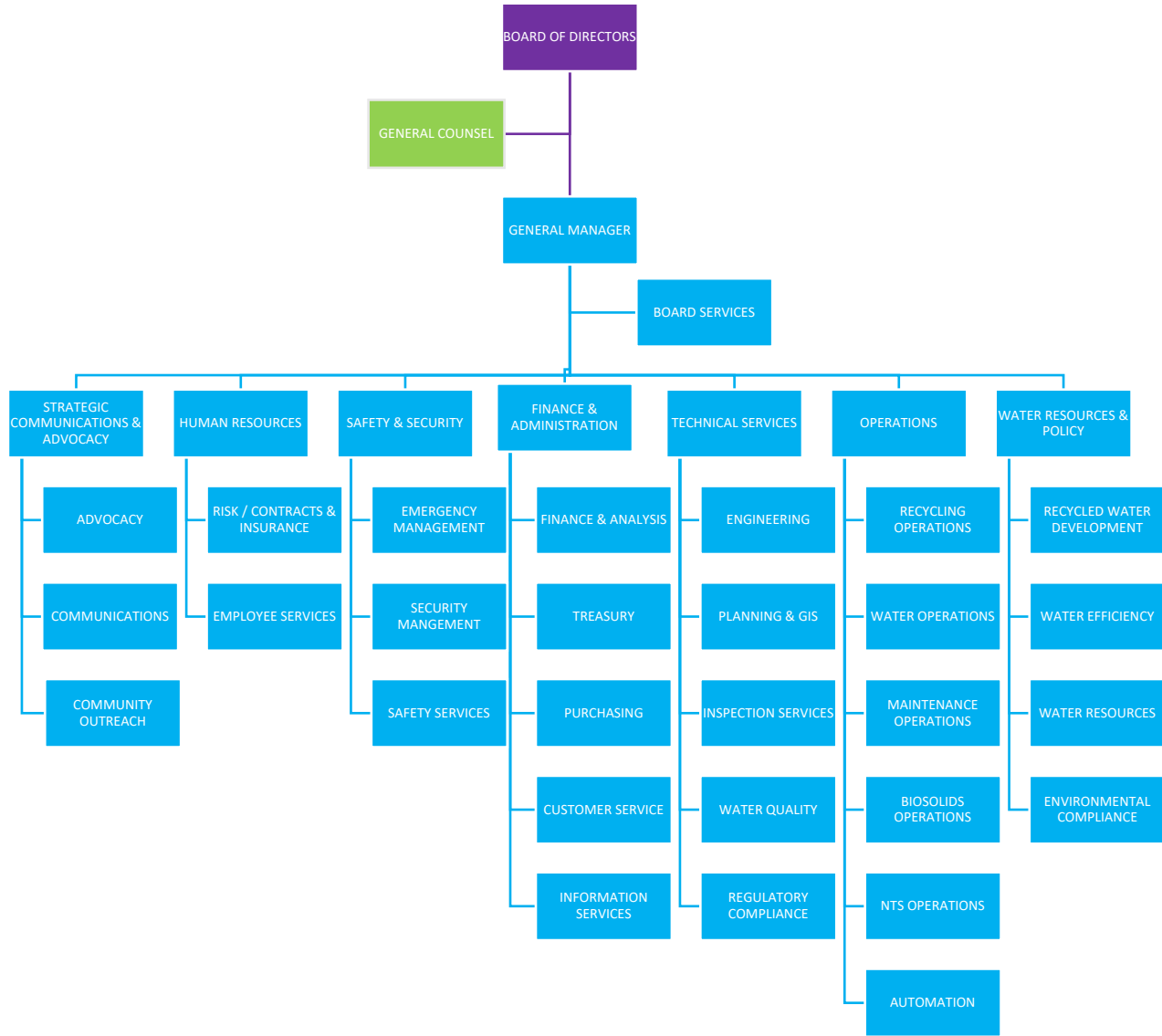
# GENERAL PLANT

## GENERAL PLANT BUDGET DETAIL FY 2024-25

| TASK   | Item Description                                     | Quantity | Price      | FY<br>2024-25       |
|--|--|----------|------------|---------------------|
| <b>Department: SAFETY</b>                                    |  |          |            |                     |
| 130 8033.130.2   | CCTV camera upgrades and relocation of some existing | 1        | \$ 40,000  | \$ 40,000           |
| Sub-Total  |  |          |            | \$ 40,000           |
| <b>Department: INFORMATION SERVICES</b>                      |  |          |            |                     |
| 250 8031.250.3   | Board Room and Conference Room Technology Refresh    | 1        | \$ 150,000 | \$ 150,000          |
| 250 8041.250.4   | PC/Laptop/Peripherals Replacement                    | 1        | 230,000    | 230,000             |
| 250 8031.250.5   | Network Storage                                      | 1        | 50,000     | 50,000              |
| 250 8031.250.6   | Cybersecurity Tools                                  | 1        | 50,000     | 50,000              |
| 250 8041.250.9   | SCADA Laptops (OPS, Dept 530)                        | 12       | 2,300      | 27,600              |
| 250 8041.250.10  | SCADA ThinClients (OPS, Dept 530)                    | 17       | 600        | 10,200              |
| 250 8033.250.11  | SCADA Servers (OPS, Dept 530)                        | 3        | 40,000     | 120,000             |
| 250 8041.250.13  | SCADA Misc. Computer Peripherals (OPS, Dept 530)     | 1        | 5,000      | 5,000               |
| Sub-Total  |  |          |            | \$ 642,800          |
| <b>Department: FIELD SERVICES</b>                            |  |          |            |                     |
| 425 8031.425.50  | Battery operated valve exercising equipment          | 4        | \$ 7,762   | \$ 31,048           |
| Sub-Total  |  |          |            | \$ 31,048           |
| <b>Department: WATER QUALITY &amp; REGULATORY COMPLIANCE</b> |  |          |            |                     |
| 600 8036.600.17  | Existing Laboratory Equipment Replacement            | 1        | \$ 180,000 | \$ 180,000          |
| Sub-Total  |  |          |            | \$ 180,000          |
| <b>Department: FLEET SERVICES</b>                            |  |          |            |                     |
| 870 8055.870.18  | Light Duty Pickup Truck                              | 1        | \$ 47,500  | \$ 47,500           |
| 870 8055.870.20  | Light Duty Pickup Truck                              | 1        | 47,500     | 47,500              |
| 870 8055.870.23  | Medium Duty Pickup Truck                             | 1        | 50,500     | 50,500              |
| 870 8056.870.24  | Small Dump 4X4                                       | 1        | 78,750     | 78,750              |
| 870 8056.870.25  | Small Dump 4X4                                       | 1        | 78,750     | 78,750              |
| 870 8055.870.26  | Medium Duty Pickup Truck                             | 1        | 50,400     | 50,400              |
| 870 8038.870.29  | Heavy Duty Pickup Truck w/ Utility Bed and Crane     | 1        | 99,750     | 99,750              |
| 870 8055.870.30  | Light Duty Pickup Truck                              | 1        | 47,500     | 47,500              |
| 870 8038.870.34  | Large Dump 10Yd                                      | 1        | 315,000    | 315,000             |
| 870 8037.870.38  | Backhoe Trailer                                      | 1        | 45,000     | 45,000              |
| 870 8037.870.39  | Backhoe Trailer                                      | 1        | 45,000     | 45,000              |
| 870 8037.870.43  | CNC equipped lathe for Mechanical Machine Shop       | 1        | 100,000    | 100,000             |
| 870 8037.870.46  | Yale Electric Forklift                               | 1        | 57,500     | 57,500              |
| 870 8037.870.48  | Crew Trucks for Construction Services                | 1        | 225,000    | 225,000             |
| 870 8037.870.49  | Crew Trucks for Construction Services                | 1        | 225,000    | 225,000             |
| Sub-Total  |  |          |            | \$ 1,513,150        |
| Total General Plant  |  |          |            | <u>\$ 2,406,998</u> |

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IRVINE RANCH WATER DISTRICT  
 ORGANIZATIONAL CHART  
 (By Function)





# POSITIONS BY COST CENTER

## FOUR YEAR PERSONNEL COMPARISON

| Department                                       | Budget       |              | Proposed     |              |
|--|--------------|--------------|--------------|--------------|
|  | FY 2021-22   | FY 2022-23   | FY 2023-24   | FY 2024-25   |
| <b>Administration</b>                            |              |              |              |              |
| Number of Positions *                            | 29.0         | 28.0         | 29.0         | 31.0         |
| % change from prior year                         | 16.0 %       | (3.4) %      | 3.6 %        | 6.9 %        |
| <b>Finance and Administrative Services</b>       |              |              |              |              |
| Number of Positions *                            | 89.0         | 91.0         | 92.0         | 92.0         |
| % change from prior year                         | (1.1) %      | 2.2 %        | 1.1 %        | 0.0 %        |
| <b>Engineering</b>                               |              |              |              |              |
| Number of Positions *                            | 45.0         | 45.0         | 45.0         | 45.0         |
| % change from prior year                         | 2.3 %        | 0.0 %        | 0.0 %        | 0.0 %        |
| <b>Water Operations</b>                          |              |              |              |              |
| Number of Positions *                            | 73.0         | 73.0         | 70.0         | 70.0         |
| % change from prior year                         | 0.0 %        | 0.0 %        | (4.1) %      | 0.0 %        |
| <b>Recycling Operations</b>                      |              |              |              |              |
| Number of Positions *                            | 62.0         | 63.0         | 62.0         | 64.0         |
| % change from prior year                         | 1.6 %        | 1.6 %        | (1.6) %      | 3.2 %        |
| <b>Water Quality and Regulatory Compliance</b>   |              |              |              |              |
| Number of Positions                              | 33.0         | 34.0         | 35.0         | 35.0         |
| % change from prior year                         | 6.5 %        | 3.0 %        | 2.9 %        | 0.0 %        |
| <b>Water Policy</b>                              |              |              |              |              |
| Number of Positions *                            | 28.0         | 28.0         | 29.0         | 29.0         |
| % change from prior year                         | 0.0 %        | 0.0 %        | 3.6 %        | 0.0 %        |
| <b>Maintenance and Operations Administration</b> |              |              |              |              |
| Number of Positions *                            | 60.0         | 60.0         | 62.0         | 63.0         |
| % change from prior year                         | (1.6) %      | 0.0 %        | 3.3 %        | 1.6 %        |
| <b>Total Number of Positions</b>                 | <b>419.0</b> | <b>422.0</b> | <b>424.0</b> | <b>429.0</b> |
| <b>Number of Changed Positions</b>               | <b>6.0</b>   | <b>3.0</b>   | <b>2.0</b>   | <b>5.0</b>   |
| <b>% Change From Prior Year</b>                  | <b>1.5 %</b> | <b>0.7 %</b> | <b>0.5 %</b> | <b>1.2 %</b> |

\* Prior years restated to reflect organizational changes and positions added during the year post budget cycle.





# SALARIES AND WAGES

## SUMMARY OF SALARIES AND WAGES

*FY 2023-24*

| <b>(in thousands)</b>   | Total     | Administration | Finance and Administrative Services | Engineering | Water Operations | Recycling Operations | Water Quality and Regulatory Compliance | Water Policy | Maintenance and Operations Administration |
|---|-----------|----------------|-------------------------------------|-------------|------------------|----------------------|---|--------------|---|
| <b>Current Authorized:</b>  |           |                |                                     |             |                  |                      |   |              |   |
| Gross Pay   | \$ 40,338 | \$ 2,936       | \$ 8,567                            | \$ 5,245    | \$ 6,890         | \$ 5,362             | \$ 3,329                                | \$ 2,964     | \$ 5,045                                  |
| Annual Increase   | 3,429     | 257            | 727                                 | 445         | 584              | 455                  | 282                                     | 251          | 428                                       |
| Sub-Total Regular Salaries & Wages                                    | \$ 43,767 | \$ 3,193       | \$ 9,294                            | \$ 5,690    | \$ 7,474         | \$ 5,817             | \$ 3,611                                | \$ 3,215     | \$ 5,473                                  |
| <b>New Positions:</b>   |           |                |                                     |             |                  |                      |   |              |   |
| Gross Pay   | 723       | 112            | 120                                 | -           | -                | 216                  | 101                                     | 86           | 88  |
| Total Regular Salaries & Wages  | \$ 44,490 | \$ 3,305       | \$ 9,414                            | \$ 5,690    | \$ 7,474         | \$ 6,033             | \$ 3,712                                | \$ 3,301     | \$ 5,561                                  |
| Insurance and Benefits  | 14,914    | 1,108          | 3,156                               | 1,907       | 2,505            | 2,022                | 1,244                                   | 1,107        | 1,864                                     |
| Employment Tax & PERS Contributions                                   | 15,840    | 1,177          | 3,352                               | 2,026       | 2,661            | 2,148                | 1,322                                   | 1,175        | 1,980                                     |
| Total Regular Salaries & Wages, health Insurance and employment taxes | \$ 75,244 | \$ 5,590       | \$ 15,922                           | \$ 9,623    | \$ 12,640        | \$ 10,203            | \$ 6,278                                | \$ 5,583     | \$ 9,405                                  |
| Employee Count:   | 424       | 29             | 92                                  | 45          | 70               | 62                   | 35                                      | 29           | 62  |



# SALARIES AND WAGES

## SUMMARY OF SALARIES AND WAGES

*FY 2024-25*

(in thousands)

|   | Total     | Administration | Finance and Administrative Services | Engineering | Water Operations | Recycling Operations | Water Quality and Regulatory Compliance | Water Policy | Maintenance and Operations Administration |
|---|-----------|----------------|-------------------------------------|-------------|------------------|----------------------|---|--------------|---|
| <b>Current Authorized:</b>  |           |                |                                     |             |                  |                      |   |              |   |
| Gross Pay   | \$ 44,490 | \$ 3,305       | \$ 9,414                            | \$ 5,690    | \$ 7,474         | \$ 6,033             | \$ 3,712                                | \$ 3,301     | \$ 5,561                                  |
| Annual Increase   | 2,651     | 256            | 540                                 | 322         | 433              | 347                  | 242                                     | 185          | 326                                       |
| Sub-Total Regular Salaries & Wages                                    | \$ 47,140 | \$ 3,561       | \$ 9,954                            | \$ 6,012    | \$ 7,906         | \$ 6,380             | \$ 3,954                                | \$ 3,486     | \$ 5,887                                  |
| <b>New Positions:</b>   |           |                |                                     |             |                  |                      |   |              |   |
| Gross Pay   | 513       | 183            | -                                   | -           | -                | 215                  | -                                       | -            | 115                                       |
| Total Regular Salaries & Wages  | \$ 47,653 | \$ 3,744       | \$ 9,954                            | \$ 6,012    | \$ 7,906         | \$ 6,595             | \$ 3,954                                | \$ 3,486     | \$ 6,002                                  |
| Insurance and Benefits  | 16,086    | 1,264          | 3,360                               | 2,029       | 2,669            | 2,226                | 1,335                                   | 1,177        | 2,026                                     |
| Employment Tax & PERS Contributions                                   | 16,868    | 1,325          | 3,523                               | 2,128       | 2,799            | 2,334                | 1,400                                   | 1,234        | 2,125                                     |
| Total Regular Salaries & Wages, health Insurance and employment taxes | \$ 80,607 | \$ 6,333       | \$ 16,837                           | \$ 10,169   | \$ 13,374        | \$ 11,155            | \$ 6,689                                | \$ 5,897     | \$ 10,153                                 |
| Employee Count:   | 429       | 31             | 92                                  | 45          | 70               | 64                   | 35                                      | 29           | 63  |



# BENEFITS AND EMPLOYMENT TAX

## HEALTH INSURANCE AND EMPLOYER CONTRIBUTIONS FY 2023-24

|   | FY 2022-23       | FY 2023-24       | Change            |
|---|------------------|------------------|-------------------|
| <b>Insurance and Benefits</b>               |                  |                  |                   |
| Health Ins Actives                          | \$ 7,450         | \$ 7,050         | \$ (400)          |
| Paid Time Off                               | 5,559            | 4,024            | (1,535)           |
| Dental Premiums                             | 524              | 672              | 148               |
| Wrkrs Comp Premiums                         | 825              | 830              | 5                 |
| Wrkrs Comp Paid Claims                      | 772              | 500              | (272)             |
| Life Ins Actives                            | 180              | 297              | 117               |
| LT Disability Premiums                      | 174              | 148              | (26)              |
| Medical Premiums - Retirees                 | 425              | 531              | 106               |
| Vision Benefit Premiums                     | 98               | 116              | 18                |
| RHCAP Payments - OPEB                       | 351              | 505              | 154               |
| Life Ins Retirees                           | 13               | 33               | 20                |
| Other                                       | 187              | 208              | 21                |
|   | <u>\$ 16,558</u> | <u>\$ 14,914</u> | <u>\$ (1,644)</u> |
| <b>Employment Tax and PERS</b>              |                  |                  |                   |
| PERS Employer Portion *                     | \$ 13,302        | \$ 13,583        | \$ 281            |
| 401A Employer Match Portion                 | 1,052            | 1,116            | 64                |
| 401A Employer Direct Portion                | 421              | 400              | (21)              |
| Medicare Tax                                | 598              | 686              | 88                |
| St Unemployment Tax                         | 50               | 55               | 5                 |
|   | <u>\$ 15,423</u> | <u>\$ 15,840</u> | <u>\$ 417</u>     |
| <b>Total Insurance, Benefits, and Taxes</b> | <u>\$ 31,981</u> | <u>\$ 30,754</u> | <u>\$ (1,227)</u> |

\* Prior year restated to include PERS in Excess of ARC, which is now included in PERS Employer Portion



# BENEFITS AND EMPLOYMENT TAX

## HEALTH INSURANCE AND EMPLOYER CONTRIBUTIONS FY 2024-25

|   | FY 2023-24       | FY 2024-25       | Change          |
|---|------------------|------------------|-----------------|
| <b>Insurance and Benefits</b>               |                  |                  |                 |
| Health Ins Actives                          | \$ 7,050         | \$ 7,760         | \$ 710          |
| Paid Time Off                               | 4,024            | 4,405            | 381             |
| Dental Premiums                             | 672              | 672              | -               |
| Wrkrs Comp Premiums                         | 830              | 835              | 5               |
| Wrkrs Comp Paid Claims                      | 500              | 500              | -               |
| Life Ins Actives                            | 297              | 297              | -               |
| LT Disability Premiums                      | 148              | 148              | -               |
| Medical Premiums - Retirees                 | 531              | 546              | 15              |
| Vision Benefit Premiums                     | 116              | 116              | -               |
| RHCAP Payments - OPEB                       | 505              | 530              | 25              |
| Life Ins Retirees                           | 33               | 43               | 10              |
| Other                                       | 208              | 234              | 26              |
|   | <u>\$ 14,914</u> | <u>\$ 16,086</u> | <u>\$ 1,172</u> |
| <b>Employment Tax and PERS</b>              |                  |                  |                 |
| PERS Employer Portion                       | \$ 13,583        | \$ 14,482        | \$ 899          |
| 401A Employer Match Portion                 | 1,116            | 1,179            | 63              |
| 401A Employer Direct Portion                | 400              | 420              | 20              |
| Medicare Tax                                | 686              | 727              | 41              |
| St Unemployment Tax                         | 55               | 60               | 5               |
|   | <u>\$ 15,840</u> | <u>\$ 16,868</u> | <u>\$ 1,028</u> |
| <b>Total Insurance, Benefits, and Taxes</b> | <u>\$ 30,754</u> | <u>\$ 32,954</u> | <u>\$ 2,200</u> |

**FY 2023/24 Budget  
Summary of Proposed Budgeted Personnel Changes**

| Proposed Changes to Existing Budgeted Positions |                                    |                   |                      |                                |                    |                   |
|---|------------------------------------|-------------------|----------------------|--------------------------------|--------------------|-------------------|
| Dept  | Job Title                          | Current Sal Grade | Proposed Action      | Proposed Job Title             | Proposed Sal Grade | Salary Costs      |
| 110   | Senior Office Specialist           | 19.N              | Reclass 1 Position   | Executive Secretary            | U22.N              | \$6,678           |
| 110   | Community Relations Assistant      | 24.N              | Reclass 1 Position   | Community Relations Specialist | 30.N               | \$15,660          |
| 110   | Community Relations Manager        | U18.E             | Reclass 1 Position   | External Affairs Manager       | U21.E              | \$14,520          |
| 210   | Accountant                         | 27.N              | Reclass 1 Position   | Payroll Administrator          | 31.N               | \$11,124          |
| 300   | Senior Engineer                    | U20.E             | Downgrade 1 Position | Engineer                       | U17.E              | -\$14,292         |
| 300   | GIS III                            | 29.N              | Title Change Only    | Senior GIS Technician          | 29.N               | \$0               |
| 300   | GIS II                             | 25.0N             | Title Change Only    | GIS Technician                 | 25.N               | \$0               |
| 420   | Operator II                        | 27.N              | Downgrade 1 Position | Operator I                     | 22.N               | -\$12,096         |
| 425   | Metering Systems Technician I      | 16.N              | Eliminate 1 Position |                                |                    | -\$66,132         |
| 425   | Water Maintenance Technician I     | 16.N              | Eliminate 2 Position |                                |                    | -\$132,264        |
| 550   | Process Specialist                 | 32.N              | Eliminate 1 Position |                                |                    | -\$103,698        |
| 570   | Collection Systems CCTV Technician | 23.N              | Reclass 1 Position   | Asset Maintenance Coordinator  | 32.N               | \$23,916          |
| 570   | Collection Systems Technician II   | 21.N              | Eliminate 1 Position |                                |                    | -\$75,312         |
| 600   | Scientist                          | 29.N              | Reclass 1 Position   | Senior Scientist               | 32.N               | \$8,694           |
| 720   | Water Resources Specialist         | 26.N              | Reclass 1 Position   | Water Resources Planner        | U13.E              | \$27,126          |
| 805   | Director of Field Operations       | U27.E             | Downgrade 1 Position | Biosolids Manager              | U21.E              | -\$39,780         |
| 830   | Reliability Engineer               | U20.E             | Reclass 1 Position   | Reliability Engineer Manager   | U22.E              | \$10,200          |
| Subtotal  |                                    |                   |                      |                                |                    | <u>-\$325,656</u> |

| Proposed New Positions |                                    |           |                  |                     |
|------------------------|------------------------------------|-----------|------------------|---------------------|
| Dept                   | Job Title                          | Sal Grade | Salary Costs     | Number of Positions |
| 140                    | Senior Human Resources Analyst     | U13.E     | \$114,228        | 1                   |
| 250                    | Senior User Support Administrator  | U15.E     | \$122,496        | 1                   |
| 530                    | Senior SCADA Network Administrator | U15.E     | \$122,496        | 1                   |
| 550                    | Operator III                       | 30.N      | \$97,830         | 1                   |
| 600                    | QA/QC Specialist                   | 29.N      | \$95,004         | 1                   |
| 750                    | Water Efficiency Specialist        | 26.N      | \$87,102         | 1                   |
| 830                    | Senior Maintenance Mechanic        | 27.N      | \$89,646         | 1                   |
| Subtotal               |                                    |           | <u>\$728,802</u> | <u>7</u>            |
| Total                  |                                    |           | <u>\$403,146</u> |                     |



# LABOR

## *PROPOSED LABOR CHANGES*

*FY 2023/24*

### **Proposed Personnel Budget Changes Reflected in the FY 2023/24 Operating Budget**

#### **Title and Salary Grade Changes for Existing Positions/Job Titles**

##### ***General Manager (110):***

Senior Office Specialist (Salary Grade 19.N) to Executive Secretary (Salary Grade U22.N)

This position reclassification is being requested to more properly reflect the specific duties and responsibilities of the position.

##### ***Advocacy (110)***

Community Relations Assistant (Salary Grade 24.N) to Community Relations Specialist (Salary Grade 30.N)

This position reclassification is being requested to more properly reflect the specific duties and responsibilities of the position.

Community Relations Manager (Salary Grade U18.E) to External Affairs Manager (Salary Grade U21.E)

This position reclassification is being requested to meet the needs of the department, specifically to increase involvement in the District's legislative and regulatory efforts.

##### ***Finance & Treasury (210):***

Accountant (Salary Grade 27.N) to Payroll Administrator (Salary Grade 31.N)

This position reclassification is being requested to reflect the primary duties of the position.

##### ***Engineering (300):***

Senior Engineer (Salary Grade U20.E) to Engineer (Salary Grade U17.E)

This position reclassification is being requested to reflect the level of engineer currently needed in the department.

##### ***Water Operations (420):***

Operator II (Salary Grade 27.N) to Operator I (Salary Grade 22.N)

This position reclassification is being requested to reflect the level of operator currently needed in the department.



# LABOR

## *PROPOSED LABOR CHANGES*

### *FY 2023/24*

#### **Collection Systems (570)**

Collection Systems CCTV Technician (Salary Grade 23.N) to Asset Maintenance Coordinator (Salary Grade 32.N)

This position reclassification is being requested due to a shift in the needs of the District with the increased demands of the asset management effort.

#### **Water Quality (600)**

Scientist (Salary Grade 29.N) to Senior Scientist (Salary Grade 32.N)

This position reclassification is being requested to as this position will be performing work at a level appropriate for a Senior Scientist.

#### **Water Resources (720)**

Water Resources Specialist (Salary Grade 26.N) to Water Resources Planner (Salary Grade U13.E)

This position reclassification is being requested to more properly reflect the specific duties and responsibilities of the position.

#### **Operations Administration (805)**

Director of Field Services (Salary Grade U27.E) to Biosolids Manager (Salary Grade U21.E)

This position reclassification is being requested as the District's biosolids operations require a dedicated manager to accomplish the goals of this operation.

#### **Asset Systems (830)**

Reliability Engineer (Salary Grade U20.E) to Reliability Engineer Manager (Salary Grade U22.E)

This position reclassification is being requested to more reflect the specific duties and responsibilities of the position.

### **Title Changes Only**

#### **Engineering (300):**

GIS Technician III (Salary Grade 29.N) to Senior GIS Technician (Salary Grade 29.N)  
Title change only.

GIS Technician II (Salary Grade 25.N) to GIS Technician (Salary Grade 25.N)  
Title change only.



# LABOR

## *PROPOSED LABOR CHANGES* *FY 2023/24*

### Eliminated Positions

#### ***Field Services (425):***

Metering Systems Technician I (Salary Grade 16.N) – 1 position

Water Maintenance Technician I (Salary Grade 16.N) – 2 positions

#### ***MWRP Operations (550):***

Process Specialist (Salary Grade 32.N) – 1 position

#### ***Collection Systems (570):***

Collection Systems Technician II (Salary Grade 15.N) – 1 position

### New Positions

#### ***Human Resources (140):***

Senior Human Resources Analyst (Salary Grade U13.E) – 1 position

This position is being requested to meet the increased need for human resource services at the District due to workforce expansion and an increase in services provided.

#### ***Information Services (250):***

Senior User Support Administrator (Salary Grade U15.E) – 1 position

This position is being requested to meet increased need for Information Systems user support due to an increase in workforce and in the number of devices utilized at the District.

#### ***Automation (530):***

Senior SCADA Network Administrator (Salary Grade U15.E) – 1 position

This new position is required to assist with the growing size and complexity of SCADA.

#### ***MWRP Operations (550):***

Operator III (Salary Grade 30.N) – 1 position

This position is required to assist with the increased workload at Biosolids.





Irvine Ranch  
WATER DISTRICT

# LABOR

## *PROPOSED LABOR CHANGES*

### *FY 2023/24*

#### ***Water Quality (600):***

QA/QC Specialist (Salary Grade 29.N) – 1 position

This position is being requested to meet the District's need to continue to maintain the increasingly complex systems and equipment within its Water Quality Laboratory.

#### ***Water Efficiency (750):***

Water Efficiency Specialist (Salary Grade 26.N) – 1 position

This position is required due to the increased workload and to reduce temporary labor.

#### ***Mechanical Services (840):***

Senior Maintenance Mechanic (Salary Grade 27.N) – 1 position

This position is being requested to meet District's increase mechanical maintenance needs, particularly in its biosolids operations.

**FY 2024/25 Budget  
Summary of Proposed Budgeted Personnel Changes**

| Proposed Changes to Existing Budgeted Positions |           |                   |                 |                    |                    |              |
|---|-----------|-------------------|-----------------|--------------------|--------------------|--------------|
| Dept  | Job Title | Current Sal Grade | Proposed Action | Proposed Job Title | Proposed Sal Grade | Salary Costs |
|   |           |                   |                 |                    |                    | \$0          |
|   |           |                   |                 |                    |                    | \$0          |
| Subtotal  |           |                   |                 |                    |                    | \$0          |

| Proposed New Positions |                            |           |                  |                     |
|------------------------|----------------------------|-----------|------------------|---------------------|
| Dept                   | Job Title                  | Sal Grade | Salary Costs     | Number of Positions |
| 130                    | Safety Specialist          | U29.N     | \$95,190         | 1                   |
| 140                    | Human Resources Technician | U25.N     | \$84,708         | 1                   |
| 530                    | Network Administrator      | U35.N     | \$113,304        | 1                   |
| 550                    | Operator III               | 30.N      | \$97,830         | 1                   |
| 830                    | Asset Systems Supervisor   | S33.N     | \$106,944        | 1                   |
| Subtotal               |                            |           | <u>\$497,976</u> | <u>5</u>            |
| Total                  |                            |           | <u>\$497,976</u> |                     |



# LABOR

## ***PROPOSED LABOR CHANGES*** ***FY 2024/25***

### **Proposed Personnel Budget Changes Reflected in the FY 2024/25 Operating Budget**

#### **New Positions**

##### ***Safety & Security (130):***

Safety Specialist (Salary Grade U29.N) – 1 position

This position is being requested to support the implementation of the District's expanding safety program.

##### ***Human Resources (140):***

Human Resources Technician (Salary Grade U25.N) – 1 position

This position is being requested to meet the increased need for human resource services at the District due to workforce expansion and an increase in services provided.

##### ***Automation (530):***

Network Administrator (Salary Grade U35.N) – 1 position

This new position is required to assist with the growing size and complexity of SCADA.

##### ***MWRP Operations (550):***

Operator III (Salary Grade 30.N) – 1 position

This position is being requested to meet the increasing workload associated with the District's water recycling and solids handling facilities.

##### ***Asset Systems (830):***

Asset Systems Supervisor (Salary Grade S33.N) – 1 position

This position is being requested to meet the requirements of the District's expanded Asset Management Systems.

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Irvine Ranch Water District (IRWD) is a public agency that provides water and sewer service. Our rates are based on the actual cost to provide water and sewer service to our customers and are based on the expenses included in IRWD's budget. The IRWD Board of Directors adopted a two-year budget on April 24, 2023. The basis for the proposed rates is detailed in the Cost of Service Study, available at [IRWD.com/services/proposed-rates](http://IRWD.com/services/proposed-rates). **The proposed rates for the two years, if adopted, will be effective June 26, 2023, and will be implemented on July 1, 2023, and July 1, 2024, respectively. As proposed, they are expected to increase the average residential bill by 9.9% per year.** The increase is due primarily to uncontrollable pass-through cost increases from regional agencies that supply water, regional sewage, or energy services to IRWD, as well as inflation and increases in costs associated with continuing to provide the current high level of water and sewer service our customers expect. Information on how the rates are calculated is shown below.

A critical IRWD objective is to keep costs, and therefore rates, as low as possible for our customers. Even with the proposed increase, when compared with other agencies providing similar services in Orange County, IRWD's rates are consistently among the lowest.

**Understanding basic components of your residential water bill**

Your water bill has two basic components: variable water usage charges and service charges.

- **Variable water usage charges:** Variable costs — for the amount of water you use both inside and outside your home each month. These charges are based on the cost of local and imported water, and other costs of providing service that vary based on usage. Some customers may also incur a pumping surcharge to cover additional pumping costs to serve their properties.
- **Service charges:** Fixed costs — to recover the fixed expenses of operating and maintaining IRWD's infrastructure. There are separate service charges for water and sewer service. These monthly fixed costs fluctuate depending on the number of days in a billing cycle.

**Variable water usage charge**

Each residence is assigned a monthly water usage budget. How much you pay for each 100 cubic feet (CCF) of water depends on whether you stay within your water budget. IRWD allocates its lowest-cost water supplies for customers' usage within their monthly water budget. Higher-cost water is used to meet demands of customers' water use above their budgets. For example, groundwater from local wells is the least expensive supply, while imported water from out of state or Northern California costs the most.

Rates are broken into four tiers. Each tier is assigned a rate based on the actual cost of serving customers within each tier. Cost of service includes both the cost of water based on the source of water and other variable costs as detailed below. The Low Volume and Base rate tiers are for water used within each customer's budget, which is sourced primarily from lower-cost groundwater and reduces the need to import expensive water. The majority of imported water costs are allocated to the Inefficient and Wasteful tiers. Expenses for districtwide conservation programs that educate and assist customers on ways to conserve water are not included in the Low Volume rate since customers who remain in this tier do not need this assistance. Additional costs associated with targeted conservation programs, urban runoff treatment, and water banking are paid only by customers with usage in the Inefficient and Wasteful tiers because their higher usage: (i) requires individualized conservation assistance, (ii) leads to urban runoff that requires costly treatment, and (iii) requires greater water reserves through water banking to provide reliable water supplies during a drought or other water shortage. Costs are allocated among those two tiers based on their share of costs to run these programs. IRWD would not need these programs if those customers remained within their individual water budgets.

| Proposed variable water rates per CCF* beginning July 1, 2023                                       |                 |           |                  |               |
|---|-----------------|-----------|------------------|---------------|
| Service   | Low Volume tier | Base tier | Inefficient tier | Wasteful tier |
| Total water source cost   | \$1.91          | \$2.44    | \$3.89           | \$3.89        |
| Districtwide conservation programs  |                 | \$0.11    | \$0.11           | \$0.11        |
| Conservation programs targeted to over-budget customers, urban runoff costs and water banking costs |                 |           | \$2.25           | \$11.49       |
| Rate Stabilization Fund   | (\$0.16)        | (\$0.03)  |                  |               |
| Total cost per CCF per tier proposed beginning July 2023  | \$1.75          | \$2.52    | \$6.25           | \$15.49       |
| Current rates   | \$1.53          | \$2.42    | \$5.15           | \$14.64       |
| Change  | \$0.22          | \$0.10    | \$1.10           | \$0.85        |

\* 1 CCF = 748 gallons



# Irvine Ranch Water District Notice of Proposed Water and Sewer Rate Change

## Proposed variable water rates per CCF beginning July 1, 2024

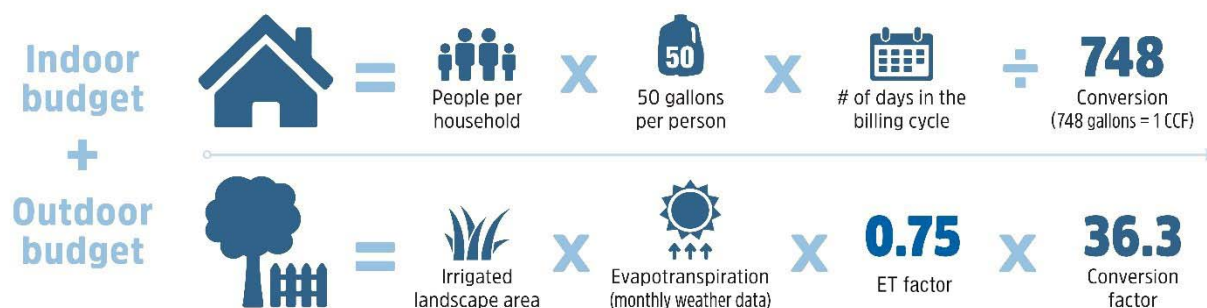
| Service   | Low Volume tier | Base tier | Inefficient tier | Wasteful tier |
|---|-----------------|-----------|------------------|---------------|
| Total water source cost   | \$1.99          | \$2.54    | \$4.13           | \$4.15        |
| Districtwide conservation programs  |                 | \$0.11    | \$0.11           | \$0.11        |
| Conservation programs targeted to over-budget customers, urban runoff costs and water banking costs |                 |           | \$2.31           | \$12.20       |
| Total cost per CCF per tier proposed beginning July 2024  | \$1.99          | \$2.65    | \$6.55           | \$16.46       |
| Proposed FY 2023-24 rates   | \$1.75          | \$2.52    | \$6.25           | \$15.49       |
| Change  | \$0.24          | \$0.13    | \$0.30           | \$0.97        |

### How your water budget is calculated

Your monthly household water usage budget is the sum of your **indoor + outdoor water budgets**. Together they represent an efficient volume of water to meet your individualized water needs.

- Indoor water budget:** 50 gallons per person per day (divided by 748, to convert gallons to CCF). For single-family homes, we assume a default of four people per household. For condominiums, we assume three people per household, and for apartments we assume two people per unit. If your household is larger, you may apply for a variance to increase your water budget.
- Outdoor water budget:** is calculated for your property using actual data from local weather stations. We multiply your irrigated landscape area (in acres) x evapotranspiration x 0.75 ET factor x 36.3 conversion factor to convert acre inches of water to CCF.

- ✓ CCF is the basic measurement of water use. One CCF equals 100 cubic feet of water — about 748 gallons.
- ✓ **Evapotranspiration or ET** is a measure of actual daily plant water loss.
- ✓ **ET factor** accounts for the fact that at least 40% of your landscape should be drought-tolerant and provides 20% additional water to account for inefficiency in your irrigation system.



## Summary of proposed residential variable water rates

| Tier        | Percentage use of monthly water budget for residential customers | Current rates per CCF | Proposed rates per CCF beginning July 1, 2023 | Proposed rates per CCF beginning July 1, 2024 |
|-------------|--|-----------------------|---|---|
| Low Volume  | 0-40%  | \$1.53                | \$1.75  | \$1.99  |
| Base Rate   | 41-100%  | \$2.42                | \$2.52  | \$2.65  |
| Inefficient | 101-140%   | \$5.15                | \$6.25  | \$6.55  |
| Wasteful    | 141%+  | \$14.64               | \$15.49                                       | \$16.46                                       |

### Monthly water budgets and rate calculator available on IRWD.com

For more information about the rate tiers, the types of usage that determine the monthly water budget, how the monthly water budget is calculated, and to use the IRWD budget-based-rate calculator, please visit the IRWD website at [IRWD.com/services/proposed-rates](https://www.irwd.com/services/proposed-rates). The calculator shows how staying within your monthly water budget or exceeding it will affect your monthly bill.



### Pumping surcharges

A pumping surcharge will be added to the variable water usage charge for customers in locations that cause IRWD to incur additional pumping costs to supply their water. The surcharge is based on the actual prevailing energy costs and varies depending upon the cost to pump water to the area served. If you live in an area affected by a pumping surcharge, the charge is itemized on your monthly bill. IRWD is proposing changes to the pumping surcharge areas. Please visit the IRWD website at [IRWD.com/services/proposed-rates](http://IRWD.com/services/proposed-rates) to see the proposed map and charges by area.

| Proposed changes to pumping surcharges |  |   |   |
|--|--|---|---|
| Component                              | Current rates<br><i>(rates vary by<br/>pumping surcharge area)</i> | Proposed rates beginning<br>July 1, 2023<br><i>(rates vary by<br/>pumping surcharge area)</i> | Proposed rates beginning<br>July 1, 2024<br><i>(rates vary by<br/>pumping surcharge area)</i> |
| Pumping surcharges by area             | \$0.33 to \$0.79/CCF   | \$0.38 to \$1.72/CCF  | \$0.41 to \$1.88/CCF  |

### Fixed water and sewer service charges

In addition to the water usage charges that you control based on the amount of water you use, your bill contains fixed charges for water service and sewer service. Fixed water service charges are based on the size of your water meter providing water flow to your property. These charges are assessed whether or not you use water that month and may increase or decrease based on the number of days in the billing period. Monthly service charges are fixed charges that cover IRWD's cost of operations, maintenance, and infrastructure, and do not change based on the amount of a customer's monthly water or sewer use. Monthly service charges are based on a 30-day calendar month, so billing cycles that are longer or shorter than 30 days are billed based on the proportional number of days. The fixed charge includes an amount set aside for the future inevitable repair and replacement of infrastructure such as pipes, pumping stations, and treatment facilities. This way, IRWD can avoid significant one-time rate spikes when the repairs and replacements are made. These charges are not used to pay for facilities that extend service to new development.

### Fixed water service charges

The fixed monthly water service charges for the average residential customer are used to pay for operations and maintenance costs, including inevitable water infrastructure enhancements and replacements. The charge is based on the size of your meter.

| Proposed changes to fixed monthly water service charges for system operation and maintenance |                     |  |  |
|--|---------------------|--|--|
| Residential meter size<br>homes, condos, apartments  | Current meter rates | Proposed rates<br>beginning July 1, 2023 | Proposed rates<br>beginning July 1, 2024 |
| 5/8" x 3/4" Disc   | \$10.75             | \$11.85                                  | \$13.20                                  |
| 3/4" Disc  | \$16.15             | \$17.80                                  | \$19.80                                  |
| 1" Disc  | \$26.90             | \$29.65                                  | \$33.00                                  |
| 1½" Disc   | \$64.50             | \$71.10                                  | \$79.20                                  |
| 1½" Single Jet   | \$53.75             | \$59.25                                  | \$66.00                                  |
| 2" Disc or Single Jet  | \$86.00             | \$94.80                                  | \$105.60                                 |
| 2" Turbo   | \$134.40            | \$148.15                                 | \$165.00                                 |
| 3" Turbo   | \$349.40            | \$385.15                                 | \$429.00                                 |
| 4" Turbo   | \$671.90            | \$740.65                                 | \$825.00                                 |
| 6" Turbo   | \$1,343.75          | \$1,481.25                               | \$1,650.00                               |
| 8" Turbo   | \$2,526.25          | \$2,073.75                               | \$2,310.00                               |
| 6" Turbo Omni F-2  | \$1,075.00          | \$1,185.00                               | \$1,320.00                               |
| 8" Turbo Omni F-2  | \$2,526.25          | \$2,073.75                               | \$2,310.00                               |
| Residential master meter (shared) apartments and<br>condominiums 5/8" x 3/4" meter           | \$10.75             | \$11.85                                  | \$13.20                                  |

Your meter size and amount appear on your bill. Customers who remain in the Low Volume tier for most of the year will have a larger percentage of their bill made up of the fixed charge. Customers who remain in the Low Volume tier for nine months of the prior calendar year will receive a \$2.00 credit per month, which will be itemized on each bill. New customers do not receive this credit unless they have been with the District for a full calendar year.

### Fixed sewer service charges

Fixed monthly sewer service charges are used to pay for operations and maintenance costs associated with providing sewer service, including inevitable sewer infrastructure enhancements and replacements of infrastructure such as pipes, pumping stations, and treatment facilities. Each customer's use of IRWD sewer service derives from the customer's use of potable water from IRWD, so each customer is billed in one of three tiers, based on the customer's lowest three-month potable water usage from the prior calendar year. Until IRWD has a new customer's full calendar year of usage history, the customer is billed at the middle tier rate.



| Proposed changes to fixed monthly sewer service charges for system operation and maintenance |                       |                                       |                                       |
|--|-----------------------|---------------------------------------|---------------------------------------|
| Usage  | Current monthly rates | Proposed rates beginning July 1, 2023 | Proposed rates beginning July 1, 2024 |
| Average water usage exceeds 10 CCFs per month  | \$29.75               | \$33.24                               | \$36.79                               |
| Average water usage falls between 5 and 10 CCFs  | \$25.50               | \$28.78                               | \$31.86                               |
| Average water usage falls below 5 CCFs   | \$20.45               | \$23.10                               | \$25.70                               |
| Proposed changes to sewer service charges for collection or treatment only                   |                       |                                       |                                       |
| Collection only service charge   | \$9.25                | \$10.95                               | \$11.55                               |
| Treatment only service charge  | \$16.25               | \$19.70                               | \$20.50                               |

**Private fireline service charges**

Private firelines provide water to sprinkler systems and private fire hydrants for fire suppression on private property. These include fire protection systems, such as fire protection sprinklers and private fire hydrants that are not part of, but are connected to, the public water service. Costs are billed to the customers owning the private fire protection systems and are based upon the size of the fireline.

| Proposed changes to monthly fireline service charges |                       |                                       |                                       |
|--|-----------------------|---------------------------------------|---------------------------------------|
| Private fireline size                                | Current monthly rates | Proposed rates beginning July 1, 2023 | Proposed rates beginning July 1, 2024 |
| 1"   | \$6.20                | \$7.45                                | \$7.65                                |
| 2"   | \$8.45                | \$9.75                                | \$10.15                               |
| 3"   | \$13.55               | \$14.95                               | \$15.80                               |
| 4"   | \$22.45               | \$23.90                               | \$25.50                               |
| 6"   | \$54.15               | \$56.10                               | \$60.35                               |
| 8"   | \$108.90              | \$111.65                              | \$120.50                              |
| 10"  | \$191.05              | \$195.15                              | \$210.95                              |
| 11"  | \$245.15              | \$248.75                              | \$268.95                              |
| 12"  | \$306.70              | \$310.90                              | \$336.30                              |
| Private fire hydrants                                | \$54.15               | \$34.00                               | \$36.60                               |

**Other charges**

IRWD also charges for setting up new accounts for a property already connected to IRWD's service system and for reconnecting water service after it has been shut off.

| Proposed changes to fees to set up a service account and reconnect service after a shut-off |                   |                                       |                                       |
|---|-------------------|---------------------------------------|---------------------------------------|
| Component   | Current rates     | Proposed rates beginning July 1, 2023 | Proposed rates beginning July 1, 2024 |
| One-time setup fee for new accounts   | \$25.00           | \$25.00                               | \$25.00                               |
| Shut-off reconnection fees  | \$50.00 - \$70.00 | \$55.00 - \$75.00                     | \$55.00 - \$75.00                     |
| After hours reconnection fees   | \$95.00           | \$165.00 - \$200.00                   | \$165.00 - \$200.00                   |

**Why did the cost of water and sewer service increase?**

The main reasons for the change include uncontrollable cost increases to IRWD attributed to:

- Pass-through charges from Orange County Water District (OCWD) for pumping local groundwater, which is still the lowest-cost water source (15.6% increase in FY 2023-24 and 6.6% increase in FY 2024-25).
- Pass-through charges from Metropolitan Water District of Southern California (MWD) for imported water purchased through the regional wholesaler, the Municipal Water District of Orange County (MWDOC) (7.8% increase in FY 2023-24 and 4.1% increase in FY 2024-25).
- Pass-through charges from Southern California Edison (SCE) for electricity used in IRWD service operations (48.6% increase in FY 2023-24 and 9.1% increase in FY 2024-25).





# Irvine Ranch Water District Notice of Proposed Water and Sewer Rate Change

- Increases in costs associated with continuing to provide the current high level of water service our customers expect, including costs associated with repairs and maintenance related to maintaining the existing infrastructure (9.9% increase in FY 2023-24 and 6.5% increase in FY 2024-25).
- Inflation.

## Automatic pass-through adjustments and other surcharges

IRWD used its best available information to calculate proposed increases in the cost of imported water purchased from MWD through MWDOC, the replenishment charges paid to OCWD for pumping groundwater, the cost for regional treatment of sewage paid to the Orange County Sanitation District (OC San), and the cost of electricity charged by SCE. IRWD has no control over the charges set by regional agencies (MWD, MWDOC, OCWD, OC San, SCE, etc.) or penalties, taxes and fees assessed by the state, and must pass those costs through to IRWD customers. Should any of the regional agencies or the State of California adopt an additional increase (or decrease) in its charges, taxes, or fees ("pass-through amount"), IRWD may automatically recalculate its rates to include the pass-through amount. If this occurs, the automatic IRWD rate adjustment will not require a public hearing or any additional action by the IRWD Board of Directors. At least 30 days before the effective date of the adjustment, IRWD will provide its customers with notice of the expected adjustment(s), which will generally be calculated as the total projected cost increase divided by the projected annual water consumption or annual total sewage flow as appropriate. This calculation will vary as necessary to reflect IRWD's different service areas and service classes.

If the State Water Resources Control Board (State Board) imposes fines on IRWD because of a violation(s) of a State Board regulation adopted to prevent the waste or unreasonable use of water, or to promote water conservation, to the extent such violation(s) are due to consumption of water in excess of customers' water usage budgets, IRWD may levy a surcharge on the volume of water used of up to \$3.31 per hundred cubic feet. If IRWD is fined by the State Board, at least 30 days before implementing a surcharge, IRWD will provide its customers with notice of the surcharge amount(s), which will generally be calculated as the total projected fine divided by the total water use in the Inefficient and Wasteful tiers.

## Water Shortage Contingency Plan (WSCP)

IRWD is required by the California Water Code Section 10632 to prepare and adopt a Water Shortage Contingency Plan (WSCP) as part of its Urban Water Management Plan. The WSCP, adopted by IRWD on June 28, 2021, includes plans to implement locally appropriate water shortage response actions for six standard water shortage levels. The following are the rates proposed as a potential response action for each water shortage level. These rates are based on the actual cost to provide service to our customers in times of water shortage. For a detailed explanation of the District's water shortage responses, please refer to the District's WSCP at [bit.ly/wscp-2021](http://bit.ly/wscp-2021). An overview of the supply shortage response actions considered for each level of water shortage can be found on Page 33, Table 3-3 of the WSCP. Achieving the WSCP reductions for each level will require a broad approach. The table below includes the target potable water use reduction for each level, the minimum potable water budget provided at each level, and the steps necessary to meet the water shortage at each level. The District has invested in water supply reliability and is not projecting any shortages over the next two years.

Minimum potable water budgets at each level of water shortage

| Water Shortage Contingency Plan level | Target reduction | Messaging and outreach                   | Outdoor potable water landscape plant assumption<br><i>(Includes residential, dedicated irrigation, non-agricultural and CII outdoor)</i> | ET factor | Indoor gallons per capita |
|---------------------------------------|------------------|--|---|-----------|---------------------------|
| Normal/ non-shortage water budget     | 0%               | Water efficiency programs and outreach   | 40% drought-tolerant plants   | .75       | 50                        |
| Level 1<br>0-10%                      | 10%              | Expanded messaging and targeted outreach | 40% drought-tolerant plants   | .75       | 50                        |
| Level 2<br>11-20%                     | 20%              | Expanded messaging and targeted outreach | No turf; 100% drought-tolerant plants   | .625      | 50                        |
| Level 3<br>21-30%                     | 30%              | Expanded messaging and targeted outreach | No turf; 25% drought-tolerant plants; 75% native plants; tree health affected   | .35       | 40                        |
| Level 4<br>31-40%                     | 40%              | Expanded messaging and targeted outreach | No turf; 100% native plants only; tree health affected  | .25       | 32.5                      |



# Irvine Ranch Water District Notice of Proposed Water and Sewer Rate Change

|                   |     |  |              |   |                         |
|-------------------|-----|--|--------------|---|-------------------------|
| Level 5<br>41-50% | 50% | Expanded messaging and targeted outreach | No landscape | 0 | 30                      |
| Level 6<br>51%+   | 60% | Expanded messaging and targeted outreach | No landscape | 0 | Basic needs only;<br>20 |

## How a water shortage could affect rates

If IRWD experiences a water shortage, IRWD may be required to implement water shortage response actions that would include possible water rate increases due to changes in costs to provide customers with water during a shortage. The water rates at each water shortage level are shown in the following table. The IRWD Board of Directors will consider adopting these rates concurrently with the water and sewer rates discussed above. The water shortage contingency rates would only be charged to potable customers depending on the level and duration of the water shortage as defined in the WSCP, and only when conditions declared by IRWD's Board are met. Customers will receive communication of when these conditions have been met and when the water shortage contingency rates are being charged.

### Proposed water shortage contingency rates per CCF beginning July 1, 2023

| Rate tiers  | Level 1:<br>up to 10%<br>water shortage | Level 2:<br>11% to 20%<br>water shortage | Level 3:<br>21% to 30%<br>water shortage | Level 4:<br>31% to 40%<br>water shortage | Level 5:<br>41% to 50%<br>water shortage | Level 6:<br>greater than 50%<br>water shortage |
|-------------|---|--|--|--|--|--|
| Low Volume  | \$1.76                                  | \$1.76                                   | \$1.77                                   | \$1.78                                   | \$1.79                                   | \$1.82   |
| Base Rate   | \$2.59                                  | \$2.69                                   | \$2.79                                   | \$2.95                                   | \$3.24                                   | \$3.64   |
| Inefficient | \$6.41                                  | \$6.68                                   | \$6.81                                   | \$6.92                                   | \$7.50                                   | \$8.49   |
| Wasteful    | \$16.28                                 | \$17.07                                  | \$17.98                                  | \$19.09                                  | \$21.25                                  | \$24.30  |

### Proposed water shortage contingency rates per CCF beginning July 1, 2024

| Rate tiers  | Level 1:<br>up to 10%<br>water shortage | Level 2:<br>11% to 20%<br>water shortage | Level 3:<br>21% to 30%<br>water shortage | Level 4:<br>31% to 40%<br>water shortage | Level 5:<br>41% to 50%<br>water shortage | Level 6:<br>greater than 50%<br>water shortage |
|-------------|---|--|--|--|--|--|
| Low Volume  | \$1.99                                  | \$2.00                                   | \$2.00                                   | \$2.01                                   | \$2.02                                   | \$2.05   |
| Base Rate   | \$2.72                                  | \$2.84                                   | \$2.94                                   | \$3.11                                   | \$3.41                                   | \$3.79   |
| Inefficient | \$6.66                                  | \$6.74                                   | \$6.82                                   | \$6.93                                   | \$7.43                                   | \$8.38   |
| Wasteful    | \$17.25                                 | \$18.06                                  | \$18.97                                  | \$20.05                                  | \$22.18                                  | \$25.18  |

For more information regarding how the monthly water budget is calculated for each of these rates, and to use a WSCP budget-based-rate calculator, visit [IRWD.com/wscp-rates](http://IRWD.com/wscp-rates).

## Public hearing

Any customer or property owner within the IRWD service area may file a written protest for the proposed rate increases with IRWD by sending a letter to IRWD, P.O. Box 5149, Irvine, CA 92616. A valid protest letter must include your name, the address at which you receive service from IRWD, a statement of protest, and your original signature. Protest letters received by June 26, 2023, will be tabulated and presented to the Board of Directors at a public hearing regarding the rate increase to be held on June 26, 2023, at 5 p.m. in the IRWD Board Room, 15600 Sand Canyon Ave., Irvine, California. Any customer or property owner may appear at the hearing to make comments regarding the proposed rates. Protest letters may be delivered in person and must be received prior to the conclusion of the June 26, 2023, public hearing.

Pursuant to Government Code Section 53759, there is a 120-day statute of limitations for any judicial action or proceeding challenging any new, increased, or extended water and sewer fee or charge.

## Additional information

For more information about IRWD's water efficiency programs and rebates, plus tips on how you can use water more efficiently, visit [IRWD.com](http://IRWD.com). If you have questions, please contact IRWD Customer Service at 949-453-5300.



# Irvine Ranch Water District Notice of Proposed Water and Sewer Rate Change

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A critical IRWD objective is to keep costs, and therefore rates, as low as possible for our customers. Even with the proposed increase, when compared with other agencies providing similar services in Orange County, IRWD's rates are consistently among the lowest.

## Understanding basic components of your water bill

Your water bill has two basic components: variable water usage charges and service charges.

- **Variable water usage charges:** Variable costs — for the amount of water you use inside and outside each month. These charges are based on the cost of local and imported water, and other costs of providing service that vary based on usage. Some customers may also incur a pumping surcharge to cover additional pumping costs to serve their properties.
- **Service charges:** Fixed costs — to recover the fixed expenses of operating and maintaining IRWD's infrastructure. There are separate service charges for water and sewer service. These monthly fixed costs fluctuate depending on the number of days in a billing cycle.

## Variable water usage charge

Each customer is assigned a monthly water usage budget. How much you pay for each 100 cubic feet (CCF) of water depends on whether you stay within your water budget. IRWD allocates its lowest-cost water supplies for customers' usage within their monthly water budget. Higher-cost water is used to meet demands of customers' water use above their budgets. For example, groundwater from local wells is the least expensive supply, while imported water from out of state or Northern California costs the most.

Potable rates are broken into two tiers. Each tier is assigned a rate based on the actual cost of serving customers within each tier. Cost of service includes both the cost of water based on the source of water and other variable costs as detailed below. The Base rate tier is for water used within each commercial, industrial, public authority or non-residential mixed use customer's (CII) budget, which is sourced primarily from lower-cost groundwater and supplemented with imported water. The majority of imported water costs are allocated to the Wasteful tier. Expenses for districtwide conservation programs that educate customers on ways to conserve water and assist customers with conservation are included in both tiers. Additional costs associated with targeted conservation programs, urban runoff treatment, and water banking are paid only by customers with usage in the Wasteful tier because their higher usage: (i) requires individualized conservation assistance, (ii) leads to urban runoff that requires costly treatment, and (iii) requires greater water reserves through water banking to provide reliable water supplies during a drought or other water shortage. Costs are allocated to the Wasteful tier based on their share of costs to run these programs. IRWD would not need these programs if those customers remained within their individual water budgets.

Proposed variable potable water rates per CCF\* beginning July 1, 2023

| Service   | Base tier     | Wasteful tier |
|---|---------------|---------------|
| Total water source cost   | \$2.44        | \$3.89        |
| Districtwide conservation programs  | \$0.11        | \$0.11        |
| Conservation programs targeted to over-budget customers, urban runoff costs and water banking costs |               | \$11.49       |
| Rate Stabilization Fund   | (\$0.03)      |               |
| Total cost per CCF per tier proposed beginning July 2023  | \$2.52        | \$15.49       |
| Current rates   | \$2.42        | \$14.64       |
| <b>Change</b>   | <b>\$0.10</b> | <b>\$0.85</b> |

\* 1 CCF = 748 gallons



# Irvine Ranch Water District Notice of Proposed Water and Sewer Rate Change

COMMERCIAL / INDUSTRIAL / PUBLIC AUTHORITY / NON-RESIDENTIAL MIXED USE

## Proposed variable potable water rates per CCF beginning July 1, 2024

| Service   | Base tier | Wasteful tier |
|---|-----------|---------------|
| Total water source cost   | \$2.54    | \$4.15        |
| Districtwide conservation programs  | \$0.11    | \$0.11        |
| Conservation programs targeted to over-budget customers, urban runoff costs and water banking costs |           | \$12.20       |
| Total cost per CCF per tier proposed beginning July 2024  | \$2.65    | \$16.46       |
| Proposed FY 2023 – 24 rates   | \$2.52    | \$15.49       |
| Change  | \$0.13    | \$0.97        |

### How your water budget is calculated

Your monthly water usage budget represents an efficient volume of water to meet your specific water use needs and uses. IRWD establishes an individualized water budget for each CII customer based on an analysis of the indoor and outdoor water use needs. This may include an on-site assessment. Usage up to 100% of the water budget is billed at the Base rate. Usage above a customer's water budget is billed at a higher Wasteful rate because IRWD must use more expensive water to meet Wasteful demands. For more information on the potable Base and Wasteful CII rates, and all other CII rates, please visit the IRWD website at [IRWD.com/services/proposed-rates](http://IRWD.com/services/proposed-rates). If you would like additional information regarding the monthly water budget for your property, please contact Customer Service at 949-453-5300.

### Variable water charges

IRWD is proposing a variable water (commodity) charge increase as shown in the charts below. The Base Rate tier is for usage within the monthly water budget. The Wasteful tier is for water usage that exceeds the monthly water budget.

#### Summary of proposed potable commercial commodity rates

| Tier      | Percentage use of monthly water budget | Current rates per CCF | Proposed rates per CCF beginning July 1, 2023 | Proposed rates per CCF beginning July 1, 2024 |
|-----------|--|-----------------------|---|---|
| Base Rate | 0-100%                                 | \$2.42                | \$2.52  | \$2.65  |
| Wasteful  | 101%+                                  | \$14.64               | \$15.49                                       | \$16.46                                       |

#### Summary of proposed recycled water commercial commodity rates

| Tier      | Percentage use of monthly water budget | Current rates per CCF | Proposed rates per CCF beginning July 1, 2023 | Proposed rates per CCF beginning July 1, 2024 |
|-----------|--|-----------------------|---|---|
| Base Rate | 0-100%                                 | \$2.16                | \$2.36  | \$2.47  |
| Wasteful  | 101%+                                  | \$7.20                | \$9.20  | \$9.27  |

#### Temporary (construction) commodity rates

| Component | Current rates per CCF | Proposed rates per CCF beginning July 1, 2023 | Proposed rates per CCF beginning July 1, 2024 |
|-----------|-----------------------|---|---|
| Potable   | \$2.88                | \$3.08  | \$3.25  |
| Recycled  | \$1.40                | \$1.71  | \$1.75  |

#### Untreated water commercial commodity rate

| Current rate per CCF | Proposed rate per CCF beginning July 1, 2023 | Proposed rate per CCF beginning July 1, 2024 |
|----------------------|--|--|
| \$1.82               | \$2.11                                       | \$2.23                                       |

### Pumping surcharges

A pumping surcharge will be added to the variable water usage charge for customers in locations that cause IRWD to incur additional pumping costs to supply their water. The surcharge is based on the actual prevailing energy costs and varies depending upon the cost to pump water to the area served. If you live in an area affected by a pumping surcharge, the charge is itemized on your monthly bill. IRWD is proposing changes to the pumping surcharge areas. Please visit the IRWD website at [IRWD.com/services/proposed-rates](http://IRWD.com/services/proposed-rates) to see the proposed map and charges by area.



# Irvine Ranch Water District Notice of Proposed Water and Sewer Rate Change

COMMERCIAL / INDUSTRIAL / PUBLIC AUTHORITY / NON-RESIDENTIAL MIXED USE

| Proposed changes to pumping surcharge |  |   |   |
|---------------------------------------|--|---|---|
| Component                             | Current rates<br><i>(rates vary by<br/>pumping surcharge area)</i> | Proposed rates beginning<br>July 1, 2023<br><i>(rates vary by<br/>pumping surcharge area)</i> | Proposed rates beginning<br>July 1, 2024<br><i>(rates vary by<br/>pumping surcharge area)</i> |
| Potable                               | \$0.33 to \$0.79/CCF   | \$0.38 to \$1.72/CCF  | \$0.41 to \$1.88/CCF  |
| Recycled                              | \$0.14 to \$0.47/CCF   | \$0.23 to \$0.53/CCF  | \$0.25 to \$0.58/CCF  |

## Fixed water and sewer service charges

In addition to the water usage charges that you control based on the amount of water you use, your bill contains fixed charges for water service and sewer service. Fixed water service charges are based on the size of your water meter providing water flow to your property. These charges are assessed whether or not you use water that month and may increase or decrease based on the number of days in the billing period. Monthly service charges are fixed charges that cover IRWD's cost of operations, maintenance and infrastructure, and do not change based on the amount of a customer's monthly water or sewer use. Monthly service charges are based on a 30-day calendar month so billing cycles that are longer or shorter than 30 days are billed based on the proportional number of days. The fixed charge includes an amount set aside for the future inevitable repair and replacement of infrastructure such as pipes, pumping stations and treatment facilities. This way, IRWD can avoid significant one-time rate spikes when the repairs and replacements are made. These charges are not used to pay for facilities that extend service to new development.

## Fixed water service charges

The fixed monthly water service charges for CII customers are used to pay for operations and maintenance costs, including inevitable water infrastructure enhancements and replacements. The charge is based on the size of your meter.

| Proposed changes to fixed monthly water service charges for system operation and maintenance |                     |  |  |
|--|---------------------|--|--|
| Meter size   | Current meter rates | Proposed rates beginning<br>July 1, 2023 | Proposed rates beginning<br>July 1, 2024 |
| 5/8" by 3/4" Disc  | \$10.75             | \$11.85                                  | \$13.20                                  |
| 3/4" Disc  | \$16.15             | \$17.80                                  | \$19.80                                  |
| 1" Disc  | \$26.90             | \$29.65                                  | \$33.00                                  |
| 1 1/2" Disc  | \$64.50             | \$71.10                                  | \$79.20                                  |
| 2" Disc  | \$86.00             | \$94.80                                  | \$105.60                                 |
| 2" Turbo   | \$134.40            | \$148.15                                 | \$165.00                                 |
| 3" Turbo   | \$349.40            | \$385.15                                 | \$429.00                                 |
| 4" Turbo   | \$671.90            | \$740.65                                 | \$825.00                                 |
| 6" Turbo   | \$1,343.75          | \$1,481.25                               | \$1,650.00                               |
| 8" Turbo   | \$2,526.25          | \$2,073.75                               | \$2,310.00                               |
| 10" Turbo  | \$3,762.50          | \$4,147.50                               | \$4,620.00                               |
| 6" Magnetic Meter  | \$1,503.40          | \$1,659.00                               | \$1,848.00                               |
| 8" Magnetic Meter  | \$2,673.55          | \$2,947.10                               | \$3,282.85                               |
| 6" Propeller   | \$483.75            | \$533.25                                 | \$594.00                                 |
| 8" Propeller   | \$645.00            | \$711.00                                 | \$792.00                                 |
| 10" Propeller  | \$860.00            | \$948.00                                 | \$1056.00                                |
| 12" or 14" Propeller   | \$1,182.50          | \$1,303.50                               | \$1,452.00                               |
| 16", 18", or 20" Propeller   | \$2,042.50          | \$2,251.50                               | \$2,508.00                               |
| 4" Omni F-2  | \$537.50            | \$740.65                                 | \$825.00                                 |
| 6" Omni F-2  | \$1,075.00          | \$1,185.00                               | \$1,320.00                               |
| 8" Omni F-2  | \$2,526.25          | \$2,073.75                               | \$2,310.00                               |
| 1 1/2" Single Jet  | \$53.75             | \$59.25                                  | \$66.00                                  |
| 2" Single Jet  | \$86.00             | \$94.80                                  | \$105.60                                 |
| 6" Single Jet  | \$537.50            | \$592.50                                 | \$660.00                                 |





# Irvine Ranch Water District Notice of Proposed Water and Sewer Rate Change

COMMERCIAL / INDUSTRIAL / PUBLIC AUTHORITY / NON-RESIDENTIAL MIXED USE

## Fixed sewer service charges

Fixed monthly sewer service charges are used to pay for operations and maintenance costs associated with providing sewer service including inevitable sewer infrastructure enhancements and replacements of infrastructure such as pipes, pumping stations, and treatment facilities. Each customer's use of IRWD sewer service derives from the customer's use of water from IRWD. Additional fixed monthly charges for the operation and maintenance of the system are based on 90% of the volume of water used and treated in excess of 10 CCF per month, because historic use data shows that is the portion sent to IRWD's sewer system. The proposed fixed and variable monthly charges are presented below.

| Proposed changes to fixed monthly sewer service charges for system operation and maintenance |                                      |                                       |                                       |
|--|--------------------------------------|---------------------------------------|---------------------------------------|
| Monthly usage  | Current monthly rates                | Proposed rates beginning July 1, 2023 | Proposed rates beginning July 1, 2024 |
| Average water usage <= 10 CCF per month  | \$29.75                              | \$33.24                               | \$36.79                               |
| Quantity service charge (beyond 10 CCF)  | \$2.19/CCF                           | \$3.00/CCF                            | \$3.07/CCF                            |
| OC San special purpose permit discharge rate (if applicable)                                 | Up to \$1,601.28 per million gallons | Up to \$1,676.09 per million gallons  | Up to \$1,754.41 per million gallons  |

| Proposed changes for areas receiving collection service or treatment service only |                       |                                       |                                       |
|---|-----------------------|---------------------------------------|---------------------------------------|
| Monthly usage   | Current monthly rates | Proposed rates beginning July 1, 2023 | Proposed rates beginning July 1, 2024 |
| Collection service charge   | \$9.25 per unit       | \$10.95 per unit                      | \$11.55 per unit                      |
| Treatment service charge  | \$16.25 per unit      | \$19.70 per unit                      | \$20.50 per unit                      |

## Private fireline service charges

Private firelines provide water to sprinkler systems and private fire hydrants for fire suppression on private property. These include fire protection systems, such as fire protection sprinklers and private fire hydrants that are not part of, but are connected to, the public water service. Costs are billed to the customers owning the private fire protection systems and are based upon the size of the fireline.

| Proposed changes to monthly fireline service charges |                       |                                       |                                       |
|--|-----------------------|---------------------------------------|---------------------------------------|
| Private fireline size                                | Current monthly rates | Proposed rates beginning July 1, 2023 | Proposed rates beginning July 1, 2024 |
| 1"   | \$6.20                | \$7.45                                | \$7.65                                |
| 2"   | \$8.45                | \$9.75                                | \$10.15                               |
| 3"   | \$13.55               | \$14.95                               | \$15.80                               |
| 4"   | \$22.45               | \$23.90                               | \$25.50                               |
| 6"   | \$54.15               | \$56.10                               | \$60.35                               |
| 8"   | \$108.90              | \$111.65                              | \$120.50                              |
| 10"  | \$191.05              | \$195.15                              | \$210.95                              |
| 11"  | \$245.15              | \$248.75                              | \$268.95                              |
| 12"  | \$306.70              | \$310.90                              | \$336.30                              |
| Private fire hydrants                                | \$54.15               | \$34.00                               | \$36.60                               |

## Other charges

IRWD also charges for setting up new accounts for a property already connected to IRWD's service system and for reconnecting water service after it has been shut off.



# Irvine Ranch Water District Notice of Proposed Water and Sewer Rate Change

COMMERCIAL / INDUSTRIAL / PUBLIC AUTHORITY / NON-RESIDENTIAL MIXED USE

## Proposed changes to fees to set up a service account and reconnect service after a shut-off

| Component                           | Current rates | Proposed rates beginning July 1, 2023 | Proposed rates beginning July 1, 2024 |
|-------------------------------------|---------------|---------------------------------------|---------------------------------------|
| One-time setup fee for new accounts | \$25.00       | \$25.00                               | \$25.00                               |
| Shut-off reconnection fees          | \$70.00       | \$75                                  | \$75                                  |
| After hours reconnection fees       | \$95.00       | \$200.00                              | \$200.00                              |

### Why did the cost of water and sewer service increase?

The main reasons for the change include uncontrollable cost increases to IRWD attributed to:

- Pass-through charges from Orange County Water District (OCWD) for pumping local groundwater, which is still the lowest-cost water source (15.6% increase in FY 2023-24 and 6.6% increase in FY 2024-25).
- Pass-through charges from Metropolitan Water District of Southern California (MWD) for imported water purchased through the regional wholesaler, the Municipal Water District of Orange County (MWDOC) (7.8% increase in FY 2023-24 and 4.1% increase in FY 2024-25).
- Pass-through charges from Southern California Edison (SCE) for electricity used in IRWD service operations (48.6% increase in FY 2023-24 and 9.1% increase in FY 2024-25).
- Increases in costs associated with continuing to provide the current high level of water service our customers expect, including costs associated with repairs and maintenance related to maintaining the existing infrastructure (9.9% increase in FY 2023-24 and 6.5% increase in FY 2024-25).
- Inflation.

### Automatic pass-through adjustments and other surcharges

IRWD used its best available information to calculate proposed increases in the cost of imported water purchased from MWD through MWDOC, the replenishment charges paid to OCWD for pumping groundwater, the cost for regional treatment of sewage paid to the Orange County Sanitation District (OC San), and the cost of electricity charged by SCE. IRWD has no control over the charges set by regional agencies (MWD, MWDOC, OCWD, OC San, SCE, etc.) or penalties, taxes and fees assessed by the state, and must pass those costs through to IRWD customers. Should any of the regional agencies or the State of California adopt an additional increase (or decrease) in its charges, taxes, or fees ("pass-through amount"), IRWD may automatically recalculate its rates to include the pass-through amount. If this occurs, the automatic IRWD rate adjustment will not require a public hearing or any additional action by the IRWD Board of Directors. At least 30 days before the effective date of the adjustment, IRWD will provide its customers with notice of the expected adjustment(s), which will generally be calculated as the total projected cost increase divided by the projected annual water consumption or annual total sewage flow as appropriate. This calculation will vary as necessary to reflect IRWD's different service areas and service classes.

If the State Water Resources Control Board (State Board) imposes fines on IRWD because of a violation(s) of a State Board regulation adopted to prevent the waste or unreasonable use of water, or to promote water conservation, to the extent such violation(s) are due to consumption of water in excess of customers' water usage budgets, IRWD may levy a surcharge on the volume of water used of up to \$3.31 per hundred cubic feet. If IRWD is fined by the State Board, at least 30 days before implementing a surcharge, IRWD will provide its customers with notice of the surcharge amount(s), which will generally be calculated as the total projected fine divided by the total water use in the Wasteful tier.

### Water Shortage Contingency Plan (WSCP)

IRWD is required by the California Water Code Section 10632 to prepare and adopt a Water Shortage Contingency Plan (WSCP) as part of its Urban Water Management Plan. The WSCP, adopted by IRWD on June 28, 2021, includes plans to implement locally appropriate water shortage response actions for six standard water shortage levels. The following are the rates proposed as a potential response action for each water shortage level. These rates are based on the actual cost to provide service to our customers in times of water shortage. For a detailed explanation of the District's water shortage responses, please refer to the District's WSCP at [bit.ly/wscp-2021](http://bit.ly/wscp-2021). An overview of the supply shortage response actions considered for each level of water shortage can be found on Page 33, Table 3-3 of the WSCP. Achieving the WSCP reductions for each level will require a broad approach. The table below includes the target potable water use reduction for each level, the minimum potable water budget provided at each level and the steps necessary to meet the water shortage at each level. The District has invested in water supply reliability and is not projecting any shortages over the next two years.



# Irvine Ranch Water District Notice of Proposed Water and Sewer Rate Change

COMMERCIAL / INDUSTRIAL / PUBLIC AUTHORITY / NON-RESIDENTIAL MIXED USE

## Minimum potable water budgets at each level of water shortage

| Water Shortage Contingency Plan level | Target reduction | Messaging and outreach                   | Outdoor potable water landscape plant assumption<br><i>(Includes residential, dedicated irrigation, non-agricultural and CII outdoor)</i> | ET factor | Potable Commercial, Industrial and Institutional (CII) percent indoor reduction |
|---------------------------------------|------------------|--|---|-----------|---|
| Normal water budget<br>No shortage    | 0%               | Water efficiency programs and outreach   | 40% drought-tolerant plants   | .75       | 0%  |
| Level 1<br>0-10%                      | 10%              | Expanded messaging and targeted outreach | 40% drought-tolerant plants   | .75       | 0%  |
| Level 2<br>11-20%                     | 20%              | Expanded messaging and targeted outreach | No turf;<br>100% drought-tolerant plants  | .625      | 0%  |
| Level 3<br>21-30%                     | 30%              | Expanded messaging and targeted outreach | No turf; 25% drought-tolerant plants; 75% native plants; tree health affected   | .35       | 0%  |
| Level 4<br>31-40%                     | 40%              | Expanded messaging and targeted outreach | No turf; 100% native plants only; tree health affected  | .25       | 10%   |
| Level 5<br>41-50%                     | 50%              | Expanded messaging and targeted outreach | No landscape  | 0         | 20%   |
| Level 6<br>51%+                       | 60%              | Expanded messaging and targeted outreach | No landscape  | 0         | 30%   |

### How a water shortage could affect rates

If IRWD experiences a water shortage, IRWD may be required to implement water shortage response actions that would include possible water rate increases due to changes in costs to provide customers with water during a shortage. The water rates at each water shortage level are shown in the following table. The IRWD Board of Directors will consider adopting these rates concurrently with the water and sewer rates discussed above. The water shortage contingency rates would only be charged to potable customers depending on the level and duration of the water shortage as defined in the WSCP, and only when conditions declared by IRWD's Board are met. Customers will receive communication of when these conditions have been met and when the water shortage contingency rates are being charged.

### Proposed potable water shortage contingency rates per CCF beginning July 1, 2023

| Rate tiers | Level 1:<br>up to 10%<br>water shortage | Level 2:<br>11% to 20%<br>water shortage | Level 3:<br>21% to 30%<br>water shortage | Level 4:<br>31% to 40%<br>water shortage | Level 5:<br>41% to 50%<br>water shortage | Level 6:<br>greater than 50%<br>water shortage |
|------------|---|--|--|--|--|--|
| Base Rate  | \$2.59                                  | \$2.69                                   | \$2.79                                   | \$2.95                                   | \$3.24                                   | \$3.64   |
| Wasteful   | \$16.28                                 | \$17.07                                  | \$17.98                                  | \$19.09                                  | \$21.25                                  | \$24.30  |

### Proposed potable water shortage contingency rates per CCF beginning July 1, 2024

| Rate tiers | Level 1:<br>up to 10%<br>water shortage | Level 2:<br>11% to 20%<br>water shortage | Level 3:<br>21% to 30%<br>water shortage | Level 4:<br>31% to 40%<br>water shortage | Level 5:<br>41% to 50%<br>water shortage | Level 6:<br>greater than 50%<br>water shortage |
|------------|---|--|--|--|--|--|
| Base Rate  | \$2.72                                  | \$2.84                                   | \$2.94                                   | \$3.11                                   | \$3.41                                   | \$3.79   |
| Wasteful   | \$17.25                                 | \$18.06                                  | \$18.97                                  | \$20.05                                  | \$22.18                                  | \$25.18  |

For more information regarding how the monthly water budget is calculated for each of these rates, please contact customer service at 949-453-5300.





# Irvine Ranch Water District Notice of Proposed Water and Sewer Rate Change

COMMERCIAL / INDUSTRIAL / PUBLIC AUTHORITY / NON-RESIDENTIAL MIXED USE

## Public hearing

Any customer or property owner within the IRWD service area may file a written protest for the proposed rate increases with IRWD by sending a letter to IRWD, P.O. Box 5149, Irvine, CA 92616. A valid protest letter must include your name, the address at which you receive service from IRWD, a statement of protest, and your original signature. Protest letters received by June 26, 2023, will be tabulated and presented to the Board of Directors at a public hearing regarding the rate increase to be held on June 26, 2023, at 5 p.m. in the IRWD Board Room, 15600 Sand Canyon Ave., Irvine, California. Any customer or property owner may appear at the hearing to make comments regarding the proposed rates. Protest letters may be delivered in person and must be received prior to the conclusion of the June 26, 2023, public hearing.

Pursuant to Government Code Section 53759, there is a 120-day statute of limitations for any judicial action or proceeding challenging any new, increased, or extended water and sewer fee or charge.

## Additional information

For more information about IRWD's water efficiency programs and rebates, plus tips on how you can use water more efficiently, visit [IRWD.com](http://IRWD.com). If you have questions, please contact IRWD Customer Service at 949-453-5300.



Irvine Ranch Water District (IRWD) is a public agency that provides water and sewer service. Our rates are based on the actual cost to provide water and sewer service to our customers and are based on the expenses included in IRWD's budget. The IRWD Board of Directors adopted a two-year budget on April 24, 2023. The basis for the proposed rates is detailed in the Cost of Service Study, available at [IRWD.com/services/proposed-rates](http://IRWD.com/services/proposed-rates). **The proposed rates for the two years, if adopted, will be effective June 26, 2023, and will be implemented on July 1, 2023, and July 1, 2024, respectively.** The increase is due primarily to uncontrollable pass-through cost increases from regional agencies that supply water or energy services to IRWD, as well as inflation and increases in costs associated with continuing to provide the current high level of water service our customers expect. Information on how the rates are calculated is shown below.

A critical IRWD objective is to keep costs, and therefore rates, as low as possible for our customers. Even with the proposed increase, when compared with other agencies providing similar services in Orange County, IRWD's rates are consistently among the lowest.

### Understanding basic components of your water bill

Your water bill has two basic components: variable water usage charges and service charges.

- **Variable water usage charges:** Variable costs — for the amount of water you use outdoors each month. These charges are based on the cost of local and imported water, and other costs of providing service that vary based on usage. Some customers may also incur a pumping surcharge to cover additional pumping costs to serve their properties.
- **Service charges:** Fixed costs — to recover the fixed expenses of operating and maintaining IRWD's infrastructure. These monthly fixed costs fluctuate depending on the number of days in a billing cycle.

## Landscape / non-agricultural customers

### Variable water usage charge

Each customer is assigned a monthly water usage budget. How much you pay for each 100 cubic feet (CCF) of water depends on whether you stay within your water budget. IRWD allocates its lowest-cost water supplies for customers' usage within their monthly water budget. Higher-cost water is used to meet demands of customers' water use above their budgets. For example, groundwater from local wells is the least expensive supply, while imported water from out of state or Northern California costs the most.

Rates are broken into four tiers. Each tier is assigned a rate based on the actual cost of serving customers within each tier. Cost of service includes both the cost of water based on the source of water and other variable costs as detailed below. The Low Volume and Base rate tiers are for water used within each customer's budget, which for potable water is sourced primarily from lower-cost groundwater and reduces the need to import expensive water. The majority of imported water costs are allocated to the Inefficient and Wasteful tiers. Expenses for districtwide conservation programs that educate and assist customers on ways to conserve water are not included in the Low Volume rate and recycled water Base rate since customers who remain in these tiers do not need this assistance. Additional costs associated with targeted conservation programs, urban runoff treatment, and water banking (for potable only) are paid only by customers with usage in the Inefficient and Wasteful tiers because their higher usage: (i) requires individualized conservation assistance, (ii) leads to urban runoff that requires costly treatment, and (iii) requires greater water reserves through water banking to provide reliable water supplies during a drought or other water shortage. Costs are allocated among those two tiers based on their share of costs to run these programs. IRWD would not need these programs if those customers remained within their individual water budgets.

Proposed variable potable water rates per CCF\* beginning July 1, 2023

| Service   | Low Volume tier | Base tier     | Inefficient tier | Wasteful tier |
|---|-----------------|---------------|------------------|---------------|
| Total water source cost   | \$1.91          | \$2.44        | \$3.89           | \$3.89        |
| Districtwide conservation programs  |                 | \$0.11        | \$0.11           | \$0.11        |
| Conservation programs targeted to over-budget customers, urban runoff costs and water banking costs |                 |               | \$2.25           | \$11.49       |
| Rate Stabilization Fund   | (\$0.16)        | (\$0.03)      |                  |               |
| Total cost per CCF per tier proposed beginning July 2023  | \$1.75          | \$2.52        | \$6.25           | \$15.49       |
| Current rates   | \$1.53          | \$2.42        | \$5.15           | \$14.64       |
| <b>Change</b>   | <b>\$0.22</b>   | <b>\$0.10</b> | <b>\$1.10</b>    | <b>\$0.85</b> |

\* 1 CCF = 748 gallons



Proposed variable potable water rates per CCF beginning July 1, 2024

| Service   | Low Volume tier | Base tier     | Inefficient tier | Wasteful tier |
|---|-----------------|---------------|------------------|---------------|
| Total water source cost   | \$1.99          | \$2.54        | \$4.13           | \$4.15        |
| Districtwide conservation programs  |                 | \$0.11        | \$0.11           | \$0.11        |
| Conservation programs targeted to over-budget customers, urban runoff costs and water banking costs |                 |               | \$2.31           | \$12.20       |
| Total cost per CCF per tier proposed beginning July 2024  | \$1.99          | \$2.65        | \$6.55           | \$16.46       |
| Proposed FY 2023 – 24 rates   | \$1.75          | \$2.52        | \$6.25           | \$15.49       |
| <b>Change</b>   | <b>\$0.24</b>   | <b>\$0.13</b> | <b>\$0.30</b>    | <b>\$0.97</b> |

Proposed variable recycled water rates per CCF beginning July 1, 2023

| Service   | Low Volume tier | Base tier     | Inefficient tier | Wasteful tier |
|---|-----------------|---------------|------------------|---------------|
| Total water source cost   | \$1.39          | \$2.36        | \$5.10           | \$5.10        |
| Districtwide conservation programs  |                 |               | \$0.11           | \$0.11        |
| Conservation programs targeted to over-budget customers, and urban runoff costs |                 |               | \$0.04           | \$3.99        |
| Total cost per CCF per tier proposed beginning July 2023                        | \$1.39          | \$2.36        | \$5.25           | \$9.20        |
| Current rates   | \$1.23          | \$2.16        | \$4.03           | \$7.20        |
| <b>Change</b>   | <b>\$0.16</b>   | <b>\$0.20</b> | <b>\$1.22</b>    | <b>\$2.00</b> |

Proposed variable recycled water rates per CCF beginning July 1, 2024

| Service   | Low Volume tier | Base tier     | Inefficient tier | Wasteful tier |
|---|-----------------|---------------|------------------|---------------|
| Total water source cost   | \$1.43          | \$2.47        | \$5.02           | \$5.02        |
| Districtwide conservation programs  |                 |               | \$0.11           | \$0.11        |
| Conservation programs targeted to over-budget customers, and urban runoff costs |                 |               | \$0.14           | \$4.14        |
| Total cost per CCF per tier proposed beginning July 2024                        | \$1.43          | \$2.47        | \$5.27           | \$9.27        |
| Proposed FY 2023 – 24 rates   | 1.39            | \$2.36        | \$5.25           | \$9.20        |
| <b>Change</b>   | <b>\$0.04</b>   | <b>\$0.11</b> | <b>\$0.02</b>    | <b>\$0.07</b> |

How water budgets for potable landscape and recycled water customers (non-agricultural) are calculated

Your monthly water usage budget is based on your irrigated landscape area and represents an efficient volume of water to meet your individualized water needs.

- **Potable landscape water budget:** is calculated for your property using actual data from local weather stations. We multiply your irrigated landscape area (in acres) x evapotranspiration (ET) x 0.75 ET factor (assumes that your landscape is 60% warm-season turf and includes 20% additional water to account for inefficiency in your irrigation system) x 36.3 conversion factor to convert acre inches to CCF.

- ✓ CCF is the basic measurement of water use. One CCF equals 100 cubic feet of water – about 748 gallons.
- ✓ **Evapotranspiration or ET** is a measure of actual daily plant water loss.
- ✓ **ET factor** adjusts for the plants in your landscape and provides an allowance for inefficiency in your irrigation system.





Summary of proposed variable potable water rates

| Tier        | Percentage use of monthly water budget for landscape/non-ag customers | Current rates per CCF | Proposed rates per CCF beginning July 1, 2023 | Proposed rates per CCF beginning July 1, 2024 |
|-------------|---|-----------------------|---|---|
| Low Volume  | 0-40%   | \$1.53                | \$1.75  | \$1.99  |
| Base Rate   | 41-100%   | \$2.42                | \$2.52  | \$2.65  |
| Inefficient | 101-140%  | \$5.15                | \$6.25  | \$6.55  |
| Wasteful    | 141%+   | \$14.64               | \$15.49                                       | \$16.46                                       |

- **Recycled (non-agricultural) water budget:** is calculated for your property using actual data from local weather stations. We multiply your irrigated landscape area (in acres) x evapotranspiration x 0.87 ET factor (assumes that 100% of your landscape is warm-season turf and it includes 25% additional water to account for inefficiency in your irrigation system) x 36.3 conversion factor to convert acre inches to CCF.



Summary of proposed variable recycled water rates

| Tier        | Percentage use of monthly water budget for landscape/non-ag customers | Current rates per CCF | Proposed rates per CCF beginning July 1, 2023 | Proposed rates per CCF beginning July 1, 2024 |
|-------------|---|-----------------------|---|---|
| Low Volume  | 0-40%   | \$1.23                | \$1.39  | \$1.43  |
| Base Rate   | 41-100%   | \$2.16                | \$2.36  | \$2.47  |
| Inefficient | 101-140%  | \$4.03                | \$5.25  | \$5.27  |
| Wasteful    | 141%+   | \$7.20                | \$9.20  | \$9.27  |

Monthly water budgets and rate calculator available on IRWD.com

For more information about the rate tiers, the types of usage that determine the monthly water budget, how the monthly water budget is calculated, and to use the IRWD budget-based-rate calculator, please visit the IRWD website at [IRWD.com/services/proposed-rates](http://IRWD.com/services/proposed-rates). The calculator shows how staying within your monthly water budget or exceeding it will affect your monthly bill.

Pumping surcharges

A pumping surcharge will be added to the variable water usage charge for customers in locations that cause IRWD to incur additional pumping costs to supply their water. The surcharge is based on the actual prevailing energy costs and varies depending upon the cost to pump water to the area served. If you live in an area affected by a pumping surcharge, the charge is itemized on your monthly bill. IRWD is proposing changes to the pumping surcharge areas. Please visit the IRWD website at [IRWD.com/services/proposed-rates](http://IRWD.com/services/proposed-rates) to see the proposed map and charges by area.

Proposed changes to pumping surcharges

| Component | Current rates (rates vary by pumping surcharge area) | Proposed rates beginning July 1, 2023 (rates vary by pumping surcharge area) | Proposed rates beginning July 1, 2024 (rates vary by pumping surcharge area) |
|-----------|--|--|--|
| Potable   | \$0.33 to \$0.79/CCF                                 | \$0.38 to \$1.72/CCF   | \$0.41 to \$1.88/CCF   |
| Recycled  | \$0.14 to \$0.47/CCF                                 | \$0.23 to \$0.53/CCF   | \$0.25 to \$0.58/CCF   |

Fixed water service charges

In addition to the water usage charges that you control based on the amount of water you use, your bill contains fixed charges for water service. Fixed water service charges are based on the size of your water meter providing water flow to your property. These charges are assessed whether or not you use water that month and may increase or decrease based on the number of days in the billing period. The monthly fixed service charges cover IRWD's cost of operations, maintenance, and infrastructure, and do not change based on the amount of a customer's monthly water use. Monthly service charges are based on a 30-day calendar month so billing cycles that are longer or shorter than 30 days are billed based on the proportional number of days. The fixed charge includes an amount set aside for the future inevitable repair and replacement of infrastructure such as pipes, pumping stations, and treatment facilities. This way, IRWD can avoid significant one-time rate spikes when the repairs and replacements are made. These charges are not used to pay for facilities that extend service to new development. The charge is based on the size of your meter.



**Proposed fixed monthly water service charges for system operation and maintenance**

| Meter size                 | Current meter rates | Proposed rates beginning July 1, 2023 | Proposed rates beginning July 1, 2024 |
|----------------------------|---------------------|---------------------------------------|---------------------------------------|
| 5/8" by 3/4" Disc          | \$10.75             | \$11.85                               | \$13.20                               |
| 3/4" Disc                  | \$16.15             | \$17.80                               | \$19.80                               |
| 1" Disc                    | \$26.90             | \$29.65                               | \$33.00                               |
| 1 1/2" Disc                | \$64.50             | \$71.10                               | \$79.20                               |
| 2" Disc                    | \$86.00             | \$94.80                               | \$105.60                              |
| 2" Turbo                   | \$134.40            | \$148.15                              | \$165.00                              |
| 3" Turbo                   | \$349.40            | \$385.15                              | \$429.00                              |
| 4" Turbo                   | \$671.90            | \$740.65                              | \$825.00                              |
| 6" Turbo                   | \$1,343.75          | \$1,481.25                            | \$1,650.00                            |
| 8" Turbo                   | \$2,526.25          | \$2,073.75                            | \$2,310.00                            |
| 10" Turbo                  | \$3,762.50          | \$4,147.50                            | \$4,620.00                            |
| 6" Magnetic Meter          | \$1,503.40          | \$1,659.00                            | \$1,848.00                            |
| 8" Magnetic Meter          | \$2,673.55          | \$2,947.10                            | \$3,282.85                            |
| 6" Propeller               | \$483.75            | \$533.25                              | \$594.00                              |
| 8" Propeller               | \$645.00            | \$711.00                              | \$792.00                              |
| 10" Propeller              | \$860.00            | \$948.00                              | \$1,056.00                            |
| 12" or 14" Propeller       | \$1,182.50          | \$1,303.50                            | \$1,452.00                            |
| 16", 18", or 20" Propeller | \$2,042.50          | \$2,251.50                            | \$2,508.00                            |
| 4" Omni F-2                | \$537.50            | \$740.65                              | \$825.00                              |
| 6" Omni F-2                | \$1,075.00          | \$1,185.00                            | \$1,320.00                            |
| 8" Omni F-2                | \$2,526.25          | \$2,073.75                            | \$2,310.00                            |
| 1 1/2" Single Jet          | \$53.75             | \$59.25                               | \$66.00                               |
| 2" Single Jet              | \$86.00             | \$94.80                               | \$105.60                              |
| 6" Single Jet              | \$537.50            | \$592.50                              | \$660.00                              |

Your meter size and amount appear on your bill. Customers who remain in the Low Volume tier for most of the year will have a larger percentage of their bill made up of the fixed charge.

**Water Charges for Agricultural customers**

Agricultural water use charges are billed monthly based on the actual volume of water used. Because agricultural water use is highly variable month-to-month and year-to-year (e.g., based on cropping patterns) it is billed based on actual usage rather than a water budget. The water rate for agricultural customers incorporates both the variable and fixed charge components. As a result, agricultural customers are not billed a separate fixed monthly charge based on their meter size.

**Proposed changes to agricultural water rates**

| Tier      | Current rate per CCF | Proposed rate beginning July 1, 2023 | Proposed rate beginning July 1, 2024 |
|-----------|----------------------|--------------------------------------|--------------------------------------|
| Potable   | \$3.25               | \$3.48                               | \$3.63                               |
| Recycled  | \$1.70               | \$2.09                               | \$2.16                               |
| Untreated | \$1.91               | \$2.29                               | \$2.41                               |

**Other charges**

IRWD also charges for setting up new accounts for a property already connected to IRWD's service system and for reconnecting water service after it has been shut off.

**Proposed changes to fees to set up a service account and reconnect service after a shut-off**

| Component                           | Current rates   | Proposed rates beginning July 1, 2023 | Proposed rates beginning July 1, 2024 |
|-------------------------------------|-----------------|---------------------------------------|---------------------------------------|
| One-time setup fee for new accounts | \$25.00         | \$25.00                               | \$25.00                               |
| Shut-off reconnection fees          | \$50.00-\$70.00 | \$55.00 - \$75.00                     | \$55.00 - \$75.00                     |
| After hours reconnection fees       | \$95.00         | \$165.00 - \$200.00                   | \$165.00 - \$200.00                   |





### Why did the cost of water service increase?

The main reasons for the change include uncontrollable cost increases to IRWD attributed to:

- Pass-through charges from Orange County Water District (OCWD) for pumping local groundwater, which is still the lowest-cost water source (15.6% increase in FY 2023-24 and 6.6% increase in FY 2024-25).
- Pass-through charges from Metropolitan Water District of Southern California (MWD) for imported water purchased through the regional wholesaler, the Municipal Water District of Orange County (MWDOC) (7.8% increase in FY 2023-24 and 4.1% increase in FY 2024-25).
- Pass-through charges from Southern California Edison (SCE) for electricity used in IRWD service operations (48.6% increase in FY 2023-24 and 9.1% increase in FY 2024-25).
- Increases in costs associated with continuing to provide the current high level of water service our customers expect, including costs associated with repairs and maintenance related to maintaining the existing infrastructure (9.9% increase in FY 2023-24 and 6.5% increase in FY 2024-25).
- Inflation.

### Automatic pass-through adjustments and other surcharges

IRWD used its best available information to calculate proposed increases in the cost of imported water purchased from MWD through MWDOC, the replenishment charges paid to OCWD for pumping groundwater, the cost of electricity charged by SCE. IRWD has no control over the charges set by regional agencies (MWD, MWDOC, OCWD, OC San, SCE, etc.) or penalties, taxes and fees assessed by the state, and must pass those costs through to IRWD customers. Should any of the regional agencies or the State of California adopt an additional increase (or decrease) in its charges, taxes, or fees ("pass-through amount"), IRWD may automatically recalculate its rates to include the pass-through amount. If this occurs, the automatic IRWD rate adjustment will not require a public hearing or any additional action by the IRWD Board of Directors. At least 30 days before the effective date of the adjustment, IRWD will provide its customers with notice of the expected adjustment(s), which will generally be calculated as the total projected cost increase divided by the projected annual water consumption or annual total sewage flow as appropriate. This calculation will vary as necessary to reflect IRWD's different service areas and service classes.

If the State Water Resources Control Board (State Board) imposes fines on IRWD because of a violation(s) of a State Board regulation adopted to prevent the waste or unreasonable use of water, or unreasonable method of use of water or to promote water conservation, to the extent such violation(s) are due to consumption of water in excess of customers' water usage budgets, IRWD may levy a surcharge on the volume of water used of up to \$3.31 per hundred cubic feet. If IRWD is fined by the State Board, at least 30 days before implementing a surcharge, IRWD will provide its customers with notice of the surcharge amount(s), which will generally be calculated as the total projected fine divided by the total water used in the Inefficient and Wasteful tiers.

### Water Shortage Contingency Plan (WSCP)

IRWD is required by the California Water Code Section 10632 to prepare and adopt a Water Shortage Contingency Plan (WSCP) as part of its Urban Water Management Plan. The WSCP, adopted by IRWD on June 28, 2021, includes plans to implement locally appropriate water shortage response actions for six standard water shortage levels. The following are the rates proposed as a potential response action for each water shortage level. These rates are based on the actual cost to provide service to our customers in times of water shortage. For a detailed explanation of the District's water shortage responses, please refer to the District's WSCP at [bit.ly/wscp-2021](http://bit.ly/wscp-2021). An overview of the supply shortage response actions considered for each level of water shortage can be found on Page 33, Table 3-3 of the WSCP. Achieving the WSCP reductions for each level will require a broad approach. The table below includes the target potable water use reduction for each level, the minimum potable water budget provided at each level and the steps necessary to meet the water shortage at each level. The District has invested in water supply reliability and is not projecting any shortages over the next two years.

| Water Shortage Contingency Plan level | Target potable reduction | Messaging and outreach                   | Potable water landscape plant assumption<br><i>(Includes residential, dedicated irrigation, non-agricultural and CII outdoor)</i> | ET factor |
|---------------------------------------|--------------------------|--|---|-----------|
| Normal water budget<br>No Shortage    | 0%                       | Water efficiency programs and outreach   | 40% drought-tolerant plants   | .75       |
| Level 1: 0-10%                        | 10%                      | Expanded messaging and targeted outreach | 40% drought-tolerant plants   | .75       |
| Level 2: 11-20%                       | 20%                      | Expanded messaging and targeted outreach | No turf; 100% drought-tolerant plants   | .625      |



# Irvine Ranch Water District Notice of Proposed Water Rate Change

LANDSCAPE / AGRICULTURAL

|                 |     |  |   |     |
|-----------------|-----|--|---|-----|
| Level 3: 21-30% | 30% | Expanded messaging and targeted outreach | No turf; 25% drought-tolerant plants; 75% native plants; tree health affected | .35 |
| Level 4: 31-40% | 40% | Expanded messaging and targeted outreach | No turf; 100% native plants only; tree health affected                        | .25 |
| Level 5: 41-50% | 50% | Expanded messaging and targeted outreach | No landscape  | 0   |
| Level 6: 51%+   | 60% | Expanded messaging and targeted outreach | No landscape  | 0   |

## How a water shortage could affect potable rates

If IRWD experiences a water shortage, IRWD may be required to implement water shortage response actions that would include possible potable water rate increases due to changes in costs to provide customers with water during a shortage. The water rates at each water shortage level are shown in the following table. The IRWD Board of Directors will consider adopting these rates concurrently with the water rates discussed above. The water shortage contingency rates would only be charged to potable customers depending on the level and duration of the water shortage as defined in the WSCP, and only when conditions declared by IRWD's Board are met. Customers will receive communication of when these conditions have been met and when the water shortage contingency rates are being charged.

### Proposed potable water shortage contingency rates per CCF beginning July 1, 2023

| Rate tiers  | Level 1:<br>up to 10%<br>water shortage | Level 2:<br>11% to 20%<br>water shortage | Level 3:<br>21% to 30%<br>water shortage | Level 4:<br>31% to 40%<br>water shortage | Level 5:<br>41% to 50%<br>water shortage | Level 6:<br>greater than 50%<br>water shortage |
|-------------|---|--|--|--|--|--|
| Low Volume  | \$1.76                                  | \$1.76                                   | \$1.77                                   | \$1.78                                   | \$1.79                                   | \$1.82   |
| Base Rate   | \$2.59                                  | \$2.69                                   | \$2.79                                   | \$2.95                                   | \$3.24                                   | \$3.64   |
| Inefficient | \$6.41                                  | \$6.68                                   | \$6.81                                   | \$6.92                                   | \$7.50                                   | \$8.49   |
| Wasteful    | \$16.28                                 | \$17.07                                  | \$17.98                                  | \$19.09                                  | \$21.25                                  | \$24.30  |

### Proposed water shortage contingency rates per CCF beginning July 1, 2024

| Rate tiers  | Level 1:<br>up to 10%<br>water shortage | Level 2:<br>11% to 20%<br>water shortage | Level 3:<br>21% to 30%<br>water shortage | Level 4:<br>31% to 40%<br>water shortage | Level 5:<br>41% to 50%<br>water shortage | Level 6:<br>greater than 50%<br>water shortage |
|-------------|---|--|--|--|--|--|
| Low Volume  | \$1.99                                  | \$2.00                                   | \$2.00                                   | \$2.01                                   | \$2.02                                   | \$2.05   |
| Base Rate   | \$2.72                                  | \$2.84                                   | \$2.94                                   | \$3.11                                   | \$3.41                                   | \$3.79   |
| Inefficient | \$6.66                                  | \$6.74                                   | \$6.82                                   | \$6.93                                   | \$7.43                                   | \$8.38   |
| Wasteful    | \$17.25                                 | \$18.06                                  | \$18.97                                  | \$20.05                                  | \$22.18                                  | \$25.18  |

For more information regarding how the monthly water budget is calculated for each of these rates, and to use a WSCP budget-based-rate calculator, visit [IRWD.com/wscp-rates](http://IRWD.com/wscp-rates).

## Public hearing

Any customer or property owner within the IRWD service area may file a written protest for the proposed rate increases with IRWD by sending a letter to IRWD, P.O. Box 5149, Irvine, CA 92616. A valid protest letter must include your name, the address at which you receive service from IRWD, a statement of protest, and your original signature. Protest letters received by June 26, 2023, will be tabulated and presented to the Board of Directors at a public hearing regarding the rate increase to be held on June 26, 2023, at 5 p.m. in the IRWD Board Room, 15600 Sand Canyon Ave., Irvine, California. Any customer or property owner may appear at the hearing to make comments regarding the proposed rates. Protest letters may be delivered in person and must be received prior to the conclusion of the June 26, 2023, public hearing.

Pursuant to Government Code Section 53759, there is a 120-day statute of limitations for any judicial action or proceeding challenging any new, increased, or extended water and sewer fee or charge.

## Additional information

For more information about IRWD's water efficiency programs and rebates, plus tips on how you can use water more efficiently, visit [IRWD.com](http://IRWD.com). If you have questions, please contact IRWD Customer Service at 949-453-5300.



Irvine Ranch Water District (IRWD) is a public agency that provides water and sewer service. IRWD provides sewer service to the Newport/North area. Our sewer rates are based on the actual cost to provide sewer service to our customers and are based on the expenses included in IRWD's budget. The basis for the proposed rates is detailed in the Cost of Service Study, which is available at [IRWD.com/services/proposed-rates](http://IRWD.com/services/proposed-rates). The IRWD Board of Directors adopted a two-year budget on April 24, 2023. **The proposed rates for the two years, if adopted, will be effective June 26, 2023, and will be implemented on July 1, 2023, and July 1, 2024, respectively.** The increase in sewer service rates is due primarily to uncontrollable pass-through cost increases from regional agencies that supply sewage or energy services to IRWD, as well as inflation and increases in costs associated with continuing to provide the current high level of sewer service our customers expect.

A critical IRWD objective is to keep costs, and therefore rates, as low as possible for our customers. Even with the proposed increase, when compared with other agencies providing similar services in Orange County, IRWD's rates are consistently among the lowest.

### Fixed sewer service charges

Monthly service charges are fixed charges that cover IRWD's cost of operations, maintenance, and infrastructure, and do not change based on the amount of a customer's monthly sewer use. The monthly charges are billed annually and included in the property owners' annual property tax bill. The fixed charge includes an amount set aside for the future inevitable repair and replacement of infrastructure such as pipes, pumping stations, and treatment facilities. This way, IRWD can avoid significant one-time rate spikes when the repairs and replacements are made. These charges are not used to pay for facilities that extend service to new development.

| Proposed changes to fixed monthly sewer service charges for system operation and maintenance |                       |                                       |                                       |
|--|-----------------------|---------------------------------------|---------------------------------------|
| Usage  | Current monthly rates | Proposed rates beginning July 1, 2023 | Proposed rates beginning July 1, 2024 |
| Single-family homes, townhouses & condominiums   | \$29.75               | \$33.24                               | \$36.79                               |
| Apartments   | \$20.45               | \$23.10                               | \$25.70                               |

### Automatic pass-through adjustments and other surcharges

IRWD used its best available information to calculate proposed increases in the cost of regional treatment of sewage paid to the Orange County Sanitation District (OC San), and the cost of electricity charged by Southern California Edison (SCE). IRWD has no control over the amounts set by regional agencies (OC San, SCE, etc.) or penalties, taxes and fees assessed by the state, and must pass those costs through to IRWD customers. Should any of the regional agencies or the State of California adopt an additional increase (or decrease) in its charges, taxes, or fees ("pass-through amount"), IRWD may automatically recalculate its rates to include the pass-through amount. If this occurs, the automatic IRWD rate adjustment will not require a public hearing or any additional action by the IRWD Board of Directors. At least 30 days before the effective date of the adjustment, IRWD will provide its customers with notice of the expected adjustment(s), which will generally be calculated as the total projected cost increase divided by the projected annual total sewage flow as appropriate. This calculation will vary as necessary to reflect IRWD's different service areas and service classes. The adjustment will be included in the following year's property tax bill.

### Public hearing

Any customer or property owner within the IRWD service area may file a written protest for the proposed rate increases with IRWD by sending a letter to IRWD, P.O. Box 5149, Irvine, CA 92616. A valid protest letter must include your name, the address at which you receive service from IRWD, a statement of protest, and your original signature. Protest letters received by June 26, 2023, will be tabulated and presented to the Board of Directors at a public hearing regarding the rate increase to be held on June 26, 2023, at 5 p.m. in the IRWD Board Room, 15600 Sand Canyon Ave., Irvine, California. Any customer or property owner may appear at the hearing to make comments regarding the proposed rates. Protest letters may be delivered in person and must be received prior to the conclusion of the June 26, 2023, public hearing.

Pursuant to Government Code Section 53759, there is a 120-day statute of limitations for any judicial action or proceeding challenging any new, increased, or extended sewer fee or charge.

### Additional information

For more information on sewer rates, please visit [IRWD.com](http://IRWD.com). If you have questions, please contact IRWD Customer Service at 949-453-5300.



RESOLUTION NO. 2023-5

RESOLUTION OF THE BOARD OF DIRECTORS  
OF IRVINE RANCH WATER DISTRICT  
APPROVING THE DISTRICT'S OPERATING AND NON-OPERATING BUDGETS  
FOR FISCAL YEAR 2023-24 AND FISCAL YEAR 2024-25 AND DETERMINING  
COMPLIANCE WITH ARTICLE XIII B OF THE CALIFORNIA CONSTITUTION

WHEREAS, the Board of Directors of the Irvine Ranch Water District (IRWD) has considered the financial needs of IRWD for purposes of operational and non-operational costs during Fiscal Year 2023-24 and Fiscal Year 2024-25;

WHEREAS, Operating and Non-Operating Budgets, as set forth in the attached Exhibit "A", have been prepared and reviewed by this Board of Directors;

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

WHEREAS, Section 8 of Article XIII B specifically excludes user charges or fees or regulatory fees as long as such fees and charges do not produce revenues exceeding the costs reasonably borne in providing the regulation, product or service;

WHEREAS, IRWD's Operating Budget for Fiscal Year 2023-24 and Fiscal Year 2024-25 is funded from user charges that do not exceed the cost of service, and which are therefore excluded from the appropriations formula established by Article XIII B, Section 8;

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

WHEREAS, IRWD's Non-Operating Budget is funded by the proceeds of property taxes (and other monies that are not proceeds of taxes, such as connection fees, user rates and charges, contract revenue, and proceeds of bonds or other indebtedness), and include expenditures for debt service or qualified capital outlay projects pursuant to Article XIII B, Section 9 that are excluded from the appropriations limitation.

NOW, THEREFORE, the Board of Directors of IRWD DOES HEREBY RESOLVE, DETERMINE and ORDER as follows:

Section 1. That relative to appropriations subject to limitation under Article XIII B of the Constitution of the State of California, IRWD's Operating Budget for Fiscal Year 2023-24 and Fiscal Year 2024-25 is hereby determined to be funded totally by revenues other than the proceeds of taxes as defined in Article XIII B, Section 8(c). The documentation used in making such determination has been on file in the offices of IRWD for not less than fifteen days prior to the date hereof, pursuant to Section 7910 of the Government Code of the State of California.

Section 2. That IRWD's Operating and Non-Operating Budgets for Fiscal Year 2023-24 and Fiscal Year 2024-25 are in compliance with the provisions of Article XIII B of the Constitution of the State of California.

Section 3. That the Operating and Non-Operating Budgets for IRWD for Fiscal Year 2023-24 and Fiscal Year 2024-25 as set forth in the Summary of the Operating and Non-Operating Budgets dated April 24, 2023 and which are by this reference incorporated herein, are hereby approved.

ADOPTED, SIGNED AND APPROVED this 24th day of April 2023.

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

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Secretary, IRVINE RANCH WATER DISTRICT

APPROVED AS TO FORM:  
HANSON BRIDGETT

By: \_\_\_\_\_  
General Counsel

**FY 2023-24 & 2024-25  
OPERATING BUDGET  
AND RATES REVIEW**

**BOARD WORKSHOP #2**



APRIL 24, 2023



1

**SCHEDULE FOR BUDGET AND RATE ADOPTION**

|               |  |
|---------------|--|
| <b>Mar 06</b> | <b>Finance Committee Mtg / Budget Review and Preliminary Rate Recommendations</b>        |
| <b>Mar 22</b> | <b>Special Finance Committee Mtg - Budget Book Review with Directors and Rate Review</b> |
| <b>Apr 04</b> | <b>Finance Committee Mtg / Budget Review and Rate Recommendations</b>                    |
| <b>Apr 10</b> | <b>Public Workshop #1</b>  |
| <b>Apr 24</b> | <b>Public Workshop #2- Approval of Operating Budgets and Prop 218 Notices</b>            |
| <b>May 12</b> | <b>Mail Prop 218 Notices</b>   |
| <b>Jun 26</b> | <b>Public Hearing- Rates Adopted/Effective for FY 2023-24 and 2024-25</b>                |
| <b>Jul 01</b> | <b>Implementation date for FY 2023-24 Rates</b>  |



2

## BIENNIAL BUDGET AND RATES REVIEW FOR FY 2023-24 AND 2024-25

### *Presentation Agenda:*

#### **First Workshop, held on April 10:**

- FY 2023-24 and 2024-25 Budgets detailed review
  - Key operating assumptions and key drivers of the budget
  - Rate development
  - Proposed rates- standard and WSCP
- Comparison of proposed rates with other agencies
- Schedule for budget and rate adoption

#### **Tonight's Workshop:**

- FY 2023-24 and 2024-25 budgets review
- Comparison of proposed rates
- Non-Operating net income recap
- Review of the proposition 218 notices
- Approve operating budgets and Prop 218 notices
- Recommendations and next steps



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## CONSOLIDATED OPERATING BUDGETS

### Key Drivers Comparison

| (millions)                      | FY 23-24        | FY 24-25        | Increase /<br>(Decrease) | % Change    |
|---------------------------------|-----------------|-----------------|--------------------------|-------------|
| Salaries and Benefits           | \$ 80.4         | \$ 85.8         | \$ 5.4                   | 6.7%        |
| Water                           | 53.0            | 56.5            | 3.5                      | 6.6%        |
| Electricity                     | 28.4            | 30.8            | 2.4                      | 8.5%        |
| Repairs and Maintenance         | 21.0            | 22.3            | 1.3                      | 6.2%        |
| Other Expenses                  | 43.8            | 45.4            | 1.6                      | 3.7%        |
| Total Proposed Operating Budget | \$ 226.6        | \$ 240.8        | \$ 14.2                  | 6.3%        |
| Reimbursement from Partners     | (5.9)           | (6.3)           | (0.4)                    | 6.8%        |
| Proposed Net Operating Budget   | <u>\$ 220.7</u> | <u>\$ 234.5</u> | <u>\$ 13.8</u>           | <u>6.3%</u> |



4

4

## RATE DEVELOPMENT FOR FY 2023-24

### OPERATING NET INCOME BY SYSTEM

| (in thousands)                                       | Water       | Recycled    | Sewer       | Conserve<br>& NTS | Total       |
|--|-------------|-------------|-------------|-------------------|-------------|
| <b>Revenue:</b>                                      |             |             |             |                   |             |
| Commodity  | \$ 60,063   | \$ 29,302   | \$ -        | \$ 17,175         | \$ 106,540  |
| Service  | 45,409      | 9,765       | 66,081      | -                 | 121,255     |
| Rate Stabilization                                   | 3,894       | -           | 3,288       | -                 | 7,182       |
| Total Revenues                                       | \$ 109,366  | \$ 39,067   | \$ 69,369   | \$ 17,175         | \$ 234,977  |
| Contribution to Enhancement<br>and Replacement Funds | (9,456)     | (1,271)     | (23,283)    | -                 | (34,010)    |
| Net Revenues   | \$ 99,910   | \$ 37,796   | \$ 46,086   | \$ 17,175         | \$ 200,967  |
| <b>Expenses:</b>                                     |             |             |             |                   |             |
| Salaries and Benefits                                | \$ 19,920   | \$ 9,046    | \$ 17,909   | \$ 5,921          | \$ 52,796   |
| Water  | 45,072      | 7,911       | -           | -                 | 52,983      |
| Repairs and Maintenance                              | 5,372       | 1,359       | 4,857       | 3,239             | 14,827      |
| OCSAN - O&M  | -           | -           | 4,207       | -                 | 4,207       |
| Electricity  | 15,307      | 8,616       | 3,409       | 449               | 27,781      |
| All Other Operating Expenses                         | 14,239      | 10,864      | 15,704      | 7,566             | 48,373      |
| Total Expenses                                       | \$ 99,910   | \$ 37,796   | \$ 46,086   | \$ 17,175         | \$ 200,967  |
| <b>Net Operating Position</b>                        | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b>       | <b>\$ -</b> |



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## RATE DEVELOPMENT FOR FY 2024-25

### OPERATING NET INCOME BY SYSTEM

| (in thousands)                                       | Water       | Recycled    | Sewer       | Conserve<br>& NTS | Total       |
|--|-------------|-------------|-------------|-------------------|-------------|
| <b>Revenue:</b>                                      |             |             |             |                   |             |
| Commodity  | \$ 65,520   | \$ 30,803   | \$ -        | \$ 18,308         | \$ 114,631  |
| Service  | 50,825      | 10,993      | 73,478      | -                 | 135,296     |
| Rate Stabilization                                   | 165         | -           | 332         | -                 | 497         |
| Total Revenues                                       | \$ 116,510  | \$ 41,796   | \$ 73,810   | \$ 18,308         | \$ 250,424  |
| Contribution to Enhancement<br>and Replacement Funds | (10,250)    | (1,375)     | (25,675)    | -                 | (37,300)    |
| Net Revenues   | \$ 106,260  | \$ 40,421   | \$ 48,135   | \$ 18,308         | \$ 213,124  |
| <b>Expenses:</b>                                     |             |             |             |                   |             |
| Salaries and Benefits                                | \$ 21,323   | \$ 9,748    | \$ 19,344   | \$ 6,217          | \$ 56,632   |
| Water  | 47,562      | 8,890       | -           | -                 | 56,452      |
| Repairs and Maintenance                              | 5,889       | 1,427       | 4,821       | 3,976             | 16,113      |
| OCSAN - O&M  | -           | -           | 4,212       | -                 | 4,212       |
| Electricity  | 16,761      | 9,318       | 3,627       | 474               | 30,180      |
| All Other Operating Expenses                         | 14,725      | 11,038      | 16,131      | 7,641             | 49,535      |
| Total Expenses                                       | \$ 106,260  | \$ 40,421   | \$ 48,135   | \$ 18,308         | \$ 213,124  |
| <b>Net Operating Position</b>                        | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b> | <b>\$ -</b>       | <b>\$ -</b> |



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6

# PROPOSED RATES



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## WSCP RATES

### FY 2023-24

| LEVEL       | Current | 0              | 1       | 2       | 3       | 4       | 5       | 6       |
|-------------|---------|----------------|---------|---------|---------|---------|---------|---------|
| Low Volume  | \$1.53  | <b>\$1.75</b>  | \$1.76  | \$1.76  | \$1.77  | \$1.78  | \$1.79  | \$1.82  |
| Base        | \$2.42  | <b>\$2.52</b>  | \$2.59  | \$2.69  | \$2.79  | \$2.95  | \$3.24  | \$3.64  |
| Inefficient | \$5.15  | <b>\$6.25</b>  | \$6.41  | \$6.68  | \$6.81  | \$6.92  | \$7.50  | \$8.49  |
| Wasteful    | \$14.64 | <b>\$15.49</b> | \$16.28 | \$17.07 | \$17.98 | \$19.09 | \$21.25 | \$24.30 |

### FY 2024-25

| LEVEL       | FY 23-24 | 0              | 1              | 2              | 3              | 4              | 5              | 6              |
|-------------|----------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Low Volume  | \$1.75   | <b>\$1.99</b>  | \$1.99         | \$2.00         | \$2.00         | \$2.01         | \$2.02         | \$2.05         |
| Base        | \$2.52   | <b>\$2.65</b>  | \$2.72         | \$2.84         | \$2.94         | \$3.11         | \$3.41         | \$3.79         |
| Inefficient | \$6.25   | <b>\$6.55</b>  | <b>\$6.66</b>  | <b>\$6.74</b>  | <b>\$6.82</b>  | <b>\$6.93</b>  | <b>\$7.43</b>  | <b>\$8.38</b>  |
| Wasteful    | \$15.49  | <b>\$16.46</b> | <b>\$17.25</b> | <b>\$18.06</b> | <b>\$18.97</b> | <b>\$20.05</b> | <b>\$22.18</b> | <b>\$25.18</b> |

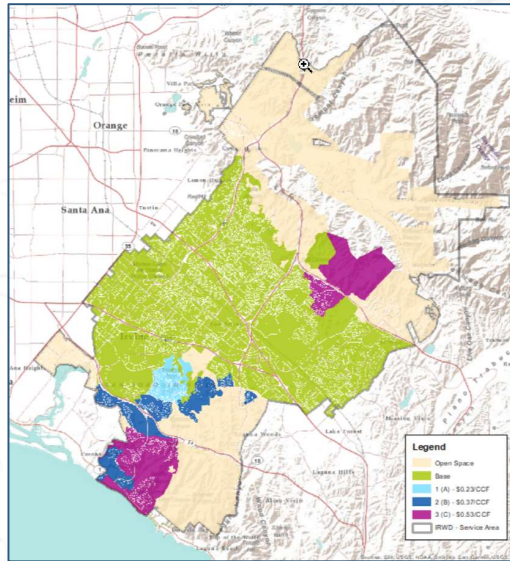


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## PUMPING SURCHARGE AREAS - RECYCLED PROPOSED

| Recycled Zones              | CI (\$/CCF /year) | Proposed Surcharge Areas | %   |
|-----------------------------|-------------------|--------------------------|-----|
| Zone A North and South      | \$-               | Base                     | 74% |
| Lake Forest A (No 1/2)      | \$0.03            | Base                     |     |
| Laguna Zone B               | \$0.04            | Base                     |     |
| Northwood Zone B            | \$0.05            | Base                     |     |
| Lake Forest B (East/West)   | \$0.06            | Base                     |     |
| Oso Reservoir               | \$0.08            | Base                     |     |
| TRK_B_t_000 (Turtle Rock)   | \$0.23            | 1                        | 12% |
| Northern Zone C             | \$0.36            | 2                        | 2%  |
| Coastal Zone D + Zone D TRG | \$0.39            | 2                        |     |
| Coastal Zone G              | \$0.50            | 3                        | 12% |
| Zone H NPC                  | \$0.51            | 3                        |     |
| Portola Springs Zone D      | \$0.58            | 3                        |     |



9

9

## OPERATING BUDGET AND RATES REVIEW

| Typical Residential Customer                  | Current Rate   | Proposed Rate  | Change        |             | Proposed Rate  | Change        |             |
|---|----------------|----------------|---------------|-------------|----------------|---------------|-------------|
|   | FY 2022-23     | FY 2023-24     | Rate          | %           | FY 2024-25     | Rate          | %           |
| <b>Water</b>                                  |                |                |               |             |                |               |             |
| Service Charge *                              | \$10.75        | \$11.85        | \$1.10        |             | \$13.20        | \$1.35        |             |
| Commodity Charge **                           | 24.59          | 26.39          | 1.80          |             | 28.50          | 2.11          |             |
| <b>Total Water Charge</b>                     | <b>\$35.34</b> | <b>\$38.24</b> | <b>\$2.90</b> |             | <b>\$41.70</b> | <b>\$3.46</b> |             |
| <b>Sewer</b>                                  |                |                |               |             |                |               |             |
| Service Charge *                              | \$20.45        | \$23.10        | \$2.65        |             | \$25.70        | \$2.60        |             |
| <b>Total Typical Residential Monthly Bill</b> | <b>\$55.79</b> | <b>\$61.34</b> | <b>\$5.55</b> | <b>9.9%</b> | <b>\$67.40</b> | <b>\$6.06</b> | <b>9.9%</b> |

\* Treated water service charge assumes a 5/8" x 3/4" meter. Both the water and sewer service charges include components for enhancement and replacement capital. No additions have been included for either fund.

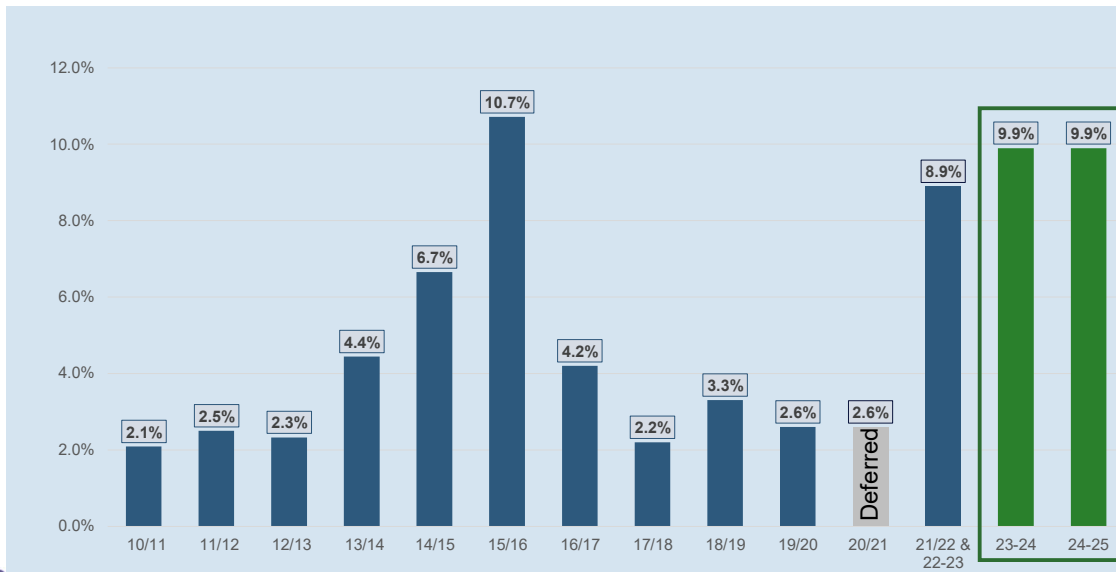
\*\* Commodity charges for a typical residential customer are based on 12 ccf (District average).  
 Current Rates: Low Volume \$1.53 Base \$2.42  
 Proposed FY 2023-24: Low Volume \$1.75 Base \$2.52  
 Proposed FY 2024-25: Low Volume \$1.99 Base \$2.65



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## AVERAGE YEARLY RATE INCREASE HISTORY

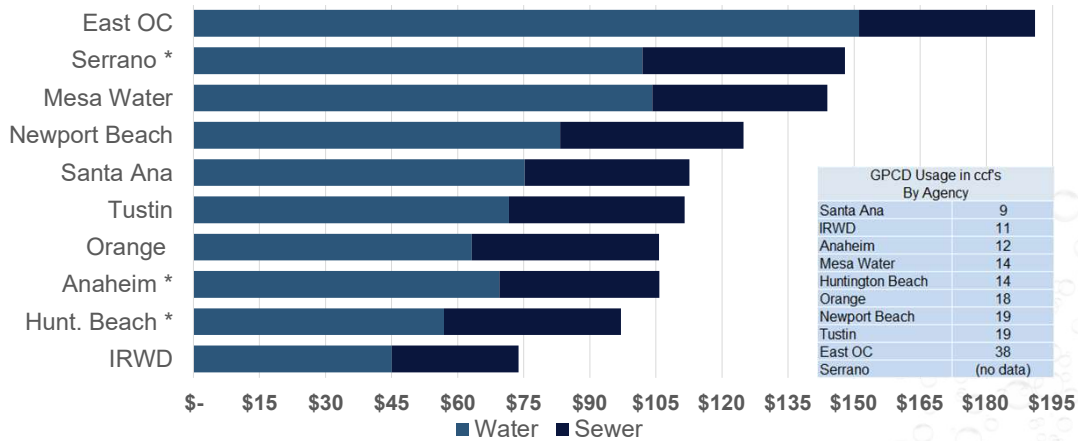


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## RATES COMPARISON FOR FY 2023-24

Monthly Water & Sewer Bill Based on 15 ccf of Usage and Groundwater Availability



\* Updated rates are not available at this time.



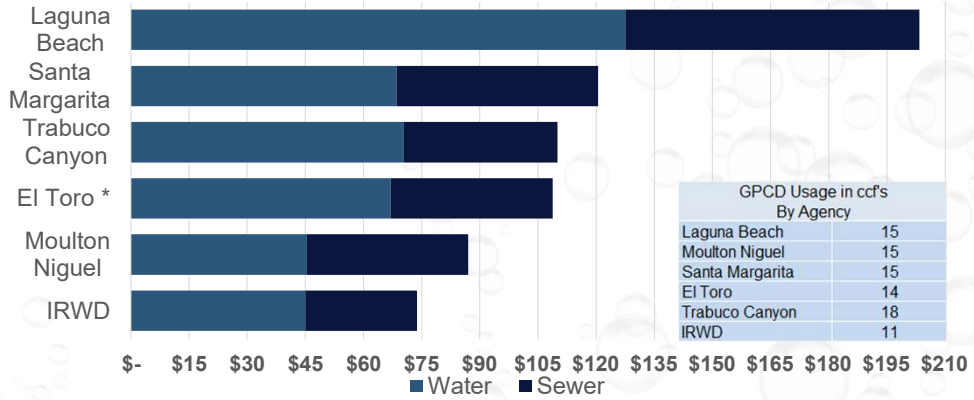
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## RATES COMPARISON FOR FY 2023-24

Monthly Water & Sewer Bill Based on 15 ccf Usage and Imported Water



\* Updated rates are not available at this time.



## NON-OPERATING NET INCOME



## NON-OPERATING NET INCOME FOR FY 2023-24

| (in thousands)       | <u>FY 2022-23</u> | <u>FY 2023-24</u> | <u>Change</u>    |
|----------------------|-------------------|-------------------|------------------|
| <b>Revenues:</b>     |                   |                   |                  |
| Property Taxes       | \$ 73,000         | \$ 78,600         | \$ 5,600         |
| Investment Income    | 2,080             | 11,200            | 9,120            |
| Connection Fees      | 13,000            | 12,000            | (1,000)          |
| Real Estate Income   | 18,180            | 19,700            | 1,520            |
| Other Income         | 7,000             | 7,000             | -                |
| <b>Total Revenue</b> | <u>\$ 113,260</u> | <u>\$ 128,500</u> | <u>\$ 15,240</u> |
| <b>Expenses:</b>     |                   |                   |                  |
| Interest Expense     | \$ 21,280         | \$ 27,900         | \$ 6,620         |
| Real Estate Expense  | 6,340             | 7,800             | 1,460            |
| Other Expenses       | 1,500             | 1,500             | -                |
| <b>Total Expense</b> | <u>\$ 29,120</u>  | <u>\$ 37,200</u>  | <u>\$ 8,080</u>  |
| <b>Net Income</b>    | <u>\$ 84,140</u>  | <u>\$ 91,300</u>  | <u>\$ 7,160</u>  |



15

15

## NON-OPERATING NET INCOME FOR FY 2024-25

| (in thousands)       | <u>FY 2023-24</u> | <u>FY 2024-25</u> | <u>Change</u>   |
|----------------------|-------------------|-------------------|-----------------|
| <b>Revenues:</b>     |                   |                   |                 |
| Property Taxes       | \$ 78,600         | \$ 81,700         | \$ 3,100        |
| Investment Income    | 11,200            | 8,500             | (2,700)         |
| Connection Fees      | 12,000            | 11,000            | (1,000)         |
| Real Estate Income   | 19,700            | 20,300            | 600             |
| Other Income         | 7,000             | 7,000             | -               |
| <b>Total Revenue</b> | <u>\$ 128,500</u> | <u>\$ 128,500</u> | <u>\$ -</u>     |
| <b>Expenses:</b>     |                   |                   |                 |
| Interest Expense     | \$ 27,900         | \$ 27,500         | \$ (400)        |
| Real Estate Expense  | 7,800             | 8,100             | 300             |
| Other Expenses       | 1,500             | 1,500             | -               |
| <b>Total Expense</b> | <u>\$ 37,200</u>  | <u>\$ 37,100</u>  | <u>\$ (100)</u> |
| <b>Net Income</b>    | <u>\$ 91,300</u>  | <u>\$ 91,400</u>  | <u>\$ 100</u>   |



16

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17



## PROPOSITION 218 NOTICES

**Components of the Four Separate Prop 218 Notices:**

- Water budget and basic rate components
- Proposed variable rates including rate builds
- How a water budget is calculated
- Pumping surcharges
- Proposed monthly fixed service charges
- Other rates
- Why rates are increasing
- WSCP Rates

**Notice Requirements:**

- Automatic pass-through adjustments
- Potential Surcharge – State Water Resources Control Board
- Public Hearing date and location: June 26, 2023 in the IRWD Board Room

18



19


**RECOMMENDATION AND NEXT STEPS**


**RECOMMENDED BOARD ACTIONS:**

- 1 Approve the Operating Budgets for FY 2023-24 and 2024-25**
- 2 Approve the Proposition 218 Notices**

**NEXT STEPS:**

- ◆ **Mail Proposition 218 Notices ( approx. May 12)**
- ◆ **Independent auditors to receive and tabulate responses over 45-day period**
- ◆ **June 26, 2023: Adopt proposed Rates & Charges to be implemented July 1, 2023**
- ◆ **First bills with application of new rates will occur in August 2023**

 Irvine Ranch Water District

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20

## RECOMMENDATION

That the Board approve the Fiscal Year 2023-24 and Fiscal Year 2024-25 Operating budgets and approve the Proposition 218 Notices subject to non-substantive changes.

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April 24, 2023

Prepared by: D. Johnson / M. Robinson /  
E. Akiyoshi

Submitted by: K. Burton

Approved by: Paul A. Cook *PAK*

## BOARD WORKSHOP

### CAPITAL BUDGET AND LONG-TERM CAPITAL PROGRAM FOR FISCAL YEARS 2023-24 AND 2024-25

#### SUMMARY:

At the Board Workshop, staff will present the IRWD Capital Budget and Long-Term Capital Program for Fiscal Years (FY) 2023-24 and 2024-25. The forecasted capital expenditures for FY 2023-24 and FY 2024-25 are \$105.1 and \$111.0 million, respectively. Staff recommends that the Board adopt a resolution approving the Capital Budget for Fiscal Years 2023-24 and 2024-25.

#### BACKGROUND:

Since 2019, IRWD has reviewed and approved the Capital Budget on a biennial cycle. The draft presentation, provided as Exhibit “A”, includes a review of the FY 2021-22 and FY 2022-23 earned value, a preview of the forecasted FY 2023-24 and FY 2024-25 capital expenditures, and an update on the Long-Term Capital Program.

For the past two fiscal years (FY 2021-22 and FY 2022-23), forecasted expenditures were originally estimated at \$181.2 million. Actual expenditures are on target for \$145.6 million, approximately 80% of forecasted expenditures. The estimated capital expenditures for FY 2023-24 and FY 2024-25 are \$105.1 and \$111.0 million, respectively.

#### FISCAL IMPACTS:

The following table shows the major expenditure groups for FY 2023-24 and FY 2024-25:

| <b>Expenditure Group Description</b> | <b>FY 2023-24<br/>(\$ Million)</b> | <b>FY 2024-25<br/>(\$ Million)</b> |
|--------------------------------------|------------------------------------|------------------------------------|
| Operational Improvements             | 34.4                               | 13.9                               |
| Replacement – Facilities             | 33.3                               | 50.2                               |
| OC San – CORF                        | 11.9                               | 12.2                               |
| Development                          | 6.8                                | 12.4                               |
| Water Banking                        | 5.0                                | 5.9                                |
| Non-potable Storage                  | 4.3                                | 7.2                                |
| General Plant                        | 3.1                                | 2.4                                |
| Sewage Treatment                     | 2.7                                | 2.8                                |
| Planning                             | 1.9                                | 2.2                                |
| Water Resources                      | 1.1                                | 1.1                                |
| OCWD Annexation                      | 0.6                                | 0.7                                |
| <i>Total:</i>                        | <i>105.1</i>                       | <i>111.0</i>                       |

The Capital Budget for FY 2023-24 and 2024-25, provided as Exhibit “B”, provides details on all capital projects with anticipated expenditures in FY 2023-24 and 2024-25 and Exhibit “C” provides a resolution approving the Capital Budgets.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

This item was reviewed by the Engineering & Operations Committee on April 19, 2023.

RECOMMENDATION:

THAT THE BOARD ADOPT THE FOLLOWING RESOLUTION BY TITLE;

RESOLUTION NO. 2023 – 6

RESOLUTION OF THE BOARD OF DIRECTORS  
OF IRVINE RANCH WATER DISTRICT APPROVING  
THE DISTRICT’S CAPITAL BUDGET FOR FISCAL YEARS 2023-24 AND 2024-25

LIST OF EXHIBITS:

Exhibit “A” – Capital Budget Presentation  
Exhibit “B” – Capital Budget for FY 2023-24 and 2024-25  
Exhibit “C” – Resolution approving the Capital Budget



# CAPITAL BUDGET AND LONG-TERM CAPITAL PROGRAM

## FISCAL YEARS 2023-24 AND 2024-25

Board of Directors  
April 24, 2023



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## PRESENTATION OUTLINE

- Two-Year Capital Budget
  - Review FY 2021-22 & 2022-23 Capital Budget
  - Development Update
  - Proposed FY 2023-24 & 2024-25 Capital Budget
- Long-Term Capital Program



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## TWO-YEAR CAPITAL BUDGET



## TWO-YEAR CAPITAL BUDGET

- Accomplishes the following objectives:
  - Forecasts work effort and two-year capital expenditures
  - Identifies all capital projects for next two years
  - Reflects Board approval for the capital budgets
  - Identifies “Flagged” projects for further Board discussion
  - Aligns with the two-year Operating Budget cycle, and includes General Plant projects

## PREVIOUS FORECAST VS. ACTUAL EARNED VALUE

- Earned Value includes actual expenditures and work completed but not yet invoiced
- FY 2021-22 & 2022-23 Capital Expenditures
  - Forecast for past two-year expenditures is \$181.2 M
  - Actual Earned Value is \$145.6 M (≈80%)



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## COMPARE PREVIOUS FORECAST TO ACTUAL EARNED VALUE

| No. | Description                   | Forecast (\$ Millions) | Earned Value (\$ Millions) | Delta (\$ Millions) |
|-----|-------------------------------|------------------------|----------------------------|---------------------|
| 1   | Water Banking                 | 35.5                   | 8.9                        | (26.6)              |
| 2   | Sewage Treatment              | 7.3                    | 0.1                        | (7.2)               |
| 3   | Planning                      | 4.0                    | 1.8                        | (2.2)               |
| 4   | Water Resources               | 2.6                    | 0.9                        | (1.7)               |
| 5   | Nonpotable Storage            | 13.3                   | 11.7                       | (1.6)               |
| 6   | Replacement - Facilities      | 74.6                   | 73.1                       | (1.5)               |
| 7   | General Plant                 | 3.7                    | 2.6                        | (1.1)               |
| 8   | Replacement-Business Software | 2.1                    | 1.8                        | (0.3)               |
| 9   | OCWD Annexation               | 1.2                    | 1.1                        | (0.1)               |
| 10  | Baker WTP                     | 0.3                    | 0.2                        | (0.1)               |
| 12  | Operational Improvements      | 24.9                   | 25.8                       | 0.9                 |
| 13  | Property Management           | 4.5                    | 6.0                        | 1.5                 |
| 14  | Development                   | 7.3                    | 11.6                       | 4.3                 |
|     | <b>Subtotal</b>               | <b>181.2</b>           | <b>145.6</b>               | <b>(35.6)</b>       |



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## UPDATE ON DEVELOPMENT

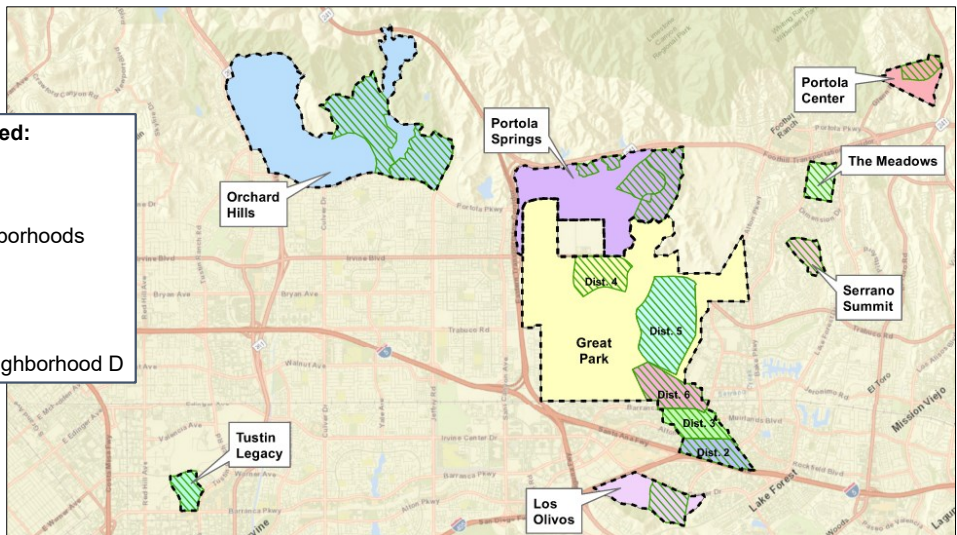


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## REVIEW DEVELOPMENT FY 2021-22 AND FY 2022-23

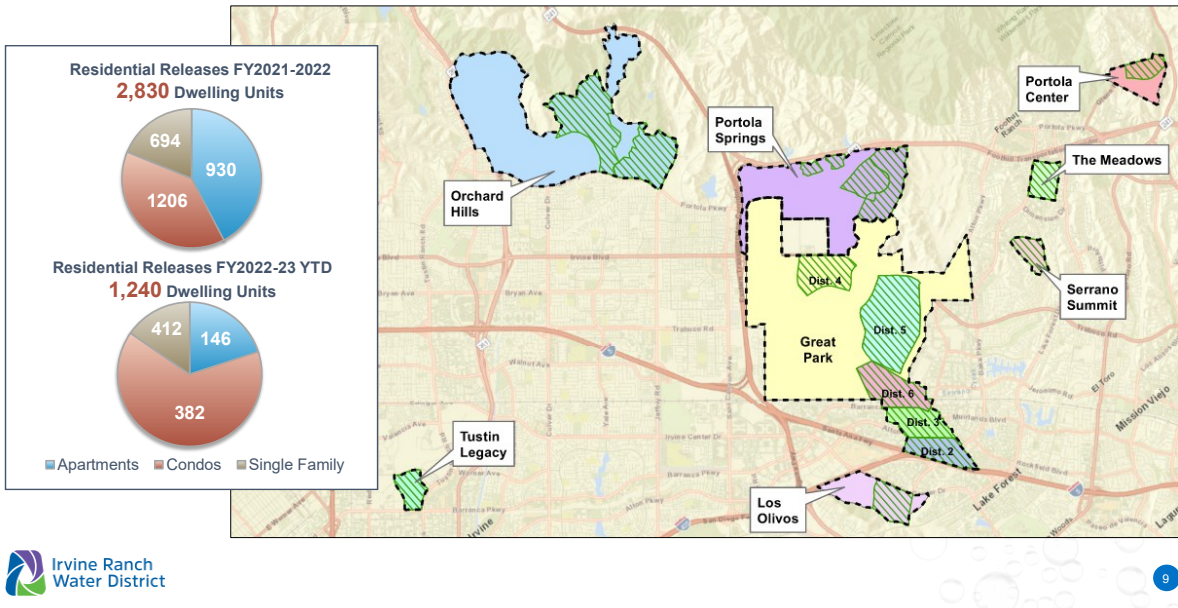
### Active Areas Included:

- Portola Center
- Orchard Hills
- Portola Springs
- Great Park Neighborhoods (2,3,4,5, and 6)
- Los Olivos
- Serrano Summit
- The Meadows
- Tustin Legacy Neighborhood D



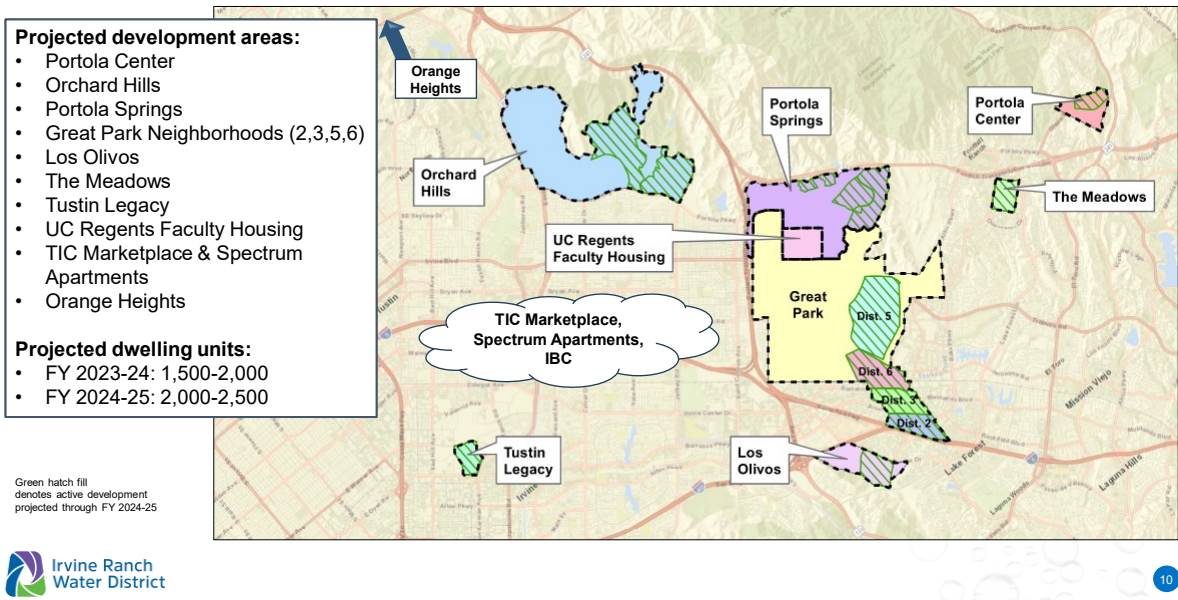
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# REVIEW DEVELOPMENT FY 2021-22 AND FY 2022-23



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# PROJECTED DEVELOPMENT THROUGH FY 2024-25



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## PROPOSED CAPITAL BUDGET FISCAL YEARS 2023-24 AND 2024-25



## FY 2023-24 AND 2024-25 FORECAST EXPENDITURES BY CATEGORY

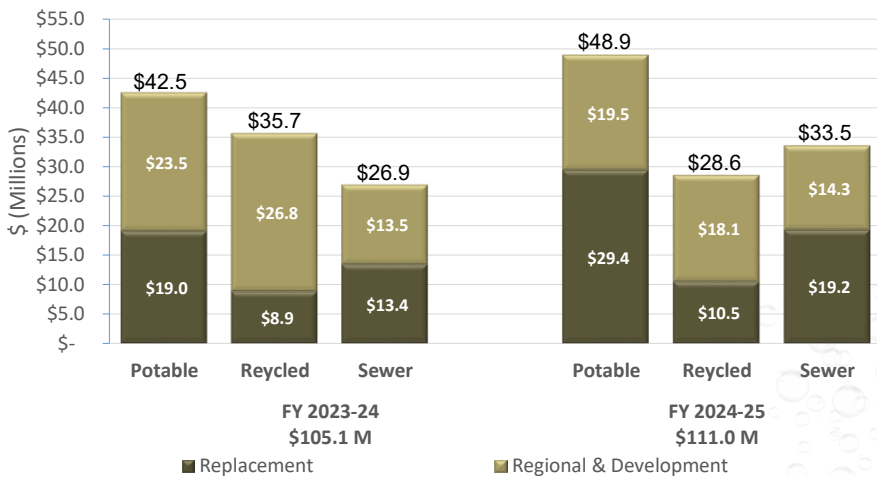
| Description              | FY 2023-24 Forecast<br>Expenditures<br>(\$ Millions) | FY 2024-25 Forecast<br>Expenditures<br>(\$ Millions) |
|--------------------------|--|--|
| Operational Improvements | 34.4   | 13.9   |
| Replacement - Facilities | 33.3   | 50.2   |
| OC San - CORF            | 11.9   | 12.2   |
| Development              | 6.8  | 12.4   |
| Water Banking            | 5.0  | 5.9  |
| Nonpotable Storage       | 4.3  | 7.2  |
| General Plant            | 3.1  | 2.4  |
| Sewage Treatment         | 2.7  | 2.8  |
| Planning                 | 1.9  | 2.2  |
| Water Resources          | 1.1  | 1.1  |
| OCWD Annexation          | 0.6  | 0.7  |
| <b>Total</b>             | <b>105.1</b>   | <b>111.0</b>   |

# TOP EXPENDITURE PROJECTS

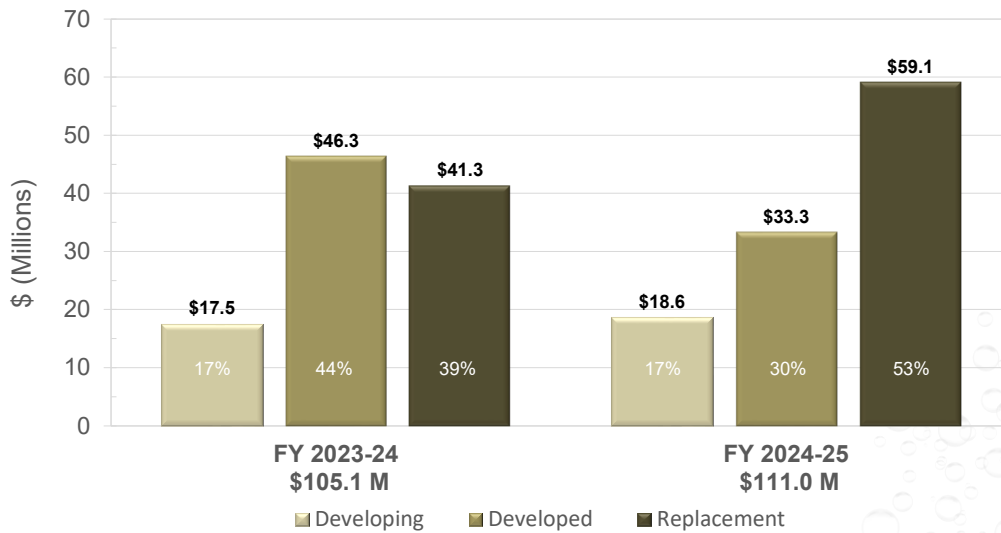
| Fiscal Year         | Description  | Expenditure Category     | Forecasted Expenditures (\$ Millions) |
|---------------------|--|--------------------------|---------------------------------------|
| Fiscal Year 2023-24 | SAN JOAQUIN RESERVOIR FILTRATION FACILITY                    | Operational Improvements | 14.2                                  |
|                     | GENERAL SYSTEM REPLACEMENTS AND MODIFICATIONS DW/SS/RW 23/24 | Replacement - Facilities | 10.2                                  |
|                     | OC SAN CORF  | OC San CORF              | 7.8                                   |
|                     | KERN FAN GROUNDWATER STORAGE                                 | Water Banking            | 4.7                                   |
|                     | SYPHON RESERVOIR IMPROVEMENTS                                | Nonpotable Storage       | 4.3                                   |
|                     | FLEMING DW RESERVOIR AND PUMP STATION IMPROVEMENTS           | Operational Improvements | 4.2                                   |
| Fiscal Year 2024-25 | GENERAL SYSTEM REPLACEMENTS AND MODIFICATIONS DW/SS/RW 24/25 | Replacement - Facilities | 10.2                                  |
|                     | SANTIAGO DAM OUTLET AND SPILLWAY                             | Replacement - Facilities | 8.7                                   |
|                     | SYPHON RESERVOIR IMPROVEMENTS                                | Nonpotable Storage       | 7.2                                   |
|                     | OC SAN CORF  | OC San CORF              | 7.0                                   |
|                     | KERN FAN GROUNDWATER STORAGE                                 | Water Banking            | 5.6                                   |
|                     | SAN JOAQUIN RESERVOIR FILTRATION FACILITY                    | Operational Improvements | 5.2                                   |



# EXPENDITURES BY SYSTEM



## FUNDING SOURCES



15

## LONG-TERM CAPITAL PROGRAM



16



## DEFINITIONS

- **Replacement Planning Model (RPM)**
  - Estimates 50-year timing and replacement costs for all vertical and linear facilities
  - Provides input to Financial Replacement Model (FRPM) for developing replacement funding policies
- **Long-Term Capital Program (LTCP)**
  - Identifies all planned replacement, regional, and development projects
  - Includes actual projects from the Two-Year Capital Budget
  - Includes all replacement costs in the RPM
- **Financial Replacement Planning Model (FRPM)**
  - Combines output from RPM and revenue streams to develop funding strategies

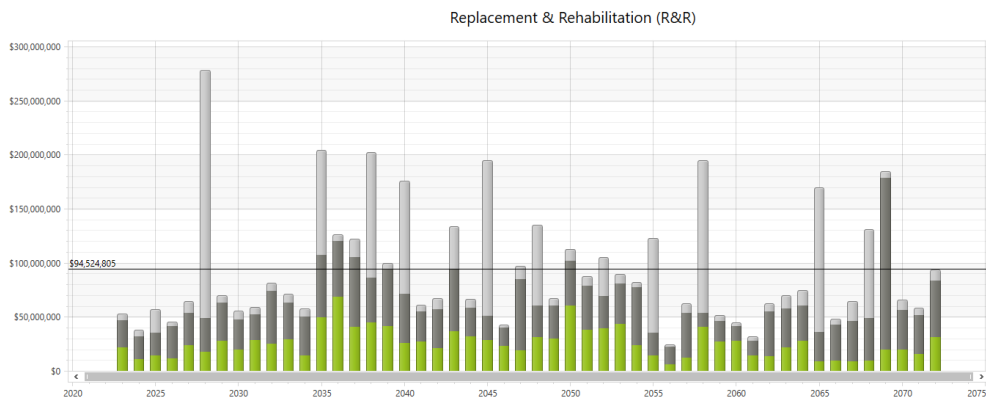


17

17

## LTCP: REPLACEMENT PROJECTS

- Replacement Planning Model 50-Year Estimate = \$4.7 billion (non-escalated)
- Average R&R = \$94 million / Year



18

18

## LTCP: REGIONAL AND DEVELOPMENT PROJECTS

| Component  | Regional and Development Projects |
|--|-----------------------------------|
| Remaining LTCP on July 1, 2021                     | \$602 M                           |
| Expenditures for FY 2021-22 and 2022-23            | (\$50 M)                          |
| Mid-Cycle Regional and Development Board Approvals | \$56 M                            |
| Regional and Development Project Additions         | \$9 M                             |
| <b>Remaining LTCP: Regional and Development</b>    | <b>\$617 M</b>                    |

All costs and expenditures account for applicable offsets



19

19

## LONG-TERM CAPITAL PROGRAM SUMMARY

| Component                         | Total            |
|-----------------------------------|------------------|
| Replacement Projects              | \$4,700 M        |
| Regional and Development Projects | \$617 M          |
| <b>Total LTCP</b>                 | <b>\$5,317 M</b> |

All costs and expenditures account for applicable offsets.

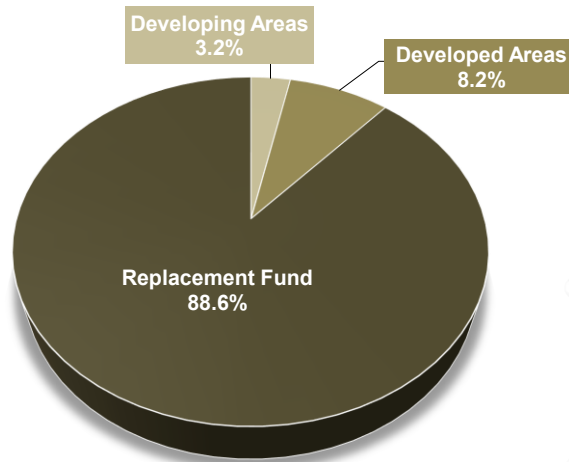


20

20

## LONG-TERM CAPITAL PROGRAM FUNDING SOURCES

Long Term Capital Program = \$5,317 Million



## RECOMMENDATION

That the Board adopt a Resolution approving the District's Capital Budget for Fiscal Year 2023-24 and 2024-25.

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| System           | Project Number | Project Title   | Start    | End        | FY 2023-24 w/ G&A | FY 2024-25 w/ G&A | Total w/ G&A  | Improvement Districts |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |      |      |      |     |     |     |
|------------------|----------------|---|----------|------------|-------------------|-------------------|---------------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|------|------|------|-----|-----|-----|
|                  |                |   |          |            |                   |                   |               | 1100                  | 1110 | 1120 | 1130 | 1250 | 1530 | 1540 | 1850 | 1880 | 2100 | 2120 | 2130 | 2220  | 2250 | 2400 | 2530 | 2560 | 2850 | 2880 |     |     |     |
| Sewer Capital    | 11832          | MWRP TRIBUTARY GRAVITY DIVERSION TO LAWRP                   | 6/1/2025 | 12/31/2027 | \$0               | \$2,632           | \$2,942,000   |                       |      |      |      |      |      |      |      |      |      |      |      | 5.4   | 3.7  | 35.4 | 45.0 |      | 7.9  | 0.4  | 1.8 | 0.4 |     |
| Recycled Capital | 11792          | NON-POTABLE WATER STUDIES 23/24-24/25                       | 7/1/2023 | 6/30/2025  | \$37,500          | \$37,500          | \$75,000      |                       |      |      |      |      |      |      |      |      |      |      |      | 8.8   | 4.2  | 15.3 | 49.2 | 7.9  | 13.1 |      | 1.5 |     |     |
| Potable Capital  | 05406          | NTS-EL MODENA NTS MODIFICATIONS                             | 6/1/2025 | 7/31/2027  | \$0               | \$6,066           | \$347,000     | 100.0                 |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |      |      |      |     |     |     |
| Sewer Capital    | 10502          | OCSD CORF LONG TERM CAPITAL PROGRAM 2018 TO 2050            | 7/1/2017 | 6/30/2050  | \$7,817,000       | \$6,998,000       | \$210,379,000 |                       |      |      |      |      |      |      |      |      |      |      |      | 72.7  | 0.9  | 0.9  | 9.0  | 13.3 |      | 2.6  | 0.1 | 0.4 | 0.1 |
| Sewer Capital    | 10500          | OCSD EQUITY LONG TERM CAPITAL PROGRAM 2018 TO 2050          | 7/1/2017 | 6/30/2050  | \$4,075,000       | \$5,177,000       | \$16,742,000  |                       |      |      |      |      |      |      |      |      |      |      |      | 5.4   | 3.7  | 35.4 | 45.0 |      | 7.9  | 0.4  | 1.8 | 0.4 |     |
| Potable Capital  | 10503          | OCWD ANNEXATION LONG TERM CAPITAL PROGRAM 2018 TO 2050      | 7/1/2017 | 1/30/2050  | \$644,300         | \$654,000         | \$22,861,400  | 35.1                  | 4.8  | 3.4  | 46.4 | 7.8  | 0.4  | 1.6  | 0.5  |      |      |      |      |       |      |      |      |      |      |      |     |     |     |
| Potable Capital  | 07881          | OPERATIONS CENTER CNG, DIESEL, GASOLINE FUELING FACILITY-DW | 7/1/2017 | 7/31/2025  | \$2,065,502       | \$556,918         | \$4,176,000   | 33.3                  | 23.4 | 3.2  | 2.3  | 30.9 | 5.2  | 0.3  | 1.1  | 0.3  |      |      |      |       |      |      |      |      |      |      |     |     |     |
| Sewer Capital    | 07882          | OPERATIONS CENTER CNG, DIESEL, GASOLINE FUELING FACILITY-SS | 7/1/2017 | 7/31/2025  | \$4,131,003       | \$1,113,835       | \$7,974,000   |                       |      |      |      |      |      |      |      |      |      |      |      | 33.3  | 4.8  | 2.6  | 16.9 | 31.4 | 2.7  | 7.0  | 0.1 | 1.1 | 0.1 |
| Potable Capital  | 06160          | OPERATIONS CENTER FACILITY REFRESH-DW                       | 6/1/2025 | 6/30/2028  | \$0               | \$4,281           | \$370,000     | 100.0                 |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |      |      |      |     |     |     |
| Sewer Capital    | 06161          | OPERATIONS CENTER FACILITY REFRESH-SS                       | 6/1/2025 | 6/30/2028  | \$0               | \$8,562           | \$740,000     |                       |      |      |      |      |      |      |      |      |      |      |      | 100.0 |      |      |      |      |      |      |     |     |     |
| Potable Capital  | 11854          | OPERATIONS CENTER PURCHASING WAREHOUSE-DW                   | 7/1/2021 | 12/31/2024 | \$513,111         | \$89,889          | \$797,000     | 35.1                  | 4.8  | 3.4  | 46.4 | 7.8  | 0.4  | 1.6  | 0.5  |      |      |      |      |       |      |      |      |      |      |      |     |     |     |
| Sewer Capital    | 11855          | OPERATIONS CENTER PURCHASING WAREHOUSE-SS                   | 7/1/2021 | 12/31/2025 | \$163,030         | \$389,680         | \$797,000     |                       |      |      |      |      |      |      |      |      |      |      |      | 5.4   | 3.7  | 35.4 | 45.0 |      | 7.9  | 0.4  | 1.8 | 0.4 |     |
| Potable Capital  | 12557          | OPERATIONS CENTER ROOF REPLACEMENT-DW, BUILDINGS 50, 60     | 6/1/2025 | 6/30/2027  | \$0               | \$4,397           | \$313,000     | 100.0                 |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |      |      |      |     |     |     |
| Sewer Capital    | 12559          | OPERATIONS CENTER ROOF REPLACEMENT-SS, BUILDINGS 50, 60     | 6/1/2025 | 6/30/2027  | \$0               | \$4,397           | \$313,000     |                       |      |      |      |      |      |      |      |      |      |      |      | 100.0 |      |      |      |      |      |      |     |     |     |
| Potable Capital  | 07376          | ORA HTS N TRACT 17995 PH 1_12 DW                            | 6/1/2023 | 7/31/2026  | \$25,191          | \$39,037          | \$176,000     |                       |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |      |      |      |     |     |     |
| Potable Capital  | 07378          | ORA HTS N TRACT 17995 PH 2_12 DW                            | 6/1/2023 | 7/31/2026  | \$138,835         | \$228,658         | \$974,000     |                       |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |      |      |      |     |     |     |
| Sewer Capital    | 07379          | ORA HTS N TRACT 17995 PH 2_12 SS                            | 6/1/2023 | 7/31/2026  | \$29,162          | \$48,225          | \$205,000     |                       |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |      |      |      |     |     |     |
| Recycled Capital | 07377          | ORA HTS N TRACT 17995 PH1_1_6 RW                            | 6/1/2023 | 7/31/2026  | \$23,234          | \$38,305          | \$162,800     |                       |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |      |      |      |     |     |     |
| Recycled Capital | 07380          | ORA HTS N TRACT 17995PH2_6_8 RW                             | 6/1/2023 | 7/31/2026  | \$69,733          | \$114,165         | \$487,000     |                       |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |      |      |      |     |     |     |
| Sewer Capital    | 07484          | ORA HTS S TRACT 16199 15 SS                                 | 6/1/2023 | 7/31/2026  | \$91,747          | \$156,567         | \$668,000     |                       |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |      |      |      |     |     |     |











| System           | Project Number | Project Title                                 | Start     | End        | FY 2023-24<br>w/ G&A | FY 2024-25<br>w/ G&A | Total<br>w/ G&A        | Improvement Districts |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|------------------|----------------|---|-----------|------------|----------------------|----------------------|------------------------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
|                  |                |   |           |            |                      |                      |                        | 1100                  | 1110 | 1120 | 1130 | 1250 | 1530 | 1540 | 1850 | 1880 | 2100 | 2120 | 2130 | 2220 | 2250 | 2400 | 2530 | 2560 | 2850 | 2880 |       |
| Potable Capital  | 12263          | WELL REHAB-TUSTIN DESALTER 22                 | 6/1/2025  | 11/30/2026 | \$0                  | \$25,361             | \$1,006,500            | 100.0                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
| Recycled Capital | 12264          | WELL REHAB-WELL 106                           | 7/1/2023  | 8/31/2026  | \$117,308            | \$272,106            | \$1,041,500            |                       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 100.0 |
| Potable Capital  | 11846          | WELL REHAB-WELL 115R                          | 7/1/2023  | 5/31/2026  | \$157,609            | \$368,391            | \$902,000              | 100.0                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
| Recycled Capital | 12262          | WELL REHAB-WELL ET1                           | 12/1/2022 | 7/31/2023  | \$35,125             | \$0                  | \$748,000              |                       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 100.0 |
| Recycled Capital | 11858          | WELL REHAB-WELL ET2                           | 7/1/2023  | 12/31/2025 | \$82,000             | \$26,000             | \$1,076,300            |                       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 100.0 |
| Potable Capital  | 11828          | WELLS 51/52 EQUIPPING                         | 6/1/2023  | 6/30/2026  | \$322,686            | \$410,499            | \$4,437,000            |                       | 35.1 | 4.8  | 3.4  | 46.4 | 7.8  | 0.4  | 1.6  | 0.5  |      |      |      |      |      |      |      |      |      |      |       |
| Potable Capital  | 11829          | WELLS 51/52 PIPELINES TO DRWF                 | 6/1/2023  | 6/30/2026  | \$568,526            | \$690,802            | \$10,874,000           |                       | 35.1 | 4.8  | 3.4  | 46.4 | 7.8  | 0.4  | 1.6  | 0.5  |      |      |      |      |      |      |      |      |      |      |       |
| Potable Capital  | 12289          | WIFI NETWORK UPGRADES - DW                    | 1/1/2023  | 12/31/2023 | \$111,000            | \$0                  | \$190,000              | 100.0                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
| Sewer Capital    | 12290          | WIFI NETWORK UPGRADES - SS                    | 1/1/2023  | 12/31/2023 | \$111,000            | \$0                  | \$190,000              |                       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 100.0 |
| Recycled Capital | 11571          | WOODBIDGE RECYCLED WATER PIPELINE REPLACEMENT | 2/1/2021  | 9/29/2023  | \$322,121            | \$0                  | \$15,218,000           |                       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 100.0 |
| Recycled Capital | 05476          | ZONE A TO RATTLESNAKE RESERVOIR PUMP STATION  | 6/1/2017  | 7/31/2025  | \$1,062,666          | \$0                  | \$22,008,000           |                       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 100.0 |
|                  |                |   |           |            | <b>\$105,060,827</b> | <b>\$111,040,742</b> | <b>\$1,324,305,148</b> |                       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |

Irvine Ranch Water District  
 Capital Budget for Fiscal Year 2023-24 and Fiscal Year 2024-25  
 Section 2 - Flagged Projects

| Project Number | Project Title                             | Flagged | Status         |
|----------------|---|---------|----------------|
| 06176          | FUTURE GROUNDWATER SUPPLY                 | Yes     | Board Approved |
| 11828          | WELLS 51/52 EQUIPPING                     | Yes     | Board Approved |
| 11829          | WELLS 51/52 PIPELINES TO DRWF             | Yes     | Board Approved |
| 01659          | MWRP EXPANSION PHASE 3 (MBR)-RW           | Yes     | Board Approved |
| 01477          | LAWRP TREATMENT PROCESS MODERNIZATION     | Yes     | Active         |
| 01797          | MWRP EXPANSION PHASE 3 (MBR)-SS           | Yes     | Board Approved |
| 11832          | MWRP TRIBUTARY GRAVITY DIVERSION TO LAWRP | Yes     | Board Approved |



Irvine Ranch Water District  
 Capital Budget for Fiscal Year 2023-24 and 2024-25  
 Section 3 - Summary of Projected Expenditures by Category

| Expenditure Category          | FY 2023-24 Direct    | FY 2024-25 Direct    | Total Direct           |
|-------------------------------|----------------------|----------------------|------------------------|
| Development - Lake Forest     | \$585,631            | \$288,102            | \$2,179,000            |
| Development - Orange Heights  | \$1,682,120          | \$2,562,353          | \$24,201,600           |
| Development - Other           | \$73,300             | \$115,919            | \$1,191,000            |
| Development - PA1             | \$157,186            | \$404,477            | \$1,443,000            |
| Development - PA40            | \$79,898             | \$180,416            | \$507,000              |
| Development - PA51            | \$4,248,463          | \$8,805,347          | \$36,294,300           |
| Development - Tustin Legacy   | \$3,494              | \$0                  | \$270,000              |
| General Plant                 | \$3,072,100          | \$2,406,998          | \$5,479,098            |
| Nonpotable Storage            | \$4,290,833          | \$7,247,729          | \$146,000,000          |
| OC San - CORF                 | \$11,892,000         | \$12,175,000         | \$227,121,000          |
| OCWD Annexation               | \$644,300            | \$654,000            | \$22,861,400           |
| Operational Improvements      | \$34,740,415         | \$13,817,936         | \$88,906,400           |
| Planning                      | \$1,883,900          | \$2,233,900          | \$4,475,000            |
| Replacement - Facilities      | \$21,531,460         | \$38,724,079         | \$264,923,800          |
| Replacement - FY System       | \$10,301,000         | \$10,301,000         | \$20,602,000           |
| Replacement-Business Software | \$49,791             | \$0                  | \$225,000              |
| Sewage Treatment              | \$2,714,720          | \$2,816,829          | \$291,443,250          |
| Solids Handling               | \$73,912             | \$0                  | \$1,520,000            |
| Water Banking                 | \$4,982,191          | \$5,882,373          | \$116,735,000          |
| Water Resources               | \$1,079,375          | \$1,097,992          | \$57,950,500           |
| Well Rehabilitation           | \$974,739            | \$1,326,292          | \$9,976,800            |
|                               | <b>\$105,060,827</b> | <b>\$111,040,742</b> | <b>\$1,324,305,148</b> |

Irvine Ranch Water District  
 Capital Budget for Fiscal Year 2023-24 and Fiscal Year 2023-24  
 Section 4 - FY 2023-24 Details of Projected Expenditures by Category

| FY Exp Category                                  | FY 23-24<br>w/ G&A | Total<br>w/ G&A     | FY Replacement | FY Developed     | FY Developing      |
|--|--------------------|---------------------|----------------|------------------|--------------------|
| <b>Development - Lake Forest</b>                 |                    |                     |                |                  |                    |
| 10096 LAKE FOREST NAKASE DW IMPROVEMENTS         | \$94,260           | \$437,000           | \$0            | \$94,260         | \$0                |
| 11582 LAKE FOREST NAKASE 24 ZB RW                | \$384,992          | \$1,365,000         | \$0            | \$278,734        | \$106,258          |
| 11749 LF NAKASE 12 INCH SANITARY SEWER           | \$106,380          | \$377,000           | \$0            | \$106,380        | \$0                |
|  | <b>\$585,631</b>   | <b>\$2,179,000</b>  | <b>\$0</b>     | <b>\$479,374</b> | <b>\$106,258</b>   |
| <b>Development - Orange Heights</b>              |                    |                     |                |                  |                    |
| 07136 ORANGE HEIGHTS DOMESTIC WATER BPS          | \$139,261          | \$3,165,900         | \$0            | \$0              | \$139,261          |
| 07138 ORANGE HEIGHTS DOMESTIC WATER RESERVOIR    | \$392,159          | \$10,263,800        | \$0            | \$0              | \$392,159          |
| 07139 ORANGE HEIGHTS RECYCLED WATER BPS          | \$139,261          | \$3,165,900         | \$0            | \$0              | \$139,261          |
| 07376 ORA HTS N TRACT 17995 PH 1_12 DW           | \$25,191           | \$176,000           | \$0            | \$0              | \$25,191           |
| 07377 ORA HTS N TRACT 17995 PH1_1_6 RW           | \$23,234           | \$162,800           | \$0            | \$0              | \$23,234           |
| 07378 ORA HTS N TRACT 17995 PH 2_12 DW           | \$138,835          | \$974,000           | \$0            | \$0              | \$138,835          |
| 07379 ORA HTS N TRACT 17995 PH 2_12 SS           | \$29,162           | \$205,000           | \$0            | \$0              | \$29,162           |
| 07380 ORA HTS N TRACT 17995PH2_6_8 RW            | \$69,733           | \$487,000           | \$0            | \$0              | \$69,733           |
| 07451 ORA HTS SANTIAGO CYN RD AND JAMBOREE 12 DW | \$162,866          | \$1,396,900         | \$0            | \$0              | \$162,866          |
| 07452 ORA HTS SANTIAGO CYN RD AND JAMBOREE 15 SS | \$36,973           | \$500,000           | \$0            | \$0              | \$36,973           |
| 07453 ORA HTS SANTIAGO CYN RD AND JAMBOREE RW    | \$319,422          | \$2,228,300         | \$0            | \$0              | \$319,422          |
| 07484 ORA HTS S TRACT 16199 15 SS                | \$91,747           | \$668,000           | \$0            | \$0              | \$91,747           |
| 07486 ORA HTS S TRACT 16199 RW                   | \$114,275          | \$808,000           | \$0            | \$0              | \$114,275          |
|  | <b>\$1,682,120</b> | <b>\$24,201,600</b> | <b>\$0</b>     | <b>\$0</b>       | <b>\$1,682,120</b> |
| <b>Development - Other</b>                       |                    |                     |                |                  |                    |
| 11815 SR 55 WIDENING DW RELOCATION               | \$37,390           | \$132,000           | \$37,390       | \$0              | \$0                |
| 12511 PA12 INNOVATION PARK 12_DW (CODE 7963)     | \$35,909           | \$245,000           | \$0            | \$0              | \$35,909           |

| FY Exp Category  | FY 23-24<br>w/ G&A | Total<br>w/ G&A    | FY Replacement  | FY Developed | FY Developing    |
|--|--------------------|--------------------|-----------------|--------------|------------------|
|  | <b>\$73,300</b>    | <b>\$377,000</b>   | <b>\$37,390</b> | <b>\$0</b>   | <b>\$35,909</b>  |
| <b>Development - PA1</b>                                 |                    |                    |                 |              |                  |
| 01722 PA1 NHB4 ORCHARD HILLS RW                          | \$128,281          | \$1,280,000        | \$0             | \$0          | \$128,281        |
| 11500 PA1 JEFFREY RD EXT 6RW & 12RW                      | \$28,905           | \$163,000          | \$0             | \$0          | \$28,905         |
|  | <b>\$157,186</b>   | <b>\$1,443,000</b> | <b>\$0</b>      | <b>\$0</b>   | <b>\$157,186</b> |
| <b>Development - PA40</b>                                |                    |                    |                 |              |                  |
| 12510 PA40 MARINE WAY INTERIM 12DW (CODE 7957)           | \$79,898           | \$507,000          | \$0             | \$0          | \$79,898         |
|  | <b>\$79,898</b>    | <b>\$507,000</b>   | <b>\$0</b>      | <b>\$0</b>   | <b>\$79,898</b>  |
| <b>Development - PA51</b>                                |                    |                    |                 |              |                  |
| 04153 PA51 MARINE WAY ZN3 DW                             | \$5,179            | \$420,200          | \$0             | \$0          | \$5,179          |
| 05536 PA51 LQ ST FROM BOSQUE TO Z ST 12 RW               | \$4,841            | \$416,900          | \$0             | \$0          | \$4,841          |
| 05756 PA51 B ST FROM SOCIABLE TO IRVINE BLV 12 ZN 4      | \$3,026            | \$243,100          | \$0             | \$0          | \$3,026          |
| 05757 PA51 B ST FROM SOCIABLE TO IRVINE BLV 16 ZN C      | \$3,005            | \$240,900          | \$0             | \$0          | \$3,005          |
| 05758 PA51 CADENCE-PUSAN TO CHINON 12_16RW               | \$3,126            | \$271,700          | \$0             | \$0          | \$3,126          |
| 05788 PA51 ALTON PKWY SS RELOCATION 12 AND 18            | \$15,632           | \$1,232,300        | \$0             | \$0          | \$15,632         |
| 05816 PA51 ALTON-TECHNOLOGY TO MUIRLANDS 12 DW           | \$2,219            | \$177,100          | \$0             | \$0          | \$2,219          |
| 05817 PA51 ALTON-TECHNOLOGY TO MUIRLANDS SS RELOCATION   | \$21,064           | \$1,326,300        | \$0             | \$0          | \$21,064         |
| 06048 PA51 MARINE WAY-ALTON TO BARRANCA 18 SS            | \$10,654           | \$874,500          | \$0             | \$0          | \$10,654         |
| 06086 PA51 MARINE WAY FROM ALTON TO BARRANCA 12 DW ZN 3  | \$6,656            | \$438,700          | \$0             | \$0          | \$6,656          |
| 06087 PA51 MARINE WAY-ALTON TO BARRANCA 16 RW ZN B       | \$7,160            | \$481,600          | \$0             | \$0          | \$7,160          |
| 06476 PA51 MARINE WAY. RIDGE VALLEY TO 3000 FT EAST      | \$5,590            | \$426,800          | \$0             | \$0          | \$5,590          |
| 06595 PA51 GP TERRAPIN (TRABUCO TO CADENCE) 6 RW ZB      | \$2,365            | \$180,400          | \$0             | \$0          | \$2,365          |
| 06732 PA51 GP MAGNET (FROM RIDGE V. TO BOSQUE) 6 RW ZB   | \$2,795            | \$206,800          | \$0             | \$0          | \$2,795          |
| 10022 PA51 D5 CHINON FROM SOUTH CADENCE TO CADENCE, 12 D | \$9,960            | \$392,000          | \$0             | \$0          | \$9,960          |
| 10023 PA51 D5 CHINON FROM SOUTH CADENCE TO CADENCE 12 SS | \$12,451           | \$502,000          | \$0             | \$0          | \$12,451         |
| 10024 PA51 D5 CHINON 16 RW, 12 RW and 10 RW ZONE C       | \$11,028           | \$457,000          | \$0             | \$0          | \$11,028         |

| FY Exp Category   | FY 23-24<br>w/ G&A | Total<br>w/ G&A | FY Replacement | FY Developed | FY Developing |
|---|--------------------|-----------------|----------------|--------------|---------------|
| 10117 PA51 D5 CADENCE S FROM O TO CHINON 12SS             | \$10,264           | \$487,000       | \$0            | \$0          | \$10,264      |
| 10254 PA51 D5 CADENCE S 12DW                              | \$2,367            | \$138,000       | \$0            | \$0          | \$2,367       |
| 10255 PA51 D5 CADENCE S 10RW                              | \$2,406            | \$138,000       | \$0            | \$0          | \$2,406       |
| 10343 PA51 D5 A ST 12 DW                                  | \$22,452           | \$989,000       | \$0            | \$0          | \$22,452      |
| 10344 PA51 D5 A ST 12_10 RW                               | \$38,616           | \$1,059,000     | \$0            | \$0          | \$38,616      |
| 10574 PA51 MARINE WAY AT OCTA 18 SS                       | \$33,952           | \$970,000       | \$0            | \$0          | \$33,952      |
| 10576 PA51 REACH B EAST 18 SS                             | \$77,351           | \$2,580,000     | \$0            | \$0          | \$77,351      |
| 10734 PA51 MARINE WY (BARRANCA TO OCTA) 16 RW             | \$15,925           | \$512,000       | \$0            | \$0          | \$15,925      |
| 10796 PA51 D5 "P" ST & CHINON 12DW                        | \$26,252           | \$147,000       | \$0            | \$0          | \$26,252      |
| 10804 PA51 P ST & CADENCE 12_10RW                         | \$13,650           | \$497,000       | \$0            | \$0          | \$13,650      |
| 10860 PA51 D5 MERIT 12_DW                                 | \$1,820            | \$72,000        | \$0            | \$0          | \$1,820       |
| 10861 PA51 D5 MERIT 12_10_RW                              | \$46,431           | \$312,000       | \$0            | \$0          | \$46,431      |
| 10862 PA51 D5 BB ST 12 RW                                 | \$46,431           | \$297,000       | \$0            | \$0          | \$46,431      |
| 10863 PA51 D5 ASTOR 12DW                                  | \$3,640            | \$147,000       | \$0            | \$0          | \$3,640       |
| 10864 PA51 D5 ASTOR 10RW                                  | \$54,169           | \$342,000       | \$0            | \$0          | \$54,169      |
| 10865 PA51 D5 E ST 12RW                                   | \$25,795           | \$181,000       | \$0            | \$0          | \$25,795      |
| 10868 PA51 D6 P ST 18SS                                   | \$14,560           | \$542,000       | \$0            | \$0          | \$14,560      |
| 10875 PA51 D5 F ST N ST 12DW                              | \$4,095            | \$157,000       | \$0            | \$0          | \$4,095       |
| 10878 PA51 D5 F ST N ST 12_10RW                           | \$46,431           | \$317,000       | \$0            | \$0          | \$46,431      |
| 11176 PA51 D6 MARINE AND ALTON 12DW                       | \$160,523          | \$688,000       | \$0            | \$0          | \$160,523     |
| 11177 PA51 D6 MARINE AND ALTON 16RW                       | \$261,714          | \$963,000       | \$0            | \$0          | \$261,714     |
| 11939 PA51 MARINE AND BAKE 12DW                           | \$218,205          | \$663,000       | \$0            | \$0          | \$218,205     |
| 12143 PA51 GP5 12DW CODE 7740                             | \$91,935           | \$468,000       | \$0            | \$0          | \$91,935      |
| 12145 PA51 GP5 8RW CODE 7740                              | \$76,613           | \$372,000       | \$0            | \$0          | \$76,613      |
| 12146 PA51 MARINE AND ALTON CREEK 24SS CODE 7806          | \$919,355          | \$3,435,000     | \$0            | \$739,161    | \$180,194     |
| 12228 PA51 D5 HARRIER FROM CHINON TO LYNX 12DW CODE 7808  | \$211,585          | \$763,000       | \$0            | \$0          | \$211,585     |
| 12229 PA51 D5 D6 HARRIER FROM CHINON TO LYNX 12_15SS IRWD | \$156,306          | \$563,000       | \$0            | \$0          | \$156,306     |

| FY Exp Category  | FY 23-24<br>w/ G&A | Total<br>w/ G&A      | FY Replacement     | FY Developed       | FY Developing      |
|--|--------------------|----------------------|--------------------|--------------------|--------------------|
| 12230 PA51 D5 D6 HARRIER FROM CHINON TO LYNX 10RW IRWD CO  | \$112,082          | \$403,000            | \$0                | \$0                | \$112,082          |
| 12231 PA51 D5 D6 CHINON FROM HARRIER TO TREBLE 12DW IRWD   | \$65,371           | \$234,000            | \$0                | \$0                | \$65,371           |
| 12232 PA51 D5 D6 CHINON FROM HARRIER TO TREBLE 10RW IRWD C | \$101,579          | \$365,000            | \$0                | \$0                | \$101,579          |
| 12371 PA51 D5D6 MRWY EO SKYHWK 12_DW CODE 7902             | \$267,556          | \$1,135,000          | \$0                | \$0                | \$267,556          |
| 12386 PA51 D5D6 MRWY EO SKYHWK 18_SS (CODE 7902)           | \$196,451          | \$989,000            | \$0                | \$0                | \$196,451          |
| 12387 PA51 D5D6 MRWY EO SKYHWK 16_RW (CODE 7902)           | \$312,781          | \$1,695,000          | \$0                | \$0                | \$312,781          |
| 12404 PA51 D6 TRBLE_MRWY TO GP5 12_DW (CODE 7909)          | \$97,404           | \$567,000            | \$0                | \$0                | \$97,404           |
| 12405 PA51 D6 TRBLE_MRWY TO GP5 18_SS (CODE 7909)          | \$226,534          | \$1,296,000          | \$0                | \$0                | \$226,534          |
| 12406 PA51 D6 TRBLE_MRWY TO GP5 8_RW (CODE 7909)           | \$87,291           | \$478,000            | \$0                | \$0                | \$87,291           |
| 12432 PA51 D6 LYNX NO MRWY 12_DW CODE 7931                 | \$35,909           | \$245,000            | \$0                | \$0                | \$35,909           |
| 12433 PA51 D6 LYNX NO MRWY 15_SS CODE 7931                 | \$35,909           | \$245,000            | \$0                | \$0                | \$35,909           |
|  | <b>\$4,248,463</b> | <b>\$33,739,300</b>  | <b>\$0</b>         | <b>\$739,161</b>   | <b>\$3,509,301</b> |
| <b>Development - Tustin Legacy</b>                         |                    |                      |                    |                    |                    |
| 07535 TUSTIN LEGACY FLIGHT DR 6 RW                         | \$3,494            | \$270,000            | \$0                | \$0                | \$3,494            |
|  | <b>\$3,494</b>     | <b>\$270,000</b>     | <b>\$0</b>         | <b>\$0</b>         | <b>\$3,494</b>     |
| <b>General Plant</b>                                       |                    |                      |                    |                    |                    |
| 12586 GP_Dept 130_FY 23_24                                 | \$50,000           | \$50,000             | \$45,500           | \$3,500            | \$1,000            |
| 12587 GP_Dept 250_FY 23_24                                 | \$719,100          | \$719,100            | \$654,381          | \$50,337           | \$14,382           |
| 12588 GP_Dept 600_FY 23_24                                 | \$180,000          | \$180,000            | \$163,800          | \$12,600           | \$3,600            |
| 12589 GP_Dept 870_FY 23_24                                 | \$2,093,000        | \$2,093,000          | \$1,904,630        | \$146,510          | \$41,860           |
| 12606 GP_Dept 425_FY 23_24                                 | \$30,000           | \$30,000             | \$27,300           | \$2,100            | \$600              |
|  | <b>\$3,072,100</b> | <b>\$3,072,100</b>   | <b>\$2,795,611</b> | <b>\$215,047</b>   | <b>\$61,442</b>    |
| <b>Nonpotable Storage</b>                                  |                    |                      |                    |                    |                    |
| 03808 SYPHON RESERVOIR IMPROVEMENTS                        | \$4,290,833        | \$146,000,000        | \$0                | \$3,106,563        | \$1,184,270        |
|  | <b>\$4,290,833</b> | <b>\$146,000,000</b> | <b>\$0</b>         | <b>\$3,106,563</b> | <b>\$1,184,270</b> |
| <b>OC San - CORF</b>                                       |                    |                      |                    |                    |                    |

| FY Exp Category                 |   | FY 23-24<br>w/ G&A  | Total<br>w/ G&A      | FY Replacement     | FY Developed       | FY Developing      |
|---------------------------------|---|---------------------|----------------------|--------------------|--------------------|--------------------|
| 10500                           | OCSD EQUITY LONG TERM CAPITAL PROGRAM 2018 TO 2050      | \$4,075,000         | \$16,742,000         | \$0                | \$3,276,300        | \$798,700          |
| 10502                           | OCSD CORF LONG TERM CAPITAL PROGRAM 2018 TO 2050        | \$7,817,000         | \$210,379,000        | \$5,682,959        | \$1,743,191        | \$390,850          |
|                                 |   | <b>\$11,892,000</b> | <b>\$227,121,000</b> | <b>\$5,682,959</b> | <b>\$5,019,491</b> | <b>\$1,189,550</b> |
| <b>OCWD Annexation</b>          |   |                     |                      |                    |                    |                    |
| 10503                           | OCWD ANNEXATION LONG TERM CAPITAL PROGRAM 2018 TO       | \$644,300           | \$22,861,400         | \$0                | \$525,105          | \$119,196          |
|                                 |   | <b>\$644,300</b>    | <b>\$22,861,400</b>  | <b>\$0</b>         | <b>\$525,105</b>   | <b>\$119,196</b>   |
| <b>Operational Improvements</b> |   |                     |                      |                    |                    |                    |
| 07881                           | OPERATIONS CENTER CNG, DIESEL, GASOLINE FUELING FACILIT | \$2,065,502         | \$4,176,000          | \$687,812          | \$1,121,567        | \$256,122          |
| 07882                           | OPERATIONS CENTER CNG, DIESEL, GASOLINE FUELING FACILIT | \$4,131,003         | \$7,974,000          | \$1,375,624        | \$2,106,812        | \$648,568          |
| 10101                           | FLEMING DW RESERVOIR AND PUMP STATION IMPROVEMENT       | \$4,163,680         | \$16,740,000         | \$437,186          | \$3,726,493        | \$0                |
| 10379                           | SAN JOAQUIN RESERVOIR FILTRATION FACILITY               | \$14,188,817        | \$23,455,000         | \$0                | \$10,272,704       | \$3,916,114        |
| 11154                           | RADIO TOWER IMPROVEMENTS-DW                             | \$151,775           | \$231,000            | \$0                | \$123,697          | \$28,078           |
| 11156                           | RADIO TOWER IMPROVEMENTS-SS                             | \$155,525           | \$236,000            | \$0                | \$125,042          | \$30,483           |
| 11157                           | RADIO TOWER IMPROVEMENTS-RW                             | \$155,525           | \$236,000            | \$0                | \$112,600          | \$42,925           |
| 11171                           | WELL ET-1 PFAS TREATMENT                                | \$2,270,877         | \$5,167,450          | \$0                | \$1,644,115        | \$626,762          |
| 11586                           | AUTOMATION CYBERSECURITY                                | \$396,083           | \$1,350,000          | \$0                | \$322,808          | \$73,275           |
| 11720                           | WELL OPA 1 PFAS TREATMENT                               | \$9,036             | \$363,000            | \$0                | \$7,364            | \$1,672            |
| 11828                           | WELLS 51/52 EQUIPPING                                   | \$322,686           | \$4,437,000          | \$0                | \$262,989          | \$59,697           |
| 11829                           | WELLS 51/52 PIPELINES TO DRWF                           | \$568,526           | \$10,874,000         | \$0                | \$463,348          | \$105,177          |
| 11834                           | SGU PFAS TREATMENT                                      | \$2,386,068         | \$5,137,950          | \$0                | \$1,727,513        | \$658,555          |
| 11840                           | TURTLE ROCK ZONE 3 RESERVOIR CHLORAMINE BOOSTER STA     | \$2,248,860         | \$4,013,000          | \$0                | \$1,832,821        | \$416,039          |
| 11854                           | OPERATIONS CENTER PURCHASING WAREHOUSE-DW               | \$513,111           | \$797,000            | \$0                | \$418,186          | \$94,926           |
| 11855                           | OPERATIONS CENTER PURCHASING WAREHOUSE-SS               | \$163,030           | \$797,000            | \$0                | \$131,076          | \$31,954           |
| 12407                           | ENTERPRISE RW PIPE REPLACEMENT                          | \$484,647           | \$596,000            | \$484,647          | \$0                | \$0                |
| 12506                           | DAMS INSTRUMENTATION & DATA ACQUISITION UPGRADES        | \$265,664           | \$1,386,000          | \$0                | \$192,341          | \$73,323           |
| 12542                           | IS GENERAL UPGRADES 23/24-24/25                         | \$100,000           | \$200,000            | \$0                | \$80,800           | \$19,200           |

| FY Exp Category   | FY 23-24<br>w/ G&A  | Total<br>w/ G&A     | FY Replacement     | FY Developed        | FY Developing      |
|---|---------------------|---------------------|--------------------|---------------------|--------------------|
|   | <b>\$34,740,415</b> | <b>\$88,166,400</b> | <b>\$2,985,270</b> | <b>\$24,672,276</b> | <b>\$7,082,869</b> |
| <b>Planning</b>   |                     |                     |                    |                     |                    |
| 11782 CAPITAL PLANNING SUPPORT 23/24-24/25                  | \$1,200,000         | \$2,400,000         | \$0                | \$939,600           | \$260,400          |
| 11792 NON-POTABLE WATER STUDIES 23/24-24/25                 | \$37,500            | \$75,000            | \$0                | \$27,150            | \$10,350           |
| 12534 CIP AM LINEAR PRIORITIZATION                          | \$500,000           | \$500,000           | \$0                | \$391,500           | \$108,500          |
| 12580 LEAD AND COPPER RULE REVISION COMPLIANCE              | \$146,400           | \$500,000           | \$0                | \$119,316           | \$27,084           |
|   | <b>\$1,883,900</b>  | <b>\$3,475,000</b>  | <b>\$0</b>         | <b>\$1,477,566</b>  | <b>\$406,334</b>   |
| <b>Replacement - Facilities</b>                             |                     |                     |                    |                     |                    |
| 01398 SANTIAGO CANYON AREA PUMP STATION IMPROVEMENTS        | \$2,401,721         | \$10,185,300        | \$0                | \$2,401,721         | \$0                |
| 01813 SANTIAGO DAM OUTLET AND SPILLWAY                      | \$1,996,896         | \$139,307,000       | \$1,893,058        | \$81,873            | \$21,966           |
| 03750 SOCWA ETM PROTECTION-TRAIL BRIDGE CROSSING (PC 21)    | \$37,059            | \$1,215,000         | \$37,059           | \$0                 | \$0                |
| 05476 ZONE A TO RATTLESNAKE RESERVOIR PUMP STATION          | \$1,062,666         | \$22,008,000        | \$1,062,666        | \$0                 | \$0                |
| 07892 MWRP TERTIARY FILTER REHABILITATION                   | \$1,768,264         | \$9,875,600         | \$1,768,264        | \$0                 | \$0                |
| 10580 RW PIPELINE REPLACEMENT-SILKWOOD, WILLOWLEAF          | \$1,720             | \$423,000           | \$1,720            | \$0                 | \$0                |
| 11123 LAKE FOREST WOODS SEWER IMPROVEMENTS                  | \$985,780           | \$5,313,000         | \$985,780          | \$0                 | \$0                |
| 11189 SOCWA ETM AVAC VALVE REPLACEMENT REACHES D AND E (P   | \$11,111            | \$500,000           | \$11,111           | \$0                 | \$0                |
| 11536 EMERGENCY GENERATOR FUEL STORAGE - DW                 | \$1,420,917         | \$2,567,800         | \$1,136,733        | \$231,609           | \$52,574           |
| 11537 EMERGENCY GENERATOR FUEL STORAGE - SS                 | \$1,105,433         | \$1,995,800         | \$994,889          | \$88,435            | \$22,109           |
| 11568 COASTAL ZONE B AND COASTAL ZONE D PUMP STATIONS ELEC  | \$28,676            | \$1,737,000         | \$28,676           | \$0                 | \$0                |
| 11570 DRWF WELLSITE REHAB GROUP 1                           | \$945,892           | \$4,000,000         | \$945,892          | \$0                 | \$0                |
| 11571 WOODBRIDGE RECYCLED WATER PIPELINE REPLACEMENT        | \$322,121           | \$15,218,000        | \$322,121          | \$0                 | \$0                |
| 11587 BRIDGE 175 AT SILVERADO CANYON RD, LADD CANYON DW I   | \$443,835           | \$674,900           | \$443,835          | \$0                 | \$0                |
| 11588 BRIDGE 174 AT SILVERADO CANYON ROAD, COMMUNITY CEN    | \$352,849           | \$504,900           | \$352,849          | \$0                 | \$0                |
| 11589 BRIDGE 177 AT SILVERADO CANYON RD READ RESERVOIR DW I | \$154,965           | \$564,900           | \$154,965          | \$0                 | \$0                |
| 11593 BRIDGE 172 AT MODJESKA CANYON RD/MARKUSON RD DW I     | \$15,923            | \$564,900           | \$15,923           | \$0                 | \$0                |
| 11841 SEWER SIPHON REHABILITATION PHASE 2                   | \$705,466           | \$9,725,000         | \$705,466          | \$0                 | \$0                |

| FY Exp Category |   | FY 23-24<br>w/ G&A  | Total<br>w/ G&A      | FY Replacement      | FY Developed       | FY Developing    |
|-----------------|---|---------------------|----------------------|---------------------|--------------------|------------------|
| 11912           | COASTAL ZONE 2 AND COASTAL ZONE 4 PUMP STATIONS REH | \$539,332           | \$1,392,000          | \$539,332           | \$0                | \$0              |
| 12101           | RATTLESNAKE DAM REHABILITATION                      | \$1,601,655         | \$3,213,000          | \$1,601,655         | \$0                | \$0              |
| 12125           | 36 INCH SS RELOCATION AT SR133/SD CREEK             | \$730,450           | \$1,223,000          | \$730,450           | \$0                | \$0              |
| 12215           | RIPARIAN VIEW PAVEMENT REHABILITATION               | \$11,000            | \$735,000            | \$11,000            | \$0                | \$0              |
| 12289           | WIFI NETWORK UPGRADES - DW                          | \$111,000           | \$190,000            | \$111,000           | \$0                | \$0              |
| 12290           | WIFI NETWORK UPGRADES - SS                          | \$111,000           | \$190,000            | \$111,000           | \$0                | \$0              |
| 12294           | EL TORO RD SMH RAISE TO GRADE                       | \$24,280            | \$280,000            | \$24,280            | \$0                | \$0              |
| 12423           | SERRANO CREEK RAW WATER PIPELINE REPLACEMENT        | \$854,027           | \$1,116,500          | \$854,027           | \$0                | \$0              |
| 12513           | HARDING CANYON DAM REHABILITATION                   | \$201,026           | \$951,500            | \$201,026           | \$0                | \$0              |
| 12520           | MWRP SOLIDS FORCE MAIN RELOCATION                   | \$417,411           | \$533,000            | \$417,411           | \$0                | \$0              |
| 12545           | MPS2 PUMP BASE REPLACEMENT FOR PUMPS 1, 2, 3        | \$133,419           | \$409,000            | \$133,419           | \$0                | \$0              |
| 12550           | HVAC SYSTEM REPLACEMENT AT SAND CANYON AND OPS DW   | \$113,529           | \$2,294,000          | \$113,529           | \$0                | \$0              |
| 12551           | HVAC SYSTEM REPLACEMENT AT SAND CANYON AND OPS SS   | \$113,529           | \$2,294,000          | \$113,529           | \$0                | \$0              |
| 12552           | MWRP DIGESTER REHABILITATION                        | \$65,000            | \$4,060,000          | \$65,000            | \$0                | \$0              |
| 12554           | MWRP BIOSOLIDS CENTRATE TANK REPAIR                 | \$81,000            | \$412,000            | \$81,000            | \$0                | \$0              |
| 12556           | MWRP BIOSOLIDS FOUL AIR SYSTEM REPAIR               | \$93,500            | \$687,000            | \$93,500            | \$0                | \$0              |
| 12565           | R&R PS EAST IRVINE ZN 3-4                           | \$950,000           | \$1,900,000          | \$950,000           | \$0                | \$0              |
| 12566           | R&R PS LAKE FOREST ZN 4-5 WEST                      | \$641,667           | \$2,200,000          | \$641,667           | \$0                | \$0              |
| 12568           | R&R TANK SHAW                                       | \$250,000           | \$500,000            | \$250,000           | \$0                | \$0              |
| 12573           | IDP PTP TREATMENT SYSTEM REPLACEMENT                | \$56,513            | \$665,000            | \$56,513            | \$0                | \$0              |
| 12575           | EDUCATIONAL DISPLAYS AND SIGNAGE                    | \$250,000           | \$500,000            | \$250,000           | \$0                | \$0              |
| 12594           | WELL REHAB - OPA1                                   | \$350,872           | \$577,500            | \$0                 | \$285,961          | \$64,911         |
| 12596           | SOCWA ALISO CREEK OCEAN OUTFALL BALLAST REPAIR      | \$12,121            | \$300,000            | \$12,121            | \$0                | \$0              |
| 12615           | MWRP SERVICE A TRANSFORMER REPLACEMENT              | \$57,833            | \$760,100            | \$57,833            | \$0                | \$0              |
|                 |   | <b>\$21,531,460</b> | <b>\$253,762,700</b> | <b>\$18,280,301</b> | <b>\$3,089,599</b> | <b>\$161,560</b> |

**Replacement - FY System**

|       |  |             |             |             |     |     |
|-------|--|-------------|-------------|-------------|-----|-----|
| 11774 | GENERAL SYSTEM REPLACEMENTS AND MODIFICATIONS DW 2 | \$6,283,000 | \$6,283,000 | \$6,283,000 | \$0 | \$0 |
|-------|--|-------------|-------------|-------------|-----|-----|



| FY Exp Category  | FY 23-24<br>w/ G&A  | Total<br>w/ G&A      | FY Replacement      | FY Developed       | FY Developing    |
|--|---------------------|----------------------|---------------------|--------------------|------------------|
| 11777 GENERAL SYSTEM REPLACEMENTS AND MODIFICATIONS RW 2   | \$2,103,000         | \$2,103,000          | \$2,103,000         | \$0                | \$0              |
| 11780 GENERAL SYSTEM REPLACEMENTS AND MODIFICATIONS SS 23  | \$1,785,000         | \$1,785,000          | \$1,785,000         | \$0                | \$0              |
| 11843 LAWRP SYSTEM REPLACEMENTS 23/24                      | \$80,000            | \$80,000             | \$80,000            | \$0                | \$0              |
| 12529 IS GENERAL REPLACEMENTS 23/24-24/25                  | \$50,000            | \$100,000            | \$50,000            | \$0                | \$0              |
|  | <b>\$10,301,000</b> | <b>\$10,351,000</b>  | <b>\$10,301,000</b> | <b>\$0</b>         | <b>\$0</b>       |
| <b>Replacement-Business Software</b>                       |                     |                      |                     |                    |                  |
| 11888 MAXIMO SCHEDULER REPLACEMENT-DW                      | \$16,597            | \$75,000             | \$16,597            | \$0                | \$0              |
| 11889 MAXIMO SCHEDULER REPLACEMENT-SS                      | \$33,194            | \$150,000            | \$33,194            | \$0                | \$0              |
|  | <b>\$49,791</b>     | <b>\$225,000</b>     | <b>\$49,791</b>     | <b>\$0</b>         | <b>\$0</b>       |
| <b>Sewage Treatment</b>                                    |                     |                      |                     |                    |                  |
| 01659 MWRP EXPANSION PHASE 3 (MBR)-RW                      | \$656,097           | \$21,258,000         | \$0                 | \$475,014          | \$181,083        |
| 01797 MWRP EXPANSION PHASE 3 (MBR)-SS                      | \$1,345,731         | \$43,680,000         | \$0                 | \$1,081,968        | \$263,763        |
| 11833 MWRP EXPANSION PHASE 3 (CAS) IMPROVEMENTS            | \$541,097           | \$17,867,000         | \$0                 | \$435,042          | \$106,055        |
| 12541 MWRP BIOSOLIDS LIFT STATION                          | \$171,795           | \$3,262,000          | \$0                 | \$138,123          | \$33,672         |
|  | <b>\$2,714,720</b>  | <b>\$86,067,000</b>  | <b>\$0</b>          | <b>\$2,130,147</b> | <b>\$584,573</b> |
| <b>Solids Handling</b>                                     |                     |                      |                     |                    |                  |
| 12138 MWRP BIOSOLIDS MISC. IMPROVEMENTS                    | \$73,912            | \$1,520,000          | \$0                 | \$59,425           | \$14,487         |
|  | <b>\$73,912</b>     | <b>\$1,520,000</b>   | <b>\$0</b>          | <b>\$59,425</b>    | <b>\$14,487</b>  |
| <b>Water Banking</b>                                       |                     |                      |                     |                    |                  |
| 10854 KERN FAN GROUNDWATER STORAGE                         | \$4,659,500         | \$115,410,500        | \$0                 | \$3,797,493        | \$862,008        |
| 11746 SITES RESERVOIR PLANNING AND ENVIRONMENTAL REVIEW    | \$269,782           | \$1,236,500          | \$0                 | \$219,872          | \$49,910         |
| 12584 PALO VERDE IRRIGATION DISTRICT PROPERTY IMPROVEMENTS | \$52,909            | \$88,000             | \$0                 | \$43,121           | \$9,788          |
|  | <b>\$4,982,191</b>  | <b>\$116,735,000</b> | <b>\$0</b>          | <b>\$4,060,486</b> | <b>\$921,705</b> |
| <b>Water Resources</b>                                     |                     |                      |                     |                    |                  |
| 11747 DELTA CONVEYANCE PROJECT PLANNING AND ENVIRONMENT    | \$57,382            | \$263,000            | \$0                 | \$46,766           | \$10,616         |
| 11797 RW CONVERSION IMPROVEMENTS FOR OFF-SITE 23/24        | \$200,000           | \$200,000            | \$200,000           | \$0                | \$0              |

| FY Exp Category                         | FY 23-24<br>w/ G&A   | Total<br>w/ G&A        | FY Replacement      | FY Developed        | FY Developing       |
|---|----------------------|------------------------|---------------------|---------------------|---------------------|
| 11800 POTABLE WATER STUDIES 23/24-24/25 | \$750,000            | \$1,500,000            | \$0                 | \$611,250           | \$138,750           |
| 12514 AMI IMPLEMENTATION - DW           | \$35,996             | \$90,000               | \$0                 | \$29,337            | \$6,659             |
| 12515 AMI IMPLEMENTATION - RW           | \$35,996             | \$90,000               | \$0                 | \$26,061            | \$9,935             |
|   | <b>\$1,079,375</b>   | <b>\$2,143,000</b>     | <b>\$200,000</b>    | <b>\$713,415</b>    | <b>\$165,960</b>    |
| <b>Well Rehabilitation</b>              |                      |                        |                     |                     |                     |
| 07087 WELL REHAB-DRWF 10                | \$66,693             | \$1,410,000            | \$66,693            | \$0                 | \$0                 |
| 11137 WELL REHAB-IDP 76                 | \$378,424            | \$409,500              | \$378,424           | \$0                 | \$0                 |
| 11845 WELL REHAB-DRWF 12                | \$46,221             | \$1,370,000            | \$46,221            | \$0                 | \$0                 |
| 11846 WELL REHAB-WELL 115R              | \$157,609            | \$902,000              | \$157,609           | \$0                 | \$0                 |
| 11847 WELL REHAB-IDP 110                | \$91,359             | \$1,006,500            | \$91,359            | \$0                 | \$0                 |
| 11858 WELL REHAB-WELL ET2               | \$82,000             | \$1,076,300            | \$82,000            | \$0                 | \$0                 |
| 12262 WELL REHAB-WELL ET1               | \$35,125             | \$748,000              | \$35,125            | \$0                 | \$0                 |
| 12264 WELL REHAB-WELL 106               | \$117,308            | \$1,041,500            | \$117,308           | \$0                 | \$0                 |
|   | <b>\$974,739</b>     | <b>\$7,963,800</b>     | <b>\$974,739</b>    | <b>\$0</b>          | <b>\$0</b>          |
|   | <b>\$105,060,827</b> | <b>\$1,032,180,300</b> | <b>\$41,307,060</b> | <b>\$46,287,655</b> | <b>\$17,466,112</b> |

Irvine Ranch Water District  
 Capital Budget for Fiscal Year 2024-25 and Fiscal Year 2024-25  
 Section 4 - FY 2024-25 Details of Projected Expenditures by Category

| FY Exp Category                                    | FY 24-25<br>w/ G&A | Total<br>w/ G&A     | FY Replacement | FY Developed     | FY Developing      |
|--|--------------------|---------------------|----------------|------------------|--------------------|
| <b>Development - Lake Forest</b>                   |                    |                     |                |                  |                    |
| 10096 LAKE FOREST NAKASE DW IMPROVEMENTS           | \$128,705          | \$437,000           | \$0            | \$128,705        | \$0                |
| 11582 LAKE FOREST NAKASE 24 ZB RW                  | \$39,579           | \$1,365,000         | \$0            | \$28,656         | \$10,924           |
| 11749 LF NAKASE 12 INCH SANITARY SEWER             | \$119,818          | \$377,000           | \$0            | \$119,818        | \$0                |
|  | <b>\$288,102</b>   | <b>\$2,179,000</b>  | <b>\$0</b>     | <b>\$277,178</b> | <b>\$10,924</b>    |
| <b>Development - Orange Heights</b>                |                    |                     |                |                  |                    |
| 07136 ORANGE HEIGHTS DOMESTIC WATER BPS            | \$167,114          | \$3,165,900         | \$0            | \$0              | \$167,114          |
| 07138 ORANGE HEIGHTS DOMESTIC WATER RESERVOIR      | \$470,591          | \$10,263,800        | \$0            | \$0              | \$470,591          |
| 07139 ORANGE HEIGHTS RECYCLED WATER BPS            | \$167,114          | \$3,165,900         | \$0            | \$0              | \$167,114          |
| 07376 ORA HTS N TRACT 17995 PH 1_12 DW             | \$39,037           | \$176,000           | \$0            | \$0              | \$39,037           |
| 07377 ORA HTS N TRACT 17995 PH1_1_6 RW             | \$38,305           | \$162,800           | \$0            | \$0              | \$38,305           |
| 07378 ORA HTS N TRACT 17995 PH 2_12 DW             | \$228,658          | \$974,000           | \$0            | \$0              | \$228,658          |
| 07379 ORA HTS N TRACT 17995 PH 2_12 SS             | \$48,225           | \$205,000           | \$0            | \$0              | \$48,225           |
| 07380 ORA HTS N TRACT 17995PH2_6_8 RW              | \$114,165          | \$487,000           | \$0            | \$0              | \$114,165          |
| 07451 ORA HTS SANTIAGO CYN RD AND JAMBOREE 12 DW   | \$317,761          | \$1,396,900         | \$0            | \$0              | \$317,761          |
| 07452 ORA HTS SANTIAGO CYN RD AND JAMBOREE 15 SS   | \$113,239          | \$500,000           | \$0            | \$0              | \$113,239          |
| 07453 ORA HTS SANTIAGO CYN RD AND JAMBOREE RW      | \$511,950          | \$2,228,300         | \$0            | \$0              | \$511,950          |
| 07484 ORA HTS S TRACT 16199 15 SS                  | \$156,567          | \$668,000           | \$0            | \$0              | \$156,567          |
| 07486 ORA HTS S TRACT 16199 RW                     | \$189,628          | \$808,000           | \$0            | \$0              | \$189,628          |
|  | <b>\$2,562,353</b> | <b>\$24,201,600</b> | <b>\$0</b>     | <b>\$0</b>       | <b>\$2,562,353</b> |
| <b>Development - Other</b>                         |                    |                     |                |                  |                    |
| 07086 CALIFORNIA AVE RW PIPELINE-ACADEMY TO THEORY | \$7,508            | \$814,000           | \$7,508        | \$0              | \$0                |
| 11815 SR 55 WIDENING DW RELOCATION                 | \$25,610           | \$132,000           | \$25,610       | \$0              | \$0                |

| FY Exp Category   | FY 24-25<br>w/ G&A | Total<br>w/ G&A    | FY Replacement  | FY Developed | FY Developing    |
|---|--------------------|--------------------|-----------------|--------------|------------------|
| 12511 PA12 INNOVATION PARK 12_DW (CODE 7963)              | \$82,802           | \$245,000          | \$0             | \$0          | \$82,802         |
|   | <b>\$115,919</b>   | <b>\$1,191,000</b> | <b>\$33,117</b> | <b>\$0</b>   | <b>\$82,802</b>  |
| <b>Development - PA1</b>                                  |                    |                    |                 |              |                  |
| 01722 PA1 NHB4 ORCHARD HILLS RW                           | \$364,944          | \$1,280,000        | \$0             | \$0          | \$364,944        |
| 11500 PA1 JEFFREY RD EXT 6RW & 12RW                       | \$39,533           | \$163,000          | \$0             | \$0          | \$39,533         |
|   | <b>\$404,477</b>   | <b>\$1,443,000</b> | <b>\$0</b>      | <b>\$0</b>   | <b>\$404,477</b> |
| <b>Development - PA40</b>                                 |                    |                    |                 |              |                  |
| 12510 PA40 MARINE WAY INTERIM 12DW (CODE 7957)            | \$180,416          | \$507,000          | \$0             | \$0          | \$180,416        |
|   | <b>\$180,416</b>   | <b>\$507,000</b>   | <b>\$0</b>      | <b>\$0</b>   | <b>\$180,416</b> |
| <b>Development - PA51</b>                                 |                    |                    |                 |              |                  |
| 10107 PA51 REACH B SOUTH 12" SEWER FROM BARRANCA TO 5-FWY | \$27,062           | \$2,555,000        | \$0             | \$0          | \$27,062         |
| 10796 PA51 D5 "P" ST & CHINON 12DW                        | \$34,321           | \$147,000          | \$0             | \$0          | \$34,321         |
| 10861 PA51 D5 MERIT 12_10_RW                              | \$59,397           | \$312,000          | \$0             | \$0          | \$59,397         |
| 10862 PA51 D5 BB ST 12 RW                                 | \$59,397           | \$297,000          | \$0             | \$0          | \$59,397         |
| 10864 PA51 D5 ASTOR 10RW                                  | \$69,296           | \$342,000          | \$0             | \$0          | \$69,296         |
| 10865 PA51 D5 E ST 12RW                                   | \$32,998           | \$181,000          | \$0             | \$0          | \$32,998         |
| 10878 PA51 D5 F ST N ST 12_10RW                           | \$59,397           | \$317,000          | \$0             | \$0          | \$59,397         |
| 11176 PA51 D6 MARINE AND ALTON 12DW                       | \$412,754          | \$688,000          | \$0             | \$0          | \$412,754        |
| 11177 PA51 D6 MARINE AND ALTON 16RW                       | \$591,851          | \$963,000          | \$0             | \$0          | \$591,851        |
| 11939 PA51 MARINE AND BAKE 12DW                           | \$315,103          | \$663,000          | \$0             | \$0          | \$315,103        |
| 12143 PA51 GP5 12DW CODE 7740                             | \$183,029          | \$468,000          | \$0             | \$0          | \$183,029        |
| 12145 PA51 GP5 8RW CODE 7740                              | \$152,525          | \$372,000          | \$0             | \$0          | \$152,525        |
| 12146 PA51 MARINE AND ALTON CREEK 24SS CODE 7806          | \$1,830,295        | \$3,435,000        | \$0             | \$1,471,557  | \$358,738        |
| 12228 PA51 D5 HARRIER FROM CHINON TO LYNX 12DW CODE 7808  | \$472,201          | \$763,000          | \$0             | \$0          | \$472,201        |
| 12229 PA51 D5 D6 HARRIER FROM CHINON TO LYNX 12_15SS IRWD | \$341,766          | \$563,000          | \$0             | \$0          | \$341,766        |
| 12230 PA51 D5 D6 HARRIER FROM CHINON TO LYNX 10RW IRWD CO | \$237,418          | \$403,000          | \$0             | \$0          | \$237,418        |

| FY Exp Category  | FY 24-25<br>w/ G&A  | Total<br>w/ G&A      | FY Replacement     | FY Developed       | FY Developing      |
|--|---------------------|----------------------|--------------------|--------------------|--------------------|
| 12231 PA51 D5 D6 CHINON FROM HARRIER TO TREBLE 12DW IRWD   | \$127,201           | \$234,000            | \$0                | \$0                | \$127,201          |
| 12232 PA51 D5 D6 CHINON FROM HARRIER TO TREBLE 10RW IRWD C | \$212,635           | \$365,000            | \$0                | \$0                | \$212,635          |
| 12371 PA51 D5D6 MRWY EO SKYHWK 12_DW CODE 7902             | \$642,498           | \$1,135,000          | \$0                | \$0                | \$642,498          |
| 12386 PA51 D5D6 MRWY EO SKYHWK 18_SS (CODE 7902)           | \$532,155           | \$989,000            | \$0                | \$0                | \$532,155          |
| 12387 PA51 D5D6 MRWY EO SKYHWK 16_RW (CODE 7902)           | \$1,016,700         | \$1,695,000          | \$0                | \$0                | \$1,016,700        |
| 12404 PA51 D6 TRBLE_MRWY TO GP5 12_DW (CODE 7909)          | \$302,153           | \$567,000            | \$0                | \$0                | \$302,153          |
| 12405 PA51 D6 TRBLE_MRWY TO GP5 18_SS (CODE 7909)          | \$688,817           | \$1,296,000          | \$0                | \$0                | \$688,817          |
| 12406 PA51 D6 TRBLE_MRWY TO GP5 8_RW (CODE 7909)           | \$238,776           | \$478,000            | \$0                | \$0                | \$238,776          |
| 12432 PA51 D6 LYNX NO MRWY 12_DW CODE 7931                 | \$82,802            | \$245,000            | \$0                | \$0                | \$82,802           |
| 12433 PA51 D6 LYNX NO MRWY 15_SS CODE 7931                 | \$82,802            | \$245,000            | \$0                | \$0                | \$82,802           |
|  | <b>\$8,805,347</b>  | <b>\$19,718,000</b>  | <b>\$0</b>         | <b>\$1,471,557</b> | <b>\$7,333,790</b> |
| <b>General Plant</b>                                       |                     |                      |                    |                    |                    |
| 12590 GP_Dept 130_FY 24_25                                 | \$40,000            | \$40,000             | \$37,560           | \$1,960            | \$480              |
| 12591 GP_Dept 250_FY 24_25                                 | \$642,800           | \$642,800            | \$603,589          | \$31,497           | \$7,714            |
| 12592 GP_Dept 600_FY 24_25                                 | \$180,000           | \$180,000            | \$169,020          | \$8,820            | \$2,160            |
| 12593 GP_Dept 870_FY 24_25                                 | \$1,513,150         | \$1,513,150          | \$1,420,848        | \$74,144           | \$18,158           |
| 12607 GP_Dept 425_FY 24_25                                 | \$31,048            | \$31,048             | \$29,154           | \$1,521            | \$373              |
|  | <b>\$2,406,998</b>  | <b>\$2,406,998</b>   | <b>\$2,260,171</b> | <b>\$117,943</b>   | <b>\$28,884</b>    |
| <b>Nonpotable Storage</b>                                  |                     |                      |                    |                    |                    |
| 03808 SYPHON RESERVOIR IMPROVEMENTS                        | \$7,247,729         | \$146,000,000        | \$0                | \$5,247,355        | \$2,000,373        |
|  | <b>\$7,247,729</b>  | <b>\$146,000,000</b> | <b>\$0</b>         | <b>\$5,247,355</b> | <b>\$2,000,373</b> |
| <b>OC San - CORF</b>                                       |                     |                      |                    |                    |                    |
| 10500 OCSD EQUITY LONG TERM CAPITAL PROGRAM 2018 TO 2050   | \$5,177,000         | \$16,742,000         | \$0                | \$4,162,308        | \$1,014,692        |
| 10502 OCSD CORF LONG TERM CAPITAL PROGRAM 2018 TO 2050     | \$6,998,000         | \$210,379,000        | \$5,087,546        | \$1,560,554        | \$349,900          |
|  | <b>\$12,175,000</b> | <b>\$227,121,000</b> | <b>\$5,087,546</b> | <b>\$5,722,862</b> | <b>\$1,364,592</b> |
| <b>OCWD Annexation</b>                                     |                     |                      |                    |                    |                    |

| FY Exp Category   | FY 24-25<br>w/ G&A | Total<br>w/ G&A     | FY Replacement | FY Developed     | FY Developing    |
|---|--------------------|---------------------|----------------|------------------|------------------|
| 10503 OCWD ANNEXATION LONG TERM CAPITAL PROGRAM 2018 TO | \$654,000          | \$22,861,400        | \$0            | \$533,010        | \$120,990        |
|   | <b>\$654,000</b>   | <b>\$22,861,400</b> | <b>\$0</b>     | <b>\$533,010</b> | <b>\$120,990</b> |

### Operational Improvements

|   |                     |                     |                    |                     |                    |
|---|---------------------|---------------------|--------------------|---------------------|--------------------|
| 06161 OPERATIONS CENTER FACILITY REFRESH-SS                   | \$8,562             | \$740,000           | \$8,562            | \$0                 | \$0                |
| 07881 OPERATIONS CENTER CNG, DIESEL, GASOLINE FUELING FACILIT | \$556,918           | \$4,176,000         | \$185,454          | \$302,406           | \$69,058           |
| 07882 OPERATIONS CENTER CNG, DIESEL, GASOLINE FUELING FACILIT | \$1,113,835         | \$7,974,000         | \$370,907          | \$568,056           | \$174,872          |
| 10101 FLEMING DW RESERVOIR AND PUMP STATION IMPROVEMENT       | \$4,560,597         | \$16,740,000        | \$478,863          | \$4,081,735         | \$0                |
| 10379 SAN JOAQUIN RESERVOIR FILTRATION FACILITY               | \$5,180,772         | \$23,455,000        | \$0                | \$3,750,879         | \$1,429,893        |
| 11154 RADIO TOWER IMPROVEMENTS-DW                             | \$18,780            | \$231,000           | \$0                | \$15,306            | \$3,474            |
| 11156 RADIO TOWER IMPROVEMENTS-SS                             | \$20,030            | \$236,000           | \$0                | \$16,104            | \$3,926            |
| 11157 RADIO TOWER IMPROVEMENTS-RW                             | \$20,030            | \$236,000           | \$0                | \$14,502            | \$5,528            |
| 11828 WELLS 51/52 EQUIPPING                                   | \$410,499           | \$4,437,000         | \$0                | \$334,557           | \$75,942           |
| 11829 WELLS 51/52 PIPELINES TO DRWF                           | \$690,802           | \$10,874,000        | \$0                | \$563,004           | \$127,798          |
| 11854 OPERATIONS CENTER PURCHASING WAREHOUSE-DW               | \$89,889            | \$797,000           | \$0                | \$73,259            | \$16,629           |
| 11855 OPERATIONS CENTER PURCHASING WAREHOUSE-SS               | \$389,680           | \$797,000           | \$0                | \$313,303           | \$76,377           |
| 12506 DAMS INSTRUMENTATION & DATA ACQUISITION UPGRADES        | \$657,541           | \$1,386,000         | \$0                | \$476,060           | \$181,481          |
| 12542 IS GENERAL UPGRADES 23/24-24/25                         | \$100,000           | \$200,000           | \$0                | \$80,800            | \$19,200           |
|   | <b>\$13,817,936</b> | <b>\$72,279,000</b> | <b>\$1,043,786</b> | <b>\$10,589,970</b> | <b>\$2,184,180</b> |

### Planning

|  |                    |                    |                  |                    |                  |
|--|--------------------|--------------------|------------------|--------------------|------------------|
| 11782 CAPITAL PLANNING SUPPORT 23/24-24/25       | \$1,200,000        | \$2,400,000        | \$0              | \$939,600          | \$260,400        |
| 11792 NON-POTABLE WATER STUDIES 23/24-24/25      | \$37,500           | \$75,000           | \$0              | \$27,150           | \$10,350         |
| 12563 CIP AM LAWRP CONDITION ASSESSMENT          | \$350,000          | \$500,000          | \$350,000        | \$0                | \$0              |
| 12564 CIP AM CONDITION ASSESSMENT FY 23/24-24/25 | \$500,000          | \$500,000          | \$500,000        | \$0                | \$0              |
| 12580 LEAD AND COPPER RULE REVISION COMPLIANCE   | \$146,400          | \$500,000          | \$0              | \$119,316          | \$27,084         |
|  | <b>\$2,233,900</b> | <b>\$3,975,000</b> | <b>\$850,000</b> | <b>\$1,086,066</b> | <b>\$297,834</b> |

### Replacement - Facilities

| FY Exp Category   | FY 24-25<br>w/ G&A | Total<br>w/ G&A | FY Replacement | FY Developed | FY Developing |
|---|--------------------|-----------------|----------------|--------------|---------------|
| 01398 SANTIAGO CANYON AREA PUMP STATION IMPROVEMENTS        | \$91,339           | \$10,185,300    | \$0            | \$91,339     | \$0           |
| 01414 CP IMP-SAND CANYON 16" DW ANODE REPLACEMENT           | \$5,539            | \$278,100       | \$5,539        | \$0          | \$0           |
| 01813 SANTIAGO DAM OUTLET AND SPILLWAY                      | \$8,666,962        | \$139,307,000   | \$8,216,280    | \$355,345    | \$95,337      |
| 03750 SOCWA ETM PROTECTION-TRAIL BRIDGE CROSSING (PC 21)    | \$37,059           | \$1,215,000     | \$37,059       | \$0          | \$0           |
| 05406 NTS-EL MODENA NTS MODIFICATIONS                       | \$6,066            | \$347,000       | \$6,066        | \$0          | \$0           |
| 06159 CP IMP-CANADA ROAD JOINT BONDING                      | \$7,308            | \$280,000       | \$7,308        | \$0          | \$0           |
| 06160 OPERATIONS CENTER FACILITY REFRESH-DW                 | \$4,281            | \$370,000       | \$4,281        | \$0          | \$0           |
| 06162 CP IMP-CRYSTAL COVE RECTIFIER-DW                      | \$4,646            | \$170,000       | \$4,646        | \$0          | \$0           |
| 06163 CP IMP-CRYSTAL COVE RECTIFIER-RW                      | \$3,462            | \$155,000       | \$3,462        | \$0          | \$0           |
| 06164 CP IMP-CULVER CP5 RECT AND ANODE BED REPLACEMENT      | \$7,394            | \$291,000       | \$7,394        | \$0          | \$0           |
| 06169 CP IMP-ZN 8-9 PIPELINE ANODE BED LEAD WIRE REPLACEMEN | \$10,831           | \$385,000       | \$10,831       | \$0          | \$0           |
| 07892 MWRP TERTIARY FILTER REHABILITATION                   | \$5,014,414        | \$9,875,600     | \$5,014,414    | \$0          | \$0           |
| 10580 RW PIPELINE REPLACEMENT-SILKWOOD, WILLOWLEAF          | \$140,640          | \$423,000       | \$140,640      | \$0          | \$0           |
| 11123 LAKE FOREST WOODS SEWER IMPROVEMENTS                  | \$3,175,375        | \$5,313,000     | \$3,175,375    | \$0          | \$0           |
| 11189 SOCWA ETM AVAC VALVE REPLACEMENT REACHES D AND E (P   | \$41,558           | \$500,000       | \$41,558       | \$0          | \$0           |
| 11536 EMERGENCY GENERATOR FUEL STORAGE - DW                 | \$514,669          | \$2,567,800     | \$411,735      | \$83,891     | \$19,043      |
| 11537 EMERGENCY GENERATOR FUEL STORAGE - SS                 | \$403,431          | \$1,995,800     | \$363,088      | \$32,275     | \$8,069       |
| 11568 COASTAL ZONE B AND COASTAL ZONE D PUMP STATIONS ELEC  | \$344,110          | \$1,737,000     | \$344,110      | \$0          | \$0           |
| 11570 DRWF WELLSITE REHAB GROUP 1                           | \$1,883,159        | \$4,000,000     | \$1,883,159    | \$0          | \$0           |
| 11587 BRIDGE 175 AT SILVERADO CANYON RD, LADD CANYON DW I   | \$31,477           | \$674,900       | \$31,477       | \$0          | \$0           |
| 11588 BRIDGE 174 AT SILVERADO CANYON ROAD, COMMUNITY CEN    | \$4,562            | \$504,900       | \$4,562        | \$0          | \$0           |
| 11589 BRIDGE 177 AT SILVERADO CANYON RD READ RESERVOIR DW I | \$389,762          | \$564,900       | \$389,762      | \$0          | \$0           |
| 11593 BRIDGE 172 AT MODJESKA CANYON RD/MARKUSON RD DW I     | \$141,852          | \$564,900       | \$141,852      | \$0          | \$0           |
| 11841 SEWER SIPHON REHABILITATION PHASE 2                   | \$3,970,168        | \$9,725,000     | \$3,970,168    | \$0          | \$0           |
| 11912 COASTAL ZONE 2 AND COASTAL ZONE 4 PUMP STATIONS REH   | \$624,813          | \$1,392,000     | \$624,813      | \$0          | \$0           |
| 12101 RATTLESNAKE DAM REHABILITATION                        | \$1,601,655        | \$3,213,000     | \$1,601,655    | \$0          | \$0           |
| 12125 36 INCH SS RELOCATION AT SR133/SD CREEK               | \$122,222          | \$1,223,000     | \$122,222      | \$0          | \$0           |

| FY Exp Category |  | FY 24-25<br>w/ G&A  | Total<br>w/ G&A      | FY Replacement      | FY Developed     | FY Developing    |
|-----------------|--|---------------------|----------------------|---------------------|------------------|------------------|
| 12505           | SAND CANYON DAM SPILLWAY REHABILITATION              | \$218,667           | \$656,000            | \$218,667           | \$0              | \$0              |
| 12513           | HARDING CANYON DAM REHABILITATION                    | \$258,049           | \$951,500            | \$258,049           | \$0              | \$0              |
| 12537           | CIP AM LINEAR DW                                     | \$500,000           | \$500,000            | \$500,000           | \$0              | \$0              |
| 12538           | CIP AM LINEAR RW                                     | \$500,000           | \$500,000            | \$500,000           | \$0              | \$0              |
| 12539           | CIP AM LINEAR SS                                     | \$500,000           | \$500,000            | \$500,000           | \$0              | \$0              |
| 12543           | CORE NETWORK UPGRADES                                | \$889,126           | \$1,000,000          | \$889,126           | \$0              | \$0              |
| 12544           | ENTERPRISE SERVER UPGRADES                           | \$534,389           | \$650,000            | \$534,389           | \$0              | \$0              |
| 12550           | HVAC SYSTEM REPLACEMENT AT SAND CANYON AND OPS DW    | \$1,090,235         | \$2,294,000          | \$1,090,235         | \$0              | \$0              |
| 12551           | HVAC SYSTEM REPLACEMENT AT SAND CANYON AND OPS SS    | \$1,090,235         | \$2,294,000          | \$1,090,235         | \$0              | \$0              |
| 12552           | MWRP DIGESTER REHABILITATION                         | \$940,000           | \$4,060,000          | \$940,000           | \$0              | \$0              |
| 12554           | MWRP BIOSOLIDS CENTRATE TANK REPAIR                  | \$331,000           | \$412,000            | \$331,000           | \$0              | \$0              |
| 12555           | MWRP BIOSOLIDS HANDLING UPGRADES                     | \$157,500           | \$1,065,000          | \$157,500           | \$0              | \$0              |
| 12556           | MWRP BIOSOLIDS FOUL AIR SYSTEM REPAIR                | \$593,500           | \$687,000            | \$593,500           | \$0              | \$0              |
| 12557           | OPERATIONS CENTER ROOF REPLACEMENT-DW, BUILDINGS 50  | \$4,397             | \$313,000            | \$4,397             | \$0              | \$0              |
| 12559           | OPERATIONS CENTER ROOF REPLACEMENT-SS, BUILDINGS 50, | \$4,397             | \$313,000            | \$4,397             | \$0              | \$0              |
| 12565           | R&R PS EAST IRVINE ZN 3-4                            | \$950,000           | \$1,900,000          | \$950,000           | \$0              | \$0              |
| 12566           | R&R PS LAKE FOREST ZN 4-5 WEST                       | \$1,100,000         | \$2,200,000          | \$1,100,000         | \$0              | \$0              |
| 12567           | R&R PS TURTLE ROCK ZN 3-4                            | \$400,000           | \$800,000            | \$400,000           | \$0              | \$0              |
| 12568           | R&R TANK SHAW  | \$250,000           | \$500,000            | \$250,000           | \$0              | \$0              |
| 12569           | R&R TANK CHAPMAN                                     | \$250,000           | \$500,000            | \$250,000           | \$0              | \$0              |
| 12570           | R&R TANK BENNER                                      | \$145,833           | \$500,000            | \$145,833           | \$0              | \$0              |
| 12573           | IDP PTP TREATMENT SYSTEM REPLACEMENT                 | \$113,026           | \$665,000            | \$113,026           | \$0              | \$0              |
| 12575           | EDUCATIONAL DISPLAYS AND SIGNAGE                     | \$250,000           | \$500,000            | \$250,000           | \$0              | \$0              |
| 12596           | SOCWA ALISO CREEK OCEAN OUTFALL BALLAST REPAIR       | \$145,455           | \$300,000            | \$145,455           | \$0              | \$0              |
| 12615           | MWRP SERVICE A TRANSFORMER REPLACEMENT               | \$68,918            | \$760,100            | \$68,918            | \$0              | \$0              |
| 12620           | DRWF WELLSITE REHAB GROUP 2                          | \$190,600           | \$1,588,000          | \$190,600           | \$0              | \$0              |
|                 |  | <b>\$38,724,079</b> | <b>\$223,666,800</b> | <b>\$38,038,781</b> | <b>\$562,850</b> | <b>\$122,448</b> |



| FY Exp Category  | FY 24-25<br>w/ G&A  | Total<br>w/ G&A      | FY Replacement      | FY Developed       | FY Developing      |
|--|---------------------|----------------------|---------------------|--------------------|--------------------|
| <b>Replacement - FY System</b>                             |                     |                      |                     |                    |                    |
| 11844 LAWRP SYSTEM REPLACEMENTS 24/25                      | \$80,000            | \$80,000             | \$80,000            | \$0                | \$0                |
| 11850 GENERAL SYSTEM REPLACEMENTS AND MODIFICATIONS DW 2   | \$6,283,000         | \$6,283,000          | \$6,283,000         | \$0                | \$0                |
| 11851 GENERAL SYSTEM REPLACEMENTS AND MODIFICATIONS RW 2   | \$2,103,000         | \$2,103,000          | \$2,103,000         | \$0                | \$0                |
| 11852 GENERAL SYSTEM REPLACEMENTS AND MODIFICATIONS SS 24  | \$1,785,000         | \$1,785,000          | \$1,785,000         | \$0                | \$0                |
| 12529 IS GENERAL REPLACEMENTS 23/24-24/25                  | \$50,000            | \$100,000            | \$50,000            | \$0                | \$0                |
|  | <b>\$10,301,000</b> | <b>\$10,351,000</b>  | <b>\$10,301,000</b> | <b>\$0</b>         | <b>\$0</b>         |
| <b>Sewage Treatment</b>                                    |                     |                      |                     |                    |                    |
| 01477 LAWRP TREATMENT PROCESS MODERNIZATION                | \$3,077             | \$202,434,250        | \$3,077             | \$0                | \$0                |
| 01659 MWRP EXPANSION PHASE 3 (MBR)-RW                      | \$682,297           | \$21,258,000         | \$0                 | \$493,983          | \$188,314          |
| 01797 MWRP EXPANSION PHASE 3 (MBR)-SS                      | \$1,404,731         | \$43,680,000         | \$0                 | \$1,129,404        | \$275,327          |
| 11832 MWRP TRIBUTARY GRAVITY DIVERSION TO LAWRP            | \$2,632             | \$2,942,000          | \$0                 | \$2,116            | \$516              |
| 11833 MWRP EXPANSION PHASE 3 (CAS) IMPROVEMENTS            | \$552,297           | \$17,867,000         | \$0                 | \$444,047          | \$108,250          |
| 12541 MWRP BIOSOLIDS LIFT STATION                          | \$171,795           | \$3,262,000          | \$0                 | \$138,123          | \$33,672           |
|  | <b>\$2,816,829</b>  | <b>\$291,443,250</b> | <b>\$3,077</b>      | <b>\$2,207,673</b> | <b>\$606,079</b>   |
| <b>Water Banking</b>                                       |                     |                      |                     |                    |                    |
| 10854 KERN FAN GROUNDWATER STORAGE                         | \$5,577,500         | \$115,410,500        | \$0                 | \$4,545,663        | \$1,031,838        |
| 11746 SITES RESERVOIR PLANNING AND ENVIRONMENTAL REVIEW    | \$269,782           | \$1,236,500          | \$0                 | \$219,872          | \$49,910           |
| 12584 PALO VERDE IRRIGATION DISTRICT PROPERTY IMPROVEMENTS | \$35,091            | \$88,000             | \$0                 | \$28,599           | \$6,492            |
|  | <b>\$5,882,373</b>  | <b>\$116,735,000</b> | <b>\$0</b>          | <b>\$4,794,134</b> | <b>\$1,088,239</b> |
| <b>Water Resources</b>                                     |                     |                      |                     |                    |                    |
| 06176 FUTURE GROUNDWATER SUPPLY                            | \$18,600            | \$55,607,500         | \$0                 | \$15,159           | \$3,441            |
| 11747 DELTA CONVEYANCE PROJECT PLANNING AND ENVIRONMENT    | \$57,382            | \$263,000            | \$0                 | \$46,766           | \$10,616           |
| 11798 RW CONVERSION IMPROVEMENTS FOR OFF-SITE 24/25        | \$200,000           | \$200,000            | \$200,000           | \$0                | \$0                |
| 11800 POTABLE WATER STUDIES 23/24-24/25                    | \$750,000           | \$1,500,000          | \$0                 | \$611,250          | \$138,750          |
| 12514 AMI IMPLEMENTATION - DW                              | \$36,005            | \$90,000             | \$0                 | \$29,344           | \$6,661            |

| FY Exp Category                     | FY 24-25<br>w/ G&A   | Total<br>w/ G&A        | FY Replacement      | FY Developed        | FY Developing       |
|-------------------------------------|----------------------|------------------------|---------------------|---------------------|---------------------|
| 12515 AMI IMPLEMENTATION - RW       | \$36,005             | \$90,000               | \$0                 | \$26,068            | \$9,937             |
|                                     | <b>\$1,097,992</b>   | <b>\$57,750,500</b>    | <b>\$200,000</b>    | <b>\$728,587</b>    | <b>\$169,405</b>    |
| <b>Well Rehabilitation</b>          |                      |                        |                     |                     |                     |
| 11137 WELL REHAB-IDP 76             | \$31,076             | \$409,500              | \$31,076            | \$0                 | \$0                 |
| 11846 WELL REHAB-WELL 115R          | \$368,391            | \$902,000              | \$368,391           | \$0                 | \$0                 |
| 11847 WELL REHAB-IDP 110            | \$577,997            | \$1,006,500            | \$577,997           | \$0                 | \$0                 |
| 11856 WELL REHAB-TUSTIN DESALTER 21 | \$25,361             | \$1,006,500            | \$25,361            | \$0                 | \$0                 |
| 11858 WELL REHAB-WELL ET2           | \$26,000             | \$1,076,300            | \$26,000            | \$0                 | \$0                 |
| 12263 WELL REHAB-TUSTIN DESALTER 22 | \$25,361             | \$1,006,500            | \$25,361            | \$0                 | \$0                 |
| 12264 WELL REHAB-WELL 106           | \$272,106            | \$1,041,500            | \$272,106           | \$0                 | \$0                 |
|                                     | <b>\$1,326,292</b>   | <b>\$6,448,800</b>     | <b>\$1,326,292</b>  | <b>\$0</b>          | <b>\$0</b>          |
|                                     | <b>\$111,040,742</b> | <b>\$1,230,278,348</b> | <b>\$59,143,771</b> | <b>\$33,339,185</b> | <b>\$18,557,786</b> |

# Exhibit "C"

## RESOLUTION NO. 2023 - 6

### RESOLUTION OF THE BOARD OF DIRECTORS OF IRVINE RANCH WATER DISTRICT APPROVING A CAPITAL BUDGET FOR FISCAL YEARS 2023-24 AND 2024-25

A. The Board of Directors of the Irvine Ranch Water District (IRWD) has considered the capital project needs of IRWD for Fiscal Years 2023-24 and 2024-25.

B. A Capital Budget, which includes both the capital expenditures projected for Fiscal Year 2023-24 and 2024-25 and entire project budgets for the listed projects, as set forth in the attached Exhibit "A" has been prepared for and reviewed by this Board of Directors.

C. During the review of the Capital Budget by the Board of Directors, the Board "flagged" certain capital expenditures for projects for further review by the Board.

The Board of Directors of IRWD therefore resolves as follows:

Section 1. The revenues that have been collected from connection fees and have been deposited in the capital funds of the Improvement Districts, to the extent not previously or hereafter committed or appropriated to pay reimbursement, bonding, and other financing or fund-management related costs for capital facilities, are hereby appropriated to pay costs of the projects shown in the Capital Budget.

Section 2. Subject in all respects to prior pledges for debt service requirements, including those contained in Resolution No. 2002-10, the Treasurer is hereby authorized and directed to allocate to the Replacement Fund 32% of the general 1% ad valorem property tax revenues for the 2023-24 and 2024-25 fiscal years, to be expended for qualified capital outlay projects.

Section 3. IRWD's Capital Budget for Fiscal Years 2023-24 and 2024-25 is in compliance with the provisions of Article XIII B of the Constitution of the State of California.

Section 4. IRWD's Capital Budget for Fiscal Years 2023-24 and 2024-25, shown in the attached Exhibit "A", is hereby approved.

Section 5. The capital expenditures for projects set forth in the attached Exhibit "A" identified with "Yes" in the Flagged report section are "flagged" for further review by the Board of Directors prior to implementation, pursuant to the Policy Regarding Authorization of Expenditures.

ADOPTED, SIGNED, and APPROVED on April 24, 2023.

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President, IRVINE RANCH WATER DISTRICT

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Secretary, IRVINE RANCH WATER DISTRICT

APPROVED AS TO FORM:  
Hanson Bridgett, LLP

By: \_\_\_\_\_  
General Counsel

April 24, 2023  
Prepared and  
submitted by: L. Bonkowski  
Approved by: Paul A. Cook *PAC*

CONSENT CALENDAR

BOARD MEETING MINUTES

SUMMARY:

Provided are the minutes of the April 10, 2023 Regular Board meeting for approval.

FISCAL IMPACTS:

None.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

Not applicable.

RECOMMENDATION:

THAT THE MINUTES OF THE APRIL 10, 2023 REGULAR BOARD MEETING BE APPROVED AS PRESENTED.

LIST OF EXHIBITS:

Exhibit "A" – April 10, 2023 Minutes

Note: This page is intentionally left blank.

## EXHIBIT "A"

### MINUTES OF REGULAR MEETING –APRIL 10, 2023

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 McLaughlin on April 10, 2023 at the District offices, 15600 Sand Canyon Avenue, Irvine.

Directors Present: LaMar, Reinhart, Swan, and McLaughlin

Directors Absent: Withers

Written and Oral Communications: None.

Also Present: General Manager Cook, Executive Director of Operations Chambers, Executive Director of Finance and Administration Clary, Executive Director of Technical Services Burton, Executive Director of Water Policy Weghorst, Director of Strategic Communications and Advocacy / Deputy General Counsel Compton, Director of Water Resources Sanchez, Director of Recycling Operations Zepeda, Director of Human Resources Mitcham, Director of Water Quality and Regulatory Compliance Colston, Director of Safety and Security Choi, Director of Maintenance Manning, Director of Treasury Morris, Director of Information Services Kaneshiro, Secretary Bonkowski, Assistant Secretary Swan, General Counsel Collins, and members of the staff and public.

### WORKSHOP

#### FISCAL YEARS 2023-24 AND 2024-25 OPERATING AND NON-OPERATING BUDGETS

General Manager Cook reported that the proposed Fiscal Year (FY) 2023-24 net Operating Budget is \$220.7 million, representing an increase of \$32.9 million or 17.5% over the prior year. The proposed FY 2024-25 net Operating Budget is \$234.5 million, representing an increase of \$13.8 million or 6.3% over FY 2023-24. Mr. Cook said that based on these proposed budgets, staff is recommending a rate increase of 9.9% for the average residential customer in each of these two fiscal years.

Using a PowerPoint presentation, Executive Director of Finance and Administration Clary said that the assumptions driving the proposed budgets and associated rates include both uncontrollable and controllable increases and reviewed the cost escalators in both areas. Using charts, Ms. Clary reviewed the key drivers of the budgets including salaries and benefits, purchased water, repairs and maintenance, and electricity. She further reviewed the proposed water and recycled water rates, recycled water savings for homeowner customers, proposed water and sewer service fixed monthly charges for system operation and maintenance, average yearly rate increase history, rate comparisons for water and sewer with other water agencies, proposed pumping surcharges by areas for potable and recycled water, water shortage contingency plan rates, and next steps which include a second workshop on April 24, Proposition 18 Notices to be mailed by May 12, and a public hearing / rate adoption on June 26. The budget would become effective July 1.

Director LaMar said that this item was reviewed by the Finance and Personnel Committee meeting, and that staff were very responsive to their questions. General Manager Cook thanked staff for their efforts in preparing these budgets.

CONSENT CALENDAR

On **MOTION** by LaMar, seconded by Reinhart, and unanimously carried, **CONSENT CALENDAR ITEMS 5 THROUGH 9 WERE APPROVED AS FOLLOWS:**

5. BOARD MEETING MINUTES

Recommendation: That the minutes of the March 27, 2023 Regular Board Meeting be approved as presented.

6. 2023 LEGISLATIVE AND REGULATORY UPDATE

Recommendation: That the Board adopt support AB 246 (Papan), AB 727 (Weber), AB 735 (Berman), AB 1290 (Luz Rivas), AB 1594 (E. Garcia, D-Coachella), SB 414 (Allen), and SB 659 (Ashby); a “seek amendments” position on AB 1573 (Friedman); an “oppose unless amended” position on AB 754 (Papan), AB 755 (Papan), AB 838 (Connolly), and AB 1337 (Wicks); and an “oppose” position on AB 1072 (Wicks), SB 48 (Becker), SB 57 (Gonzalez), and SB 778 (Ochoa Bogh).

7. QUITCLAIM OF EXEMPT SURPLUS LAND

Recommendation: That the Board approve the quitclaim of the portion of exempt surplus property to Ms. Christine Martinez for one dollar.

8. RESCISSION OF LEVEL TWO WATER SHORTAGE DECLARATION

Recommendation: That the Board adopt the following resolution by title rescinding Resolution No. 2021-22 declaring water shortage Level Two (Significant Shortage Condition):

RESOLUTION NO. 2023-4

RESOLUTION OF THE BOARD OF DIRECTORS OF  
IRVINE RANCH WATER DISTRICT  
RESCINDING RESOLUTION NO. 2021-21  
DECLARING WATER SHORTAGE LEVEL TWO  
(SIGNIFICANT SHORTAGE CONDITION).

9. ORACLE SOFTWARE MAINTENANCE AND SUPPORT RENEWAL AGREEMENT

Recommendation: That the Board authorize the General Manager to execute the Oracle Software Maintenance and Support Renewal Agreement in the not-to-exceed amount of \$2,090,000 for a term of two years: from June 1, 2023 through May 31, 2025.



## ACTION CALENDAR

### 10. NEWPORT BAY WATERSHED COOPERATIVE AGREEMENT

On MOTION by Swan, seconded by LaMar and unanimously carried, THE BOARD AUTHORIZED THE GENERAL MANAGER TO EXECUTE THE COOPERATIVE AGREEMENT TO FUND TOTAL MAXIMUM DAILY LOAD PROGRAMS AND RELATED ACTIVITIES IN THE NEWPORT BAY WATERSHED (NO. MA-080-23010376).

## OTHER BUSINESS

### 11. General Manager's Report

General Manager Cook reported on a \$4.7 million grant from the Bureau of Reclamation for Groundwater Banking in Kern Fan, and thanked staff for all of their efforts.

### 12. Oral Updates

Mr. Cook said that Consultant Newell was unable to attend the meeting this evening, but he relayed that all is going well in the canyon.

### 13. Directors' Comments

Director LaMar reported on his attendance at an ACWA Executive Committee meeting and Board meeting in Sacramento, a WACO meeting, and a Southern California Water Coalition Task Force meeting today.

Director Swan reported on his attendance at a San Joaquin Wildlife Sanctuary Board meeting, a MWDOC Board workshop and an annual Elected Officials forum, a WACO monthly meeting, a Southern California Dialogue meeting, a Newport Chambers of Commerce meeting, and an Urban Water Institute planning meeting.

Director Reinhart said that he attended the meetings on the list except for a SOCWA Board meeting.

Director McLaughlin reported on her attendance at a San Joaquin Wildlife Sanctuary Board meeting and a Southern California Water Coalition Task Force, but said she was unable to attend the WACO meeting.

### 14. Adjournment

At the request of Director Swan, President McLaughlin adjourned the meeting in memory of Mr. Ray Auerbach who served on the IRWD Board of Directors from 1979 through 1998.

APPROVED and SIGNED this 24<sup>th</sup> day of April 2023.

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President, IRVINE RANCH WATER DISTRICT

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Secretary, IRVINE RANCH WATER DISTRICT

APPROVED AS TO FORM:


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Claire Hervey Collins, General Counsel  
Hanson Bridgett LLP

April 24, 2023

Prepared by: O. Mendoza / J. Davis

Submitted by: K. Morris / C. Clary

Approved by: Paul A. Cook 

## CONSENT CALENDAR

### MARCH 2023 TREASURY REPORT

#### SUMMARY:

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

- A. The March 2023 Investment Summary Report. This Investment Summary Report conforms with the 2023 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 March 31, 2023, as outlined in Exhibit "B";
- C. The Monthly Interest Rate Swap Summary as of March 31, 2023, as outlined in Exhibit "C";
- D. The March 31, 2023 Disbursement Summary of warrants 434259 through 435046, Workers' Compensation distributions, ACH payments, virtual card payments, wire transfers, payroll withholding distributions, and voided checks in the total amount of \$21,164,204, as outlined in Exhibit "D";
- E. The Summary of Payroll ACH payments in the total amount of \$2,376,574 as outlined in Exhibit "E"; and
- F. The Disclosure Report of Reimbursements to Board members and staff for March 2023, detailing payments or reimbursements for individual charges of \$100 or more per transaction, as outlined in Exhibit "F".

#### FISCAL IMPACTS:

As of March 31, 2023, the book value of the investment portfolio was \$373,407,343, with a 2.98% rate of return and a market value of \$370,686,729. Based on IRWD's December 31, 2022, quarterly real estate investment rate of return of 13.02%, the weighted average return for the fixed income and real estate investments was 5.08%.

As of March 31, 2023, the outstanding principal amount of fixed and variable rate debt was \$606,690,000. The monthly weighted average all-in variable rate was 2.76%. Including IRWD's weighted average fixed rate bond issues of 3.72% 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 3.50%.

Payroll ACH payments totaled \$2,376,574 and wire transfers, all other ACH payments, and checks issued for debt service, accounts payable, payroll, water purchases, and voided checks for February totaled \$21,164,204.

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:

All items in this report were 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 THE DISCLOSURE REPORT OF REIMBURSEMENTS TO BOARD MEMBERS AND STAFF, APPROVE THE MARCH 2023 SUMMARY OF PAYROLL ACH PAYMENTS IN THE TOTAL AMOUNT OF \$2,376,574, AND APPROVE THE MARCH 2023 ACCOUNTS PAYABLE DISBURSEMENT SUMMARY OF WARRANTS 434259 THROUGH 435046, WORKERS' COMPENSATION DISTRIBUTIONS, ACH PAYMENTS, VIRTUAL CARD PAYMENTS, WIRE TRANSFERS, PAYROLL WITHHOLDING DISTRIBUTIONS AND VOIDED CHECKS IN THE TOTAL AMOUNT OF \$21,164,204.

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

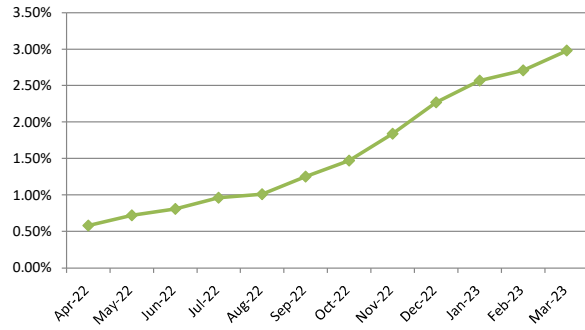
Exhibit "E" – Monthly Payroll ACH Summary

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

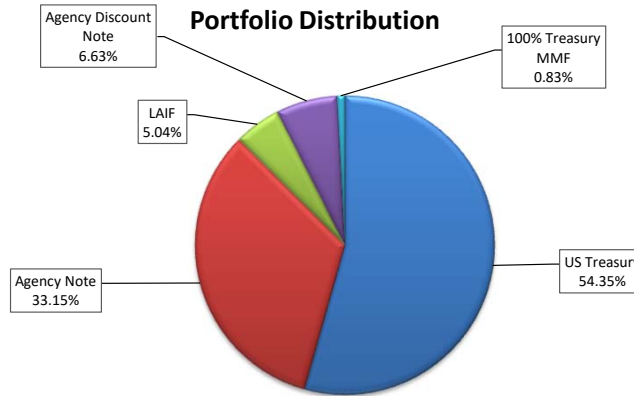
# Exhibit "A"

## Irvine Ranch Water District Investment Portfolio Summary March 2023

**Monthly Fixed Income Yield**



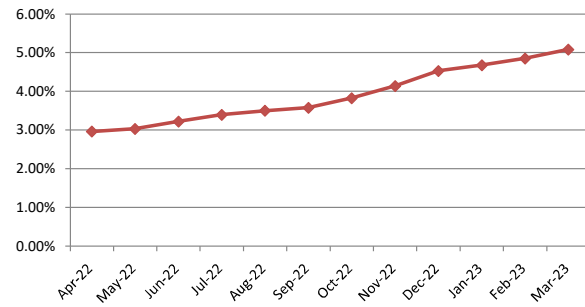
**Portfolio Distribution**



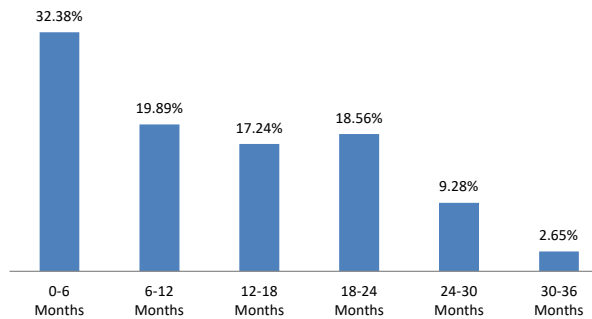
**Investment Summary**

| Type               | PAR                | Book Value         | Market Value       |
|--------------------|--------------------|--------------------|--------------------|
| US Treasury        | 205,000,000        | 202,710,606        | 200,888,950        |
| Agency Note        | 125,000,000        | 123,963,499        | 123,410,450        |
| Agency Discount    | 25,000,000         | 24,620,755         | 24,628,450         |
| LAF                | 19,000,000         | 19,000,000         | 18,646,396         |
| 100% Treasury MMF  | 3,112,483          | 3,112,483          | 3,112,483          |
| <b>Grand Total</b> | <b>377,112,483</b> | <b>373,407,343</b> | <b>370,686,729</b> |

**Weighted Average Return Including Real Estate Portfolio**



**Maturity Distribution**



**Top Issuers**

| Issuer                      | PAR                | % Portfolio    |
|-----------------------------|--------------------|----------------|
| US Treasury                 | 205,000,000        | 54.36%         |
| Fed Home Loan Bank          | 90,000,000         | 23.87%         |
| Fed Farm Credit Bank        | 45,000,000         | 11.93%         |
| State of California Tsy.    | 19,000,000         | 5.04%          |
| Fed Home Loan Mortgage Corp | 10,000,000         | 2.65%          |
| Fed Natl Mortgage Assoc     | 5,000,000          | 1.33%          |
| Wells Fargo / Allspring     | 3,112,483          | 0.82%          |
| <b>Grand Total</b>          | <b>377,112,483</b> | <b>100.00%</b> |

IRVINE RANCH WATER DISTRICT  
INVESTMENT SUMMARY REPORT

03/31/23

| SETTLMT    | Call Schedule | Initial Call | Maturity Date | Rating      | INVESTMENT TYPE      | INSTITUTION / ISSUER        | PAR Amount   | COUPON DISCOUNT | YIELD  | ORIGINAL COST | CARRY VALUE   | MARKET VALUE <sup>(1)</sup><br>3/31/2023 | UNREALIZED <sup>(2)</sup><br>GAIN/(LOSS) |
|------------|---------------|--------------|---------------|-------------|----------------------|-----------------------------|--------------|-----------------|--------|---------------|---------------|--|--|
| 03/30/23   |               |              | 04/01/23      |             | LAIF                 | State of California Tsy.    | 19,000,000   |                 | 2.870% | 19,000,000    | 19,000,000    | 18,646,395.90                            | (353,604.10)                             |
| 03/31/23   |               |              | 04/01/23      |             | 100% Treasury MMF    | Wells Fargo / Allspring     | 3,112,482.60 |                 | 4.150% | 3,112,482.60  | 3,112,482.60  | 3,112,482.60                             | 0.00                                     |
| 03/31/23   | NA            | NA           | 04/20/23      | NR          | FHLB - Discount Note | Fed Home Loan Bank          | 5,000,000    | 4.500%          | 4.574% | 4,987,500.00  | 4,988,125.00  | 4,989,350.00                             | 1,225.00                                 |
| 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  | 9,999,391.38  | 9,966,100.00                             | (33,291.38)                              |
| 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  | 9,998,558.61  | 9,966,100.00                             | (32,458.61)                              |
| 08/31/22   | NA            | NA           | 05/05/23      | Aaa/AA+/AAA | FHLMC - Note         | Fed Home Loan Mortgage Corp | 5,000,000    | 0.375%          | 3.321% | 4,902,050.00  | 4,986,517.00  | 4,981,800.00                             | (4,717.00)                               |
| 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  | 9,995,738.64  | 9,926,300.00                             | (69,438.64)                              |
| 02/28/23   | NA            | NA           | 06/15/23      | NR          | FHLB - Discount Note | Fed Home Loan Bank          | 5,000,000    | 4.770%          | 4.906% | 4,929,112.50  | 4,950,312.50  | 4,952,650.00                             | 2,337.50                                 |
| 12/29/21   | NA            | NA           | 06/30/23      | Aaa/AA/AAA  | Treasury - Note      | US Treasury                 | 5,000,000    | 0.125%          | 0.563% | 4,967,187.50  | 4,994,611.09  | 4,945,600.00                             | (49,011.09)                              |
| 04/21/22   | NA            | NA           | 06/30/23      | Aaa/AA/AAA  | Treasury - Note      | US Treasury                 | 10,000,000   | 1.375%          | 2.107% | 9,914,062.50  | 9,982,219.83  | 9,920,900.00                             | (61,319.83)                              |
| 01/24/23   | NA            | NA           | 07/12/23      | NR          | FHLB - Discount Note | Fed Home Loan Bank          | 5,000,000    | 4.685%          | 4.857% | 4,890,032.64  | 4,933,629.17  | 4,935,050.00                             | 1,420.83                                 |
| 03/31/23   | NA            | NA           | 07/19/23      | NR          | FHLB - Discount Note | Fed Home Loan Bank          | 5,000,000    | 4.675%          | 4.809% | 4,928,576.39  | 4,929,225.70  | 4,930,550.00                             | 1,324.30                                 |
| 01/11/22   | NA            | NA           | 07/31/23      | Aaa/AA/AAA  | Treasury - Note      | US Treasury                 | 5,000,000    | 0.125%          | 0.710% | 4,954,882.81  | 4,990,354.81  | 4,924,600.00                             | (65,754.81)                              |
| 02/28/22   | NA            | NA           | 07/31/23      | Aaa/AA/AAA  | Treasury - Note      | US Treasury                 | 5,000,000    | 0.125%          | 1.408% | 4,909,960.94  | 4,978,967.71  | 4,924,600.00                             | (54,367.71)                              |
| 03/31/23   | NA            | NA           | 08/03/23      | Aaa/NR/AAA  | Treasury - Bill      | US Treasury                 | 5,000,000    | 4.570%          | 4.708% | 4,920,659.70  | 4,921,294.42  | 4,920,300.00                             | (994.42)                                 |
| 01/13/22   | NA            | NA           | 08/15/23      | Aaa/AA/AAA  | Treasury - Note      | US Treasury                 | 10,000,000   | 0.125%          | 0.769% | 9,898,437.50  | 9,976,144.21  | 9,828,500.00                             | (147,644.21)                             |
| 02/15/22   | NA            | NA           | 08/31/23      | Aaa/AA/AAA  | Treasury - Note      | US Treasury                 | 5,000,000    | 0.125%          | 1.473% | 4,898,046.88  | 4,972,425.49  | 4,906,050.00                             | (66,375.49)                              |
| 08/23/22   | NA            | NA           | 09/15/23      | Aaa/AA/AAA  | Treasury - Note      | US Treasury                 | 5,000,000    | 0.125%          | 3.154% | 4,842,968.75  | 4,932,411.81  | 4,898,250.00                             | (34,161.81)                              |
| 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  | 9,984,048.80  | 9,785,900.00                             | (198,148.80)                             |
| 01/13/23   | NA            | NA           | 10/03/23      | Aaa/AA+/NR  | FHLB - Note          | Fed Home Loan Bank          | 5,000,000    | 4.750%          | 4.809% | 4,998,200.00  | 4,998,733.84  | 5,001,750.00                             | 3,016.16                                 |
| 03/31/22   | NA            | NA           | 10/31/23      | Aaa/AA/AAA  | Treasury - Note      | US Treasury                 | 5,000,000    | 1.625%          | 2.155% | 4,958,984.38  | 4,984,911.35  | 4,911,700.00                             | (73,211.35)                              |
| 04/21/22   | NA            | NA           | 10/31/23      | Aaa/AA/AAA  | Treasury - Note      | US Treasury                 | 5,000,000    | 1.625%          | 2.380% | 4,943,750.00  | 4,978,528.23  | 4,911,700.00                             | (66,828.23)                              |
| 03/31/22   | NA            | NA           | 11/30/23      | Aaa/AA/AAA  | Treasury - Note      | US Treasury                 | 5,000,000    | 0.500%          | 2.210% | 4,860,742.19  | 4,944,434.08  | 4,862,100.00                             | (82,334.08)                              |
| 04/21/22   | NA            | NA           | 11/30/23      | Aaa/AA/AAA  | Treasury - Note      | US Treasury                 | 5,000,000    | 0.500%          | 2.462% | 4,846,093.75  | 4,936,395.89  | 4,862,100.00                             | (74,295.89)                              |
| 08/31/22   | NA            | NA           | 12/08/23      | Aaa/AA+/NR  | FHLB - Note          | Fed Home Loan Bank          | 5,000,000    | 3.375%          | 3.576% | 4,987,445.00  | 4,993,208.39  | 4,949,950.00                             | (43,258.39)                              |
| 04/14/22   | NA            | NA           | 12/15/23      | Aaa/AA/AAA  | Treasury - Note      | US Treasury                 | 5,000,000    | 0.125%          | 2.213% | 4,829,687.50  | 4,927,966.19  | 4,842,950.00                             | (85,016.19)                              |
| 01/17/23   | NA            | NA           | 01/12/24      | NR          | FHLB - Discount Note | Fed Home Loan Bank          | 5,000,000    | 4.545%          | 4.771% | 4,772,750.00  | 4,819,462.50  | 4,820,850.00                             | 1,387.50                                 |
| 03/22/22   | NA            | NA           | 01/31/24      | Aaa/AA/AAA  | Treasury - Note      | US Treasury                 | 5,000,000    | 0.875%          | 2.013% | 4,896,484.38  | 4,953,570.20  | 4,842,000.00                             | (111,570.20)                             |
| 08/31/22   | NA            | NA           | 01/31/24      | Aaa/AA/AAA  | Treasury - Note      | US Treasury                 | 5,000,000    | 2.500%          | 3.445% | 4,935,156.25  | 4,961,819.80  | 4,909,950.00                             | (51,869.80)                              |
| 12/16/22   | NA            | NA           | 02/15/24      | Aaa/AA/AAA  | Treasury - Note      | US Treasury                 | 5,000,000    | 2.750%          | 4.531% | 4,899,804.69  | 4,924,735.92  | 4,915,450.00                             | (9,285.92)                               |
| 03/22/22   | NA            | NA           | 02/29/24      | Aaa/AA/AAA  | Treasury - Note      | US Treasury                 | 5,000,000    | 1.500%          | 2.020% | 4,850,813.75  | 4,859,200.00  | 4,859,200.00                             | (117,613.73)                             |
| 03/10/22   | NA            | NA           | 03/08/24      | Aaa/AA+/NR  | FHLB - Note          | Fed Home Loan Bank          | 10,000,000   | 1.875%          | 1.680% | 10,038,080.00 | 10,017,864.69 | 9,736,200.00                             | (281,664.69)                             |
| 04/21/22   | NA            | NA           | 04/30/24      | Aaa/AA/AAA  | Treasury - Note      | US Treasury                 | 10,000,000   | 2.000%          | 2.600% | 9,882,421.88  | 9,937,238.71  | 9,723,800.00                             | (213,438.71)                             |
| 05/31/22   | NA            | NA           | 05/31/24      | Aaa/AA/AAA  | Treasury - Note      | US Treasury                 | 10,000,000   | 2.500%          | 2.560% | 9,988,281.25  | 9,993,170.74  | 9,772,300.00                             | (220,870.74)                             |
| 08/17/22   | NA            | NA           | 06/14/24      | Aaa/AA+/AAA | FHLB - Note          | Fed Home Loan Bank          | 5,000,000    | 3.125%          | 3.315% | 4,983,200.00  | 4,988,917.53  | 4,915,050.00                             | (73,867.53)                              |
| 12/16/22   | NA            | NA           | 06/14/24      | Aaa/AA+/AAA | FHLB - Note          | Fed Home Loan Bank          | 5,000,000    | 4.875%          | 4.611% | 5,018,300.00  | 5,014,747.25  | 5,017,200.00                             | 2,452.75                                 |
| 12/01/22   | NA            | NA           | 07/02/24      | Aaa/AA+/AAA | FNMA - Note          | Fed Natl Mortgage Assoc     | 5,000,000    | 1.750%          | 4.450% | 4,795,376.45  | 4,838,138.88  | 4,822,450.00                             | (15,688.88)                              |
| 08/17/22   | NA            | NA           | 07/31/24      | Aaa/AA/AAA  | Treasury - Note      | US Treasury                 | 5,000,000    | 3.000%          | 3.249% | 4,976,562.50  | 4,984,013.92  | 4,907,250.00                             | (76,763.92)                              |
| 08/31/22   | NA            | NA           | 08/26/24      | Aaa/AA+/NR  | FFCB - Note          | Fed Farm Credit Bank        | 5,000,000    | 3.375%          | 3.500% | 4,988,050.00  | 4,991,555.99  | 4,938,150.00                             | (53,405.99)                              |
| S 09/09/22 | One Time      | 11/28/2022   | 08/28/24      | Aaa/AA+/NR  | FHLB - Note          | Fed Home Loan Bank          | 5,000,000    | 4.000%          | 3.950% | 4,995,000.00  | 4,996,418.64  | 4,962,550.00                             | (33,868.64)                              |
| 02/28/23   | One Time      | 8/28/2023    | 08/28/24      | Aaa/AA+/NR  | FHLB - Note          | Fed Home Loan Bank          | 5,000,000    | 5.250%          | 5.338% | 4,993,750.00  | 4,994,115.63  | 4,995,550.00                             | 1,434.37                                 |
| 08/31/22   | NA            | NA           | 09/13/24      | Aaa/AA+/NR  | FHLB - Note          | Fed Home Loan Bank          | 5,000,000    | 3.250%          | 3.530% | 4,972,750.00  | 5,002,764.78  | 4,914,300.00                             | (88,464.78)                              |
| 09/30/22   | NA            | NA           | 09/13/24      | Aaa/AA+/NR  | FHLB - Note          | Fed Home Loan Bank          | 5,000,000    | 3.250%          | 4.340% | 4,898,930.00  | 4,924,834.50  | 4,914,300.00                             | (10,534.50)                              |
| 09/30/22   | NA            | NA           | 09/26/24      | Aaa/AA+/NR  | FFCB - Note          | Fed Farm Credit Bank        | 5,000,000    | 4.250%          | 4.334% | 4,992,100.00  | 4,994,088.58  | 4,988,800.00                             | (10,288.58)                              |
| 10/17/22   | NA            | NA           | 10/17/24      | Aaa/AA+/NR  | FFCB - Note          | Fed Farm Credit Bank        | 10,000,000   | 4.375%          | 4.535% | 9,969,800.00  | 9,976,658.00  | 9,972,600.00                             | (4,058.00)                               |
| 10/31/22   | NA            | NA           | 11/15/24      | Aaa/AA/AAA  | Treasury - Note      | US Treasury                 | 5,000,000    | 2.250%          | 4.489% | 4,783,984.38  | 4,827,998.29  | 4,841,200.00                             | 13,201.71                                |
| 12/22/22   | NA            | NA           | 11/18/24      | Aaa/AA+/AAA | FFCB - Note          | Fed Farm Credit Bank        | 5,000,000    | 0.875%          | 4.260% | 4,693,316.75  | 4,737,317.22  | 4,732,000.00                             | (5,317.22)                               |
| 10/31/22   | NA            | NA           | 12/31/24      | Aaa/AA/AAA  | Treasury - Note      | US Treasury                 | 5,000,000    | 2.250%          | 4.471% | 4,773,046.88  | 4,816,603.54  | 4,834,750.00                             | 18,146.46                                |
| 10/31/22   | NA            | NA           | 12/31/24      | Aaa/AA/AAA  | Treasury - Note      | US Treasury                 | 5,000,000    | 2.250%          | 4.483% | 4,771,875.00  | 4,815,656.57  | 4,834,750.00                             | 19,093.43                                |
| 10/31/22   | NA            | NA           | 01/15/25      | Aaa/AA/AAA  | Treasury - Note      | US Treasury                 | 5,000,000    | 1.125%          | 4.476% | 4,651,562.50  | 4,717,191.37  | 4,736,350.00                             | 19,158.63                                |
| 10/31/22   | NA            | NA           | 01/31/25      | Aaa/AA/AAA  | Treasury - Note      | US Treasury                 | 5,000,000    | 2.500%          | 4.483% | 4,789,843.75  | 4,829,427.08  | 4,852,950.00                             | 23,522.92                                |
| 02/13/23   | NA            | NA           | 02/13/25      | Aaa/AA+/NR  | FHLB - Note          | Fed Home Loan Bank          | 5,000,000    | 5.020%          | 5.020% | 5,000,000.00  | 5,000,000.00  | 4,993,850.00                             | (6,150.00)                               |
| 02/07/23   | NA            | NA           | 02/14/25      | Aaa/AA+/AAA | FFCB - Note          | Fed Farm Credit Bank        | 5,000,000    | 1.750%          | 4.500% | 4,737,350.00  | 4,756,212.40  | 4,782,950.00                             | 26,737.60                                |
| 12/30/22   | NA            | NA           | 02/28/25      | Aaa/AA/AAA  | Treasury - Note      | US Treasury                 | 5,000,000    | 2.750%          | 4.317% | 4,839,453.13  | 4,858,126.09  | 4,874,200.00                             | 16,073.91                                |
| 02/07/23   | NA            | NA           | 03/14/25      | Aaa/AA+/NR  | FHLB - Note          | Fed Home Loan Bank          | 5,000,000    | 4.250%          | 4.518% | 4,973,050.00  | 4,974,914.69  | 4,997,900.00                             | 22,985.31                                |

IRVINE RANCH WATER DISTRICT  
INVESTMENT SUMMARY REPORT

03/31/23

| SETTLMT           | Call Schedule    | Initial Call | Maturity Date | Rating      | INVESTMENT TYPE | INSTITUTION / ISSUER        | PAR Amount           | COUPON DISCOUNT | YIELD  | ORIGINAL COST           | CARRY VALUE             | MARKET VALUE <sup>(1)</sup> 3/31/2023 | UNREALIZED <sup>(2)</sup> GAIN/(LOSS) |
|-------------------|------------------|--------------|---------------|-------------|-----------------|-----------------------------|----------------------|-----------------|--------|-------------------------|-------------------------|---------------------------------------|---------------------------------------|
| 12/30/22          | NA               | NA           | 03/15/25      | Aaa/AA/AAA  | Treasury - Note | US Treasury                 | 5,000,000            | 1.750%          | 4.329% | 4,731,250.00            | 4,761,926.18            | 4,779,700.00                          | 17,773.82                             |
| 12/22/22          | NA               | NA           | 04/01/25      | Aaa/AA+/AAA | FHLB - Note     | Fed Home Loan Bank          | 5,000,000            | 4.200%          | 4.160% | 5,004,550.00            | 5,004,002.47            | 5,005,050.00                          | 1,047.53                              |
| 12/08/22          | Quarterly        | 02/12/2023   | 05/12/25      | Aaa/AA+/AAA | FHLMC - Note    | Fed Home Loan Mortgage Corp | 5,000,000            | 3.050%          | 4.427% | 4,843,000.00            | 4,863,200.90            | 4,864,300.00                          | 1,099.10                              |
| 01/11/23          | NA               | NA           | 05/15/25      | Aaa/AA/AAA  | Treasury - Note | US Treasury                 | 5,000,000            | 2.750%          | 4.148% | 4,845,312.50            | 4,859,786.18            | 4,866,000.00                          | 6,213.82                              |
| 12/13/22          | NA               | NA           | 06/13/25      | Aaa/AA+/AAA | FFCB - Note     | Fed Farm Credit Bank        | 5,000,000            | 4.250%          | 4.340% | 4,989,400.00            | 4,990,665.50            | 5,002,750.00                          | 12,084.50                             |
| 12/13/22          | NA               | NA           | 06/13/25      | Aaa/AA+/AAA | FFCB - Note     | Fed Farm Credit Bank        | 5,000,000            | 4.250%          | 4.352% | 4,988,000.00            | 4,989,432.64            | 5,002,750.00                          | 13,317.36                             |
| 12/01/22          | NA               | NA           | 10/15/25      | Aaa/AA/AAA  | Treasury - Note | US Treasury                 | 5,000,000            | 4.250%          | 4.298% | 4,993,359.38            | 4,994,125.36            | 5,035,350.00                          | 41,224.64                             |
| 12/01/22          | Continuous after | 9/12/2023    | 12/12/25      | Aaa/AA+/AAA | FFCB - Note     | Fed Farm Credit Bank        | 5,000,000            | 4.125%          | 4.694% | 4,920,500.00            | 4,929,189.70            | 4,923,250.00                          | (5,939.70)                            |
| SUB-TOTAL         |                  |              |               |             |                 |                             | <u>\$377,112,483</u> |                 |        | <u>\$371,618,624.59</u> | <u>\$373,407,342.91</u> | <u>\$370,686,728.50</u>               | <u>(\$2,720,614.40)</u>               |
| TOTAL INVESTMENTS |                  |              |               |             |                 |                             | <u>\$377,112,483</u> |                 |        | <u>\$371,618,624.59</u> | <u>\$373,407,342.91</u> | <u>\$370,686,728.50</u>               | <u>(\$2,720,614.40)</u>               |
|                   |                  |              |               |             | Petty Cash      |                             |                      |                 |        | 3,400.00                |                         |                                       |                                       |
|                   |                  |              |               |             | Ck Balance      | Bank of America             |                      | ECR             | 1.62%  | 1,503,586.72            |                         |                                       |                                       |
|                   |                  |              |               |             | Ck Balance      | Wells Fargo                 |                      | ECR             | 1.65%  | 0.00                    |                         |                                       |                                       |
|                   |                  |              |               |             |                 |                             |                      |                 |        | <u>\$373,125,611.31</u> |                         |                                       |                                       |

<sup>(1)</sup> 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.

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

<sup>(3)</sup> Real estate rate of return is based on most recent quarter end return

\*S - Step up

This Investment Summary Report is in conformity with the 2023 Investment Policy and provides sufficient liquidity to meet the next six months estimated expenditures.

|  |               |
|--|---------------|
| Outstanding Variable Rate Debt   | \$227,000,000 |
| Net Outstanding Variable Rate Debt (Less \$60 million fixed-payer swaps) | \$167,000,000 |
| Investment Balance:  | \$373,125,611 |
| Investment to Variable Rate Debt Ratio:                                  | 223%          |
| Portfolio - Average Number of Days To Maturity                           | 357           |

|          | Investment Portfolio | Real Estate <sup>(3)</sup> Portfolio | Weighted Avg. Return |
|----------|----------------------|--------------------------------------|----------------------|
| March    | 2.98%                | 13.02%                               | 5.08%                |
| February | 2.71%                | 13.02%                               | 4.85%                |
| Change   | 0.27%                | 0.00%                                | 0.23%                |

IRVINE RANCH WATER DISTRICT  
SUMMARY OF MATURITIES

03/31/23

| DATE      | TOTAL         | %      | LAIF         | Agency Notes | Agency Discount Notes | Municipal Bonds | US Treasury   | Investment Sweep |
|-----------|---------------|--------|--------------|--------------|-----------------------|-----------------|---------------|------------------|
| 3/23      | 22,112,483    | 5.86%  | \$19,000,000 |              |                       |                 |               | 3,112,483        |
| 4/23      | 25,000,000    | 6.63%  |              |              | 5,000,000             |                 | 20,000,000    |                  |
| 5/23      | 15,000,000    | 3.98%  |              | 5,000,000    |                       |                 | 10,000,000    |                  |
| 6/23      | 20,000,000    | 5.30%  |              |              | 5,000,000             |                 | 15,000,000    |                  |
| 7/23      | 20,000,000    | 5.30%  |              |              | 10,000,000            |                 | 10,000,000    |                  |
| 8/23      | 20,000,000    | 5.30%  |              |              |                       |                 | 20,000,000    |                  |
| 9/23      | 15,000,000    | 3.98%  |              |              |                       |                 | 15,000,000    |                  |
| 10/23     | 15,000,000    | 3.98%  |              | 5,000,000    |                       |                 | 10,000,000    |                  |
| 11/23     | 10,000,000    | 2.65%  |              |              |                       |                 | 10,000,000    |                  |
| 12/23     | 10,000,000    | 2.65%  |              | 5,000,000    |                       |                 | 5,000,000     |                  |
| 1/24      | 15,000,000    | 3.98%  |              |              | 5,000,000             |                 | 10,000,000    |                  |
| 2/24      | 10,000,000    | 2.65%  |              |              |                       |                 | 10,000,000    |                  |
| SUB-TOTAL | \$197,112,483 | 52.27% | \$19,000,000 | \$15,000,000 | 25,000,000            |                 | \$135,000,000 | \$3,112,483      |

| 13 Months - 3 YEARS     |               |         |              |               |              |  |               |             |
|-------------------------|---------------|---------|--------------|---------------|--------------|--|---------------|-------------|
| 3/01/2024 - 05/31/2024  | \$30,000,000  | 7.96%   |              | 10,000,000    |              |  | 20,000,000    |             |
| 6/01/2024 - 8/31/2024   | \$35,000,000  | 9.28%   |              | 30,000,000    |              |  | 5,000,000     |             |
| 9/01/2024 - 11/30/2024  | \$35,000,000  | 9.28%   |              | 30,000,000    |              |  | 5,000,000     |             |
| 12/01/2024 - 2/28/2025  | \$35,000,000  | 9.28%   |              | 10,000,000    |              |  | 25,000,000    |             |
| 03/01/2025 - 05/31/2025 | \$25,000,000  | 6.63%   |              | 15,000,000    |              |  | 10,000,000    |             |
| 6/01/2025 - 08/31/2025  | \$10,000,000  | 2.65%   |              | 10,000,000    |              |  |               |             |
| 9/01/2025 - 11/30/2025  | \$5,000,000   | 1.33%   |              |               |              |  | 5,000,000     |             |
| 12/01/2025 - 2/28/2026  | \$5,000,000   | 1.33%   |              | 5,000,000     |              |  |               |             |
| 03/01/2026 +            |               |         |              |               |              |  |               |             |
| SUB-TOTAL               | \$180,000,000 | 47.73%  |              | \$110,000,000 |              |  | \$70,000,000  |             |
| TOTALS                  | \$377,112,483 | 100.00% | \$19,000,000 | \$125,000,000 | \$25,000,000 |  | \$205,000,000 | \$3,112,483 |

|                |       |        |       |        |       |
|----------------|-------|--------|-------|--------|-------|
| % OF PORTFOLIO | 5.04% | 33.15% | 6.63% | 54.36% | 0.83% |
|----------------|-------|--------|-------|--------|-------|



Irvine Ranch Water District  
Summary of Real Estate - Income Producing Investments  
12/31/2022

|  | ACQUISITION<br>DATE | PROPERTY<br>TYPE | OWNERSHIP<br>INTEREST | ORIGINAL<br>COST     | MARKET VALUE<br>6/30/2022 | ANNUALIZED<br>RATE OF RETURN<br>QUARTER ENDED<br>12/31/2022 |
|--|---------------------|------------------|-----------------------|----------------------|---------------------------|---|
| Sycamore Canyon                                  | Dec-92              | Apartments       | Fee Simple            | \$ 43,550,810        | \$ 174,250,000            | 21.22%  |
| Wood Canyon Villas                               | Jun-91              | Apartments       | Limited Partner       | \$ 6,000,000         | \$ 34,194,459             | 8.50%   |
| ITC (230 Commerce)                               | Jul-03              | Office Building  | Fee Simple            | \$ 5,739,845         | \$ 12,240,000             | 10.42%  |
| Waterworks Business Pk.                          | Nov-08              | Research & Dev.  | Fee Simple            | \$ 8,630,577         | \$ 11,832,000             | 6.88%   |
| Sand Canyon Professional Center - Medical Office | Jul-12              | Medical Office   | Fee Simple            | \$ 8,648,594         | \$ 12,138,000             | 7.81%   |
| Sand Canyon Professional Center - General Office | Sep-20              | Office Building  | Fee Simple            | \$ 25,985,968        | \$ 33,915,000             | 4.65%   |
| <b>Total - Income Properties</b>                 |                     |                  |                       | <b>\$ 98,555,794</b> | <b>\$ 278,569,459</b>     | <b>13.02%</b>   |

**IRVINE RANCH WATER DISTRICT INVESTMENT SUMMARY REPORT**  
**INVESTMENT ACTIVITY**  
**Mar-23**

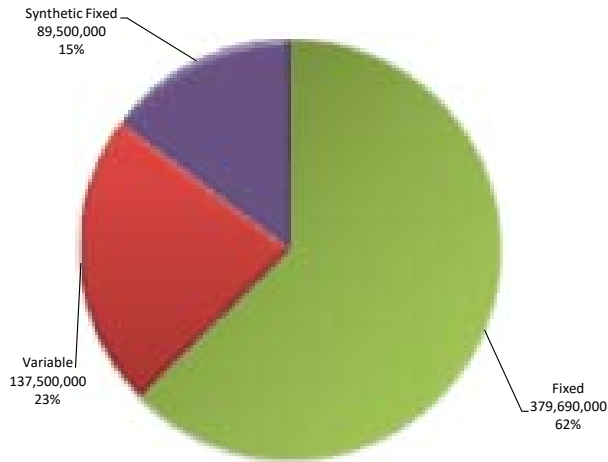
**MATURITIES/SALES/CALLS**

**PURCHASES**

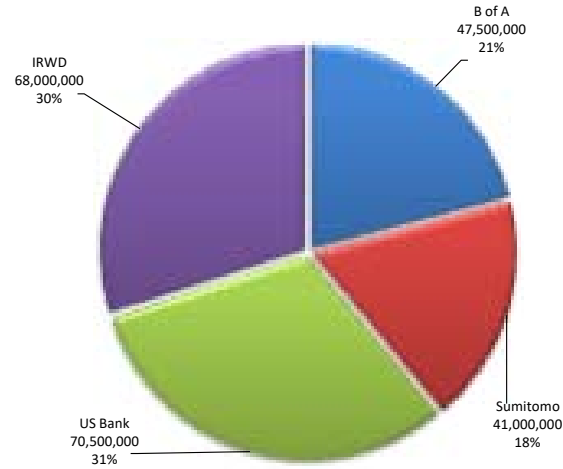
| DATE      | SECURITY TYPE        | PAR          | YIELD | Settlement Date | Maturity Date | SECURITY TYPE        | PAR         | YIELD TO MATURITY |
|-----------|----------------------|--------------|-------|-----------------|---------------|----------------------|-------------|-------------------|
| 3/16/2023 | FHLB - Discount Note | \$5,000,000  | 4.57% | 3/31/2023       | 4/20/2023     | FHLB - Discount Note | \$5,000,000 | 4.57%             |
| 3/31/2023 | Treasury - Note      | \$10,000,000 | 0.15% | 3/31/2023       | 7/19/2023     | FHLB - Discount Note | \$5,000,000 | 4.81%             |
| 3/31/2023 | Treasury - Note      | \$5,000,000  | 0.31% | 3/31/2023       | 8/3/2023      | Treasury - Bill      | \$5,000,000 | 4.71%             |

Exhibit "B"  
**Irvine Ranch Water District**  
**Summary of Fixed and Variable Rate Debt**  
**March 2023**

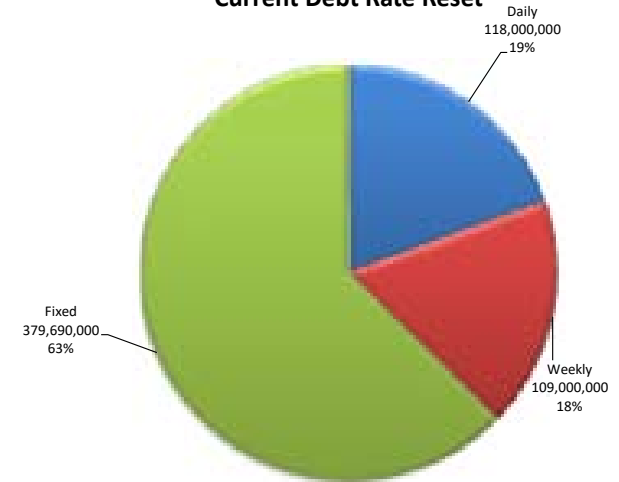
**Current Debt Mix By Type**



**Letters of Credit / Support**



**Current Debt Rate Reset**



**Outstanding Par by Series**

| Series                          | Issue Date | Maturity Date | Remaining Principal  | Percent        | Letter of Credit/Support | Rmkt Agent | Mode     | Reset  |
|---------------------------------|------------|---------------|----------------------|----------------|--------------------------|------------|----------|--------|
| Series 1993                     | 05/19/93   | 04/01/33      | \$23,000,000         | 3.79%          | US Bank                  | BAML       | Variable | Daily  |
| Series 2008-A Refunding         | 04/24/08   | 07/01/35      | \$41,000,000         | 6.76%          | Sumitomo                 | BAML       | Variable | Weekly |
| Series 2011-A-1 Refunding       | 04/15/11   | 10/01/37      | \$40,800,000         | 6.73%          | IRWD                     | Goldman    | Variable | Weekly |
| Series 2011-A-2 Refunding       | 04/15/11   | 10/01/37      | \$27,200,000         | 4.48%          | IRWD                     | Goldman    | Variable | Weekly |
| Series 2009 - A                 | 06/04/09   | 10/01/41      | \$47,500,000         | 7.83%          | US Bank                  | US Bank    | Variable | Daily  |
| Series 2009 - B                 | 06/04/09   | 10/01/41      | \$47,500,000         | 7.83%          | B of A                   | Goldman    | Variable | Daily  |
| 2016 COPS                       | 09/01/16   | 03/01/46      | \$105,710,000        | 17.42%         | N/A                      | N/A        | Fixed    | Fixed  |
| 2010 Build America Taxable Bond | 12/16/10   | 05/01/40      | \$175,000,000        | 28.85%         | N/A                      | N/A        | Fixed    | Fixed  |
| Series 2016                     | 10/12/16   | 02/01/46      | \$98,980,000         | 16.31%         | N/A                      | N/A        | Fixed    | Fixed  |
| <b>Total</b>                    |            |               | <b>\$606,690,000</b> | <b>100.00%</b> |                          |            |          |        |

**IRVINE RANCH WATER DISTRICT  
SUMMARY OF FIXED & VARIABLE RATE DEBT**

March-23

| ITN                                 |          | GENERAL BOND INFORMATION |               |                        |               |                     |                      |   |                              |               |           |          |         |                   |         |                 |            | LETTER OF CREDIT INFORMATION |                |                  |              |  |  |  |  |                  |  | TRUSTEE INFORMATION |  |  |  |  |
|-------------------------------------|----------|--------------------------|---------------|------------------------|---------------|---------------------|----------------------|---|------------------------------|---------------|-----------|----------|---------|-------------------|---------|-----------------|------------|------------------------------|----------------|------------------|--------------|--|--|--|--|------------------|--|---------------------|--|--|--|--|
| Daily                               |          | VARIABLE RATE ISSUES     |               |                        |               |                     |                      |   |                              |               |           |          |         |                   |         |                 |            | Letter of Credit             |                |                  |              |  |  |  |  |                  |  | Rmkt Agent          |  |  |  |  |
| Weekly                              |          | Issue Date               | Maturity Date | Principal Payment Date | Payment Date  | Original Par Amount | Remaining Principal  | Letter of Credit                              | Reimbursement Agreement Date | L/C Exp. Date | MOODY'S   | S&P      | FITCH   | LOC Stated Amount | LOC Fee | Annual LOC Cost | Rmkt Agent | Reset                        | Rmkt Fees      | Annual Cost      | Trustee      |  |  |  |  |                  |  |                     |  |  |  |  |
|                                     |          | 05/19/93                 | 04/01/33      | Apr 1                  | 5th Bus. Day  | \$38,300,000        | \$23,000,000         | US BANK                                       | 05/07/15                     | 05/01/25      | Aa3/VMIG1 | AA-/A-1+ | N/R     | \$23,310,027      | 0.3000% | \$69,930        | BAML       | DAILY                        | 0.10%          | \$23,000         | BANK OF NY   |  |  |  |  |                  |  |                     |  |  |  |  |
|                                     |          | 04/24/08                 | 07/01/35      | Jul 1                  | 5th Bus. Day  | \$60,215,000        | \$41,000,000         | SUMITOMO                                      | 04/01/11                     | 05/28/25      | A1/P-1    | A/A-1    | A/F1    | \$41,606,575      | 0.3150% | \$131,061       | BAML       | WED                          | 0.07%          | \$28,700         | BANK OF NY   |  |  |  |  |                  |  |                     |  |  |  |  |
|                                     |          | 04/15/11                 | 10/01/37      | Oct 1                  | 1st Bus. Day  | \$60,545,000        | \$40,800,000         | N/A   | N/A                          | N/A           | Aa1/VMIG1 | A-1+     | AAA/F1+ | N/A               | N/A     | N/A             | Goldman    | WED                          | 0.13%          | \$51,000         | BANK OF NY   |  |  |  |  |                  |  |                     |  |  |  |  |
|                                     |          | 04/15/11                 | 10/01/37      | Oct 1                  | 1st Bus. Day  | \$40,370,000        | \$27,200,000         | N/A   | N/A                          | N/A           | Aa1/VMIG1 | A-1+     | AAA/F1+ | N/A               | N/A     | N/A             | Goldman    | WED                          | 0.13%          | \$34,000         | BANK OF NY   |  |  |  |  |                  |  |                     |  |  |  |  |
|                                     |          | 06/04/09                 | 10/01/41      | Oct 1                  | 1st Bus. Day  | \$75,000,000        | \$47,500,000         | US BANK                                       | 04/01/11                     | 05/01/25      | Aa2/VMIG1 | AA-/A-1+ | AA/F1+  | \$48,030,959      | 0.3000% | \$144,093       | US Bank    | DAILY                        | 0.07%          | \$33,250         | US BANK      |  |  |  |  |                  |  |                     |  |  |  |  |
|                                     |          | 06/04/09                 | 10/01/41      | Oct 1                  | 1st Bus. Day  | \$75,000,000        | \$47,500,000         | B of A  | 04/01/11                     | 04/21/25      | Aa2/VMIG1 | A/A-1    | A1/F1+  | \$48,030,959      | 0.2800% | \$134,487       | Goldman    | DAILY                        | 0.10%          | \$47,500         | US BANK      |  |  |  |  |                  |  |                     |  |  |  |  |
| <b>\$349,430,000</b>                |          |                          |               |                        |               |                     | <b>\$227,000,000</b> | <b>SUB-TOTAL VARIABLE RATE DEBT</b>           |                              |               |           |          |         |                   |         |                 |            | <b>\$160,978,521</b>         | <b>0.2979%</b> | <b>\$479,570</b> | <b>0.10%</b> |  |  |  |  | <b>\$217,450</b> |  |                     |  |  |  |  |
|                                     |          |                          |               |                        |               |                     |                      |   |                              |               |           |          |         |                   |         |                 |            | (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 | \$105,710,000       | 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 1         | Feb/Aug                | \$103,400,000 | \$98,980,000        | 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   |  |  |  |  |                  |  |                     |  |  |  |  |
| <b>\$395,145,000</b>                |          |                          |               |                        |               |                     | <b>\$379,690,000</b> | <b>SUB-TOTAL FIXED RATE DEBT</b>              |                              |               |           |          |         |                   |         |                 |            |                              |                |                  |              |  |  |  |  |                  |  |                     |  |  |  |  |
| <b>\$744,575,000</b>                |          |                          |               |                        |               |                     | <b>\$606,690,000</b> | <b>TOTAL - FIXED &amp; VARIABLE RATE DEBT</b> |                              |               |           |          |         |                   |         |                 |            |                              |                |                  |              |  |  |  |  |                  |  |                     |  |  |  |  |

| Remarketing Agents |                    |     | GO VS COP'S |                    |     |
|--------------------|--------------------|-----|-------------|--------------------|-----|
| Goldman            | 115,500,000        | 51% | GO:         | 500,980,000        | 83% |
| BAML               | 64,000,000         | 28% | COPS:       | 105,710,000        | 17% |
| US Bank            | 47,500,000         | 21% | Total       | <u>606,690,000</u> |     |
|                    | <u>227,000,000</u> |     |             |                    |     |

| LOC Banks       |                    | Breakdown Between Variable & Fixed Rate Mode |                         |
|-----------------|--------------------|--|-------------------------|
| SUMITOMO        | 41,000,000         | Daily Issues                                 | 118,000,000 19%         |
| BANK OF AMERICA | 47,500,000         | Weekly Issues                                | 41,000,000 7%           |
| US BANK         | 70,500,000         | ITN Issues                                   | 68,000,000 11%          |
|                 | <u>159,000,000</u> | Sub-Total                                    | <u>227,000,000</u>      |
|                 |                    | Fixed Rate Issues                            | \$379,690,000 63%       |
|                 |                    | Sub-Total - Fixed                            | <u>379,690,000</u>      |
|                 |                    | TOTAL DEBT                                   |                         |
|                 |                    | FIXED & VAR.                                 | <u>606,690,000</u> 100% |

SUMMARY OF DEBT RATES  
Mar-23

| 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         | 47,500,000    | 40,800,000               | 27,200,000               | 23,000,000          | 41,000,000            | 47,500,000    |
| LOC Bank Reset     | BOFA          | (SIFMA + 5)<br>Wednesday | (SIFMA + 5)<br>Wednesday | US BANK             | Sumitomo<br>Wednesday | US BANK       |
| 3/1/2023           | 1.30%         | 3.47%                    | 3.47%                    | 1.27%               | 2.62%                 | 1.50%         |
| 3/2/2023           | 1.10%         | 2.85%                    | 2.85%                    | 1.09%               | 1.57%                 | 1.15%         |
| 3/3/2023           | 1.00%         | 2.85%                    | 2.85%                    | 0.99%               | 1.57%                 | 1.00%         |
| 3/4/2023           | 1.00%         | 2.85%                    | 2.85%                    | 0.99%               | 1.57%                 | 1.00%         |
| 3/5/2023           | 1.00%         | 2.85%                    | 2.85%                    | 0.99%               | 1.57%                 | 1.00%         |
| 3/6/2023           | 0.80%         | 2.85%                    | 2.85%                    | 0.92%               | 1.57%                 | 0.90%         |
| 3/7/2023           | 0.70%         | 2.85%                    | 2.85%                    | 0.80%               | 1.57%                 | 0.70%         |
| 3/8/2023           | 0.60%         | 2.85%                    | 2.85%                    | 0.54%               | 1.57%                 | 0.60%         |
| 3/9/2023           | 0.50%         | 2.26%                    | 2.26%                    | 0.55%               | 0.97%                 | 0.50%         |
| 3/10/2023          | 0.60%         | 2.26%                    | 2.26%                    | 0.57%               | 0.97%                 | 0.50%         |
| 3/11/2023          | 0.60%         | 2.26%                    | 2.26%                    | 0.57%               | 0.97%                 | 0.50%         |
| 3/12/2023          | 0.60%         | 2.26%                    | 2.26%                    | 0.57%               | 0.97%                 | 0.50%         |
| 3/13/2023          | 0.53%         | 2.26%                    | 2.26%                    | 0.53%               | 0.97%                 | 0.50%         |
| 3/14/2023          | 0.76%         | 2.26%                    | 2.26%                    | 0.94%               | 0.97%                 | 0.75%         |
| 3/15/2023          | 1.46%         | 2.26%                    | 2.26%                    | 1.42%               | 0.97%                 | 1.50%         |
| 3/16/2023          | 2.60%         | 2.67%                    | 2.67%                    | 1.47%               | 1.67%                 | 2.50%         |
| 3/17/2023          | 2.70%         | 2.67%                    | 2.67%                    | 3.16%               | 1.67%                 | 3.40%         |
| 3/18/2023          | 2.70%         | 2.67%                    | 2.67%                    | 3.16%               | 1.67%                 | 3.40%         |
| 3/19/2023          | 2.70%         | 2.67%                    | 2.67%                    | 3.16%               | 1.67%                 | 3.40%         |
| 3/20/2023          | 3.65%         | 2.67%                    | 2.67%                    | 3.31%               | 1.67%                 | 3.65%         |
| 3/21/2023          | 3.67%         | 2.67%                    | 2.67%                    | 3.70%               | 1.67%                 | 3.65%         |
| 3/22/2023          | 3.70%         | 2.67%                    | 2.67%                    | 3.70%               | 1.67%                 | 3.75%         |
| 3/23/2023          | 3.80%         | 4.40%                    | 4.40%                    | 3.90%               | 3.64%                 | 3.75%         |
| 3/24/2023          | 3.80%         | 4.40%                    | 4.40%                    | 3.91%               | 3.64%                 | 3.75%         |
| 3/25/2023          | 3.80%         | 4.40%                    | 4.40%                    | 3.91%               | 3.64%                 | 3.75%         |
| 3/26/2023          | 3.80%         | 4.40%                    | 4.40%                    | 3.91%               | 3.64%                 | 3.75%         |
| 3/27/2023          | 3.75%         | 4.40%                    | 4.40%                    | 3.78%               | 3.64%                 | 3.75%         |
| 3/28/2023          | 3.75%         | 4.40%                    | 4.40%                    | 3.70%               | 3.64%                 | 3.70%         |
| 3/29/2023          | 3.55%         | 4.40%                    | 4.40%                    | 3.60%               | 3.64%                 | 3.65%         |
| 3/30/2023          | 3.45%         | 4.02%                    | 4.02%                    | 3.52%               | 3.55%                 | 3.55%         |
| 3/31/2023          | 3.30%         | 4.02%                    | 4.02%                    | 3.34%               | 3.55%                 | 3.40%         |
| Avg Interest Rates | 2.17%         | 3.12%                    | 3.12%                    | 2.19%               | 2.09%                 | 2.24%         |
| Rmkt Fee           | 0.10%         | 0.13%                    | 0.13%                    | 0.10%               | 0.07%                 | 0.07%         |
| LOC Fee            | 0.28%         |                          |                          | 0.30%               | 0.32%                 | 0.30%         |
| <b>All-In Rate</b> | <b>2.55%</b>  | <b>3.25%</b>             | <b>3.25%</b>             | <b>2.59%</b>        | <b>2.47%</b>          | <b>2.61%</b>  |
| Par Amount         |               | 88,300,000               | 27,200,000               |                     | 64,000,000            | 47,500,000    |

| Interest Rate Mode  | Percent of Total Variable Rate Debt | Par Outstanding      | Weighted All-In Average Rate | Base Rate Average |
|---|-------------------------------------|----------------------|------------------------------|-------------------|
| Daily   | 51.98%                              | 118,000,000          | 2.58%                        | 2.20%             |
| Weekly  | 48.02%                              | 109,000,000          | 2.95%                        | 2.73%             |
|   | 100.00%                             | <b>\$227,000,000</b> | 2.76%                        | 2.46%             |
| <b>Fixed</b>  |                                     |                      |                              |                   |
| COPS 2016   | 27.84%                              | 105,710,000          | 2.90%                        |                   |
| BABS 2010   | 46.09%                              | 175,000,000          | 4.44%                        | (1)               |
| SERIES 2016   | 26.07%                              | 98,980,000           | 3.32%                        |                   |
|   | 100.00%                             | <b>\$379,690,000</b> | 3.72%                        |                   |
| <b>All-In Debt Rate Including \$60 Million Notional Amount of Swaps</b> |                                     |                      |                              | <b>3.50%</b>      |

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

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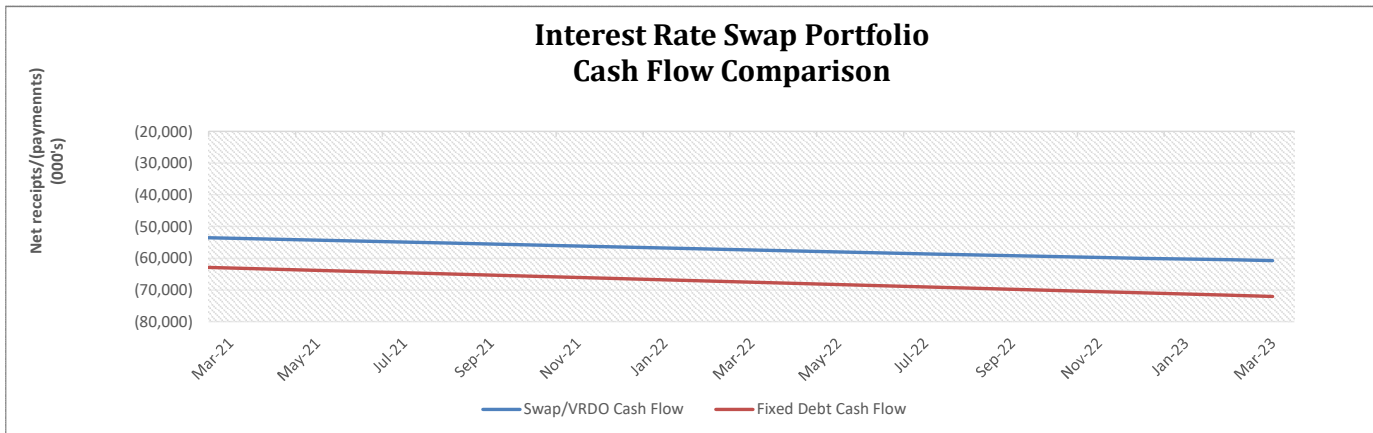
Exhibit "C"  
**Irvine Ranch Water District**  
**Interest Rate Swap Summary**  
**March 2023**

|             | Prior Mo. | Current Mo. | 12-Mo Avg |
|-------------|-----------|-------------|-----------|
| LIBOR Avg % | 4.60%     | 4.77%       | 2.96%     |

| 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)           |                | Current Mark to Market | Notional Difference |
|  |               |                   |               |               |      |            |            |             |               |              | Cumulative Net Accrual |                |                        |                     |
| <b>Fixed Payer Swaps - By Effective Date</b> |               |                   |               |               |      |            |            |             |               |              |                        |                |                        |                     |
| 3/10/2007                                    | 3/10/2029     | 5.9               | ML            | 30,000,000    | FXP  | LIBOR      | 5.687%     | (22,653)    | (34,973)      | (499,443)    | (21,882,007)           |                | 26,374,090             | (3,625,910)         |
| 3/10/2007                                    | 3/10/2029     | 5.9               | CG            | 30,000,000    | FXP  | LIBOR      | 5.687%     | (22,653)    | (34,973)      | (499,443)    | (21,882,007)           |                | 26,376,547             | (3,623,453)         |
| Totals/Weighted Avgs                         |               | 5.9               |               | \$ 60,000,000 |      |            | 5.687%     | \$ (45,306) | \$ (69,946)   | \$ (998,886) | \$ (43,764,013)        |                | \$ 52,750,637          | \$ (7,249,363)      |
| <b>Total Current Year Active Swaps</b>       |               |                   |               | \$ 60,000,000 |      |            |            | \$ (45,306) | \$ (69,946)   | \$ (998,886) | \$ (43,764,013)        |                | \$ 52,750,637          | \$ (7,249,363)      |

| 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 |
|                                      |               |  |               |              |      |            |            |             |               |            |                        |                        |                     |
|                                      |               |  |               | \$ -         |      |            |            | \$ -        | \$ -          | \$ -       | \$ -                   | \$ -                   | \$ -                |

| 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 |
|                                   |               |  |               |               |      |            |            |             |               |              |                        |                        |                     |
|                                   |               |  |               | \$ 60,000,000 |      |            |            | \$ (45,306) | \$ (69,946)   | \$ (998,886) | \$ (43,764,013)        | \$ 52,750,637          | \$ (7,249,363)      |



| Cash Flow Comparison  |              |
|---|--------------|
| Synthetic Fixed vs. Fixed Rate Debt   |              |
| <u>Cash Flow to Date</u>  |              |
| Synthetic Fixed =   | \$60,751,677 |
| Fixed Rate =  | \$72,073,657 |
| <u>Assumptions:</u>   |              |
| - 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 MARCH 2023**

| CHECK OR ELECTRONIC # | PAYMENT DATE | SUPPLIERS                               | PAYMENT AMOUNT | PAYMENT METHOD                  | STATUS     |
|-----------------------|--------------|---|----------------|---------------------------------|------------|
| 434259                | 2-Mar-23     | A&Y ASPHALT CONTRACTORS, INC.           | 57,663.20      | IRWD Wells Fargo Check No Print | Reconciled |
| 434260                | 2-Mar-23     | AAF INTERNATIONAL                       | 1,445.63       | IRWD Wells Fargo Check No Print | Reconciled |
| 434261                | 2-Mar-23     | ABC ICE, INC                            | 285.50         | IRWD Wells Fargo Check No Print | Reconciled |
| 434262                | 2-Mar-23     | AFSHAR, HEDYEH                          | 325.56         | IRWD Wells Fargo Check No Print | Reconciled |
| 434263                | 2-Mar-23     | AGILENT TECHNOLOGIES, INC.              | 8,111.09       | IRWD Wells Fargo Check No Print | Reconciled |
| 434264                | 2-Mar-23     | AIR TECHNOLOGY LABORATORIES             | 289.00         | IRWD Wells Fargo Check No Print | Reconciled |
| 434265                | 2-Mar-23     | AIRGAS, INC.                            | 481.14         | IRWD Wells Fargo Check No Print | Reconciled |
| 434266                | 2-Mar-23     | ALLIED ELECTRONICS INC                  | 2,555.84       | IRWD Wells Fargo Check No Print | Reconciled |
| 434267                | 2-Mar-23     | AMAZON CAPITAL SERVICES, INC.           | 8,008.86       | IRWD Wells Fargo Check No Print | Reconciled |
| 434268                | 2-Mar-23     | ANDAYA, JUSTINE                         | 302.29         | IRWD Wells Fargo Check No Print | Negotiable |
| 434269                | 2-Mar-23     | ANTHONY N. LARSEN                       | 550.00         | IRWD Wells Fargo Check No Print | Reconciled |
| 434270                | 2-Mar-23     | ARIZONA PIPELINE CO.                    | 1,713.65       | IRWD Wells Fargo Check No Print | Reconciled |
| 434271                | 2-Mar-23     | ARMORCAST PRODUCTS COMPANY              | 42,119.01      | IRWD Wells Fargo Check No Print | Reconciled |
| 434272                | 2-Mar-23     | ARTEMIS DNA LLC                         | 31.71          | IRWD Wells Fargo Check No Print | Reconciled |
| 434273                | 2-Mar-23     | ASCO POWER SERVICES, INC                | 3,102.46       | IRWD Wells Fargo Check No Print | Reconciled |
| 434274                | 2-Mar-23     | ASSOCIATED READY MIXED CONCRETE, INC    | 1,275.47       | IRWD Wells Fargo Check No Print | Reconciled |
| 434275                | 2-Mar-23     | AT&T CORP                               | 204.14         | IRWD Wells Fargo Check No Print | Reconciled |
| 434276                | 2-Mar-23     | AT&T CORP                               | 62.67          | IRWD Wells Fargo Check No Print | Reconciled |
| 434277                | 2-Mar-23     | ATI RESTORATION, LLC                    | 16,416.00      | IRWD Wells Fargo Check No Print | Reconciled |
| 434278                | 2-Mar-23     | AUTOZONE PARTS, INC.                    | 447.51         | IRWD Wells Fargo Check No Print | Reconciled |
| 434279                | 2-Mar-23     | BAO, LI                                 | 25.19          | IRWD Wells Fargo Check No Print | Reconciled |
| 434280                | 2-Mar-23     | BC WIRE ROPE & RIGGING                  | 361.95         | IRWD Wells Fargo Check No Print | Reconciled |
| 434281                | 2-Mar-23     | BIGWIG MONSTER, LLC                     | 12,000.00      | IRWD Wells Fargo Check No Print | Reconciled |
| 434282                | 2-Mar-23     | BIOTAGE LLC                             | 600.58         | IRWD Wells Fargo Check No Print | Reconciled |
| 434283                | 2-Mar-23     | BLAIRS TOWING INC                       | 435.00         | IRWD Wells Fargo Check No Print | Reconciled |
| 434284                | 2-Mar-23     | BROWN AND CALDWELL                      | 4,978.15       | IRWD Wells Fargo Check No Print | Reconciled |
| 434285                | 2-Mar-23     | CALIFORNIA WATER EFFICIENCY PARTNERSHIP | 2,500.00       | IRWD Wells Fargo Check No Print | Reconciled |
| 434286                | 2-Mar-23     | CAMBRIA APARTMENTS                      | 2,487.05       | IRWD Wells Fargo Check No Print | Reconciled |
| 434287                | 2-Mar-23     | CDW GOVERNMENT LLC                      | 264.13         | IRWD Wells Fargo Check No Print | Reconciled |
| 434288                | 2-Mar-23     | CHANCE, JESSICA                         | 38.24          | IRWD Wells Fargo Check No Print | Reconciled |
| 434289                | 2-Mar-23     | CHEM SERVICE INC.                       | 233.80         | IRWD Wells Fargo Check No Print | Reconciled |
| 434290                | 2-Mar-23     | CHEM TECH INTERNATIONAL INC             | 21,324.55      | IRWD Wells Fargo Check No Print | Reconciled |
| 434291                | 2-Mar-23     | CITY OF NEWPORT BEACH                   | 38.18          | IRWD Wells Fargo Check No Print | Reconciled |
| 434292                | 2-Mar-23     | CITY OF SANTA ANA                       | 237,825.92     | IRWD Wells Fargo Check No Print | Reconciled |
| 434293                | 2-Mar-23     | CITY OF TUSTIN                          | 3,404.00       | IRWD Wells Fargo Check No Print | Reconciled |
| 434294                | 2-Mar-23     | CLA-VAL COMPANY                         | 21.55          | IRWD Wells Fargo Check No Print | Reconciled |
| 434295                | 2-Mar-23     | CONSTELLATION NEWENERGY, INC.           | 29,520.33      | IRWD Wells Fargo Check No Print | Reconciled |
| 434296                | 2-Mar-23     | CORTES, EVELYN                          | 20.78          | IRWD Wells Fargo Check No Print | Reconciled |
| 434297                | 2-Mar-23     | COX COMMUNICATIONS, INC.                | 3,465.69       | IRWD Wells Fargo Check No Print | Reconciled |
| 434298                | 2-Mar-23     | CURATIVE I.T. LLC                       | 185.41         | IRWD Wells Fargo Check No Print | Reconciled |
| 434299                | 2-Mar-23     | DARTMOUTH COURT APTS                    | 363.42         | IRWD Wells Fargo Check No Print | Reconciled |
| 434300                | 2-Mar-23     | DCS MANAGEMENT LLC                      | 84.34          | IRWD Wells Fargo Check No Print | Reconciled |
| 434301                | 2-Mar-23     | DILYTICS INC                            | 5,040.00       | IRWD Wells Fargo Check No Print | Reconciled |
| 434302                | 2-Mar-23     | DIRECTV INC                             | 152.99         | IRWD Wells Fargo Check No Print | Reconciled |
| 434303                | 2-Mar-23     | DOBLE, DANIEL                           | 287.16         | IRWD Wells Fargo Check No Print | Reconciled |
| 434304                | 2-Mar-23     | DUDEK                                   | 662.50         | IRWD Wells Fargo Check No Print | Reconciled |
| 434305                | 2-Mar-23     | EAST ORANGE COUNTY WATER DISTRICT       | 2,052.66       | IRWD Wells Fargo Check No Print | Reconciled |
| 434306                | 2-Mar-23     | ENVIRONMENTAL EXPRESS INC               | 1,591.68       | IRWD Wells Fargo Check No Print | Reconciled |
| 434307                | 2-Mar-23     | FARRELL & ASSOCIATES                    | 109.23         | IRWD Wells Fargo Check No Print | Reconciled |
| 434308                | 2-Mar-23     | FEDEX                                   | 1,094.50       | IRWD Wells Fargo Check No Print | Reconciled |
| 434309                | 2-Mar-23     | FEHR & PEERS                            | 8,370.00       | IRWD Wells Fargo Check No Print | Reconciled |
| 434310                | 2-Mar-23     | FFP, LLC                                | 730.55         | IRWD Wells Fargo Check No Print | Reconciled |
| 434311                | 2-Mar-23     | FIRST CHOICE SERVICES                   | 3,109.37       | IRWD Wells Fargo Check No Print | Reconciled |
| 434312                | 2-Mar-23     | FISHER SCIENTIFIC COMPANY LLC           | 1,257.03       | IRWD Wells Fargo Check No Print | Reconciled |
| 434313                | 2-Mar-23     | FRONTIER CALIFORNIA INC.                | 404.50         | IRWD Wells Fargo Check No Print | Reconciled |
| 434314                | 2-Mar-23     | FULLER TRUCK ACCESSORIES                | 3,317.62       | IRWD Wells Fargo Check No Print | Reconciled |
| 434315                | 2-Mar-23     | GALLADE CHEMICAL INC                    | 2,861.84       | IRWD Wells Fargo Check No Print | Reconciled |
| 434316                | 2-Mar-23     | GEI CONSULTANTS INC                     | 9,138.00       | IRWD Wells Fargo Check No Print | Reconciled |
| 434317                | 2-Mar-23     | GHD INC.                                | 18,651.70      | IRWD Wells Fargo Check No Print | Reconciled |
| 434318                | 2-Mar-23     | GOLDEN REALTY                           | 16.41          | IRWD Wells Fargo Check No Print | Reconciled |
| 434319                | 2-Mar-23     | GRAINGER                                | 4,625.52       | IRWD Wells Fargo Check No Print | Reconciled |
| 434320                | 2-Mar-23     | GRAVITEC SYSTEMS, INC                   | 2,533.87       | IRWD Wells Fargo Check No Print | Reconciled |
| 434321                | 2-Mar-23     | GRAYBAR ELECTRIC COMPANY                | 346.93         | IRWD Wells Fargo Check No Print | Reconciled |
| 434322                | 2-Mar-23     | HACH COMPANY                            | 25,265.59      | IRWD Wells Fargo Check No Print | Reconciled |
| 434323                | 2-Mar-23     | HDR ENGINEERING INC                     | 21,997.50      | IRWD Wells Fargo Check No Print | Reconciled |
| 434324                | 2-Mar-23     | HELPMATES STAFFING SERVICES LLC         | 11,633.19      | IRWD Wells Fargo Check No Print | Reconciled |
| 434325                | 2-Mar-23     | HI-LINE INC                             | 834.10         | IRWD Wells Fargo Check No Print | Reconciled |
| 434326                | 2-Mar-23     | HOME DEPOT USA INC                      | 356.63         | IRWD Wells Fargo Check No Print | Reconciled |
| 434327                | 2-Mar-23     | HOME DEPOT USA INC                      | 106.22         | IRWD Wells Fargo Check No Print | Reconciled |
| 434328                | 2-Mar-23     | HU, DONGHUI                             | 39.52          | IRWD Wells Fargo Check No Print | Reconciled |
| 434329                | 2-Mar-23     | INDUSTRIAL METAL SUPPLY CO              | 384.67         | IRWD Wells Fargo Check No Print | Reconciled |

**IRVINE RANCH WATER DISTRICT  
AP DISBURSEMENTS AND VOIDS FOR MARCH 2023**

| <b>CHECK OR<br/>ELECTRONIC #</b> | <b>PAYMENT<br/>DATE</b> | <b>SUPPLIERS</b>                             | <b>PAYMENT<br/>AMOUNT</b> | <b>PAYMENT METHOD</b>           | <b>STATUS</b> |
|----------------------------------|-------------------------|--|---------------------------|---------------------------------|---------------|
| 434330                           | 2-Mar-23                | IRVINE PACIFIC                               | 301.12                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434331                           | 2-Mar-23                | JML RHAPSODY LLC                             | 210.17                    | IRWD Wells Fargo Check No Print | Negotiable    |
| 434332                           | 2-Mar-23                | JOOYAN, CATHERINE                            | 34.28                     | IRWD Wells Fargo Check No Print | Reconciled    |
| 434333                           | 2-Mar-23                | KHODAVERDIAN, ARIN                           | 108.06                    | IRWD Wells Fargo Check No Print | Negotiable    |
| 434334                           | 2-Mar-23                | LANDCARE HOLDINGS, INC.                      | 47,399.80                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434335                           | 2-Mar-23                | LEE & RO, INC.                               | 24,443.92                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434336                           | 2-Mar-23                | LENNAR                                       | 687.25                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434337                           | 2-Mar-23                | LENNAR HOMES OF CALIFORNIA, INC.             | 42.90                     | IRWD Wells Fargo Check No Print | Reconciled    |
| 434338                           | 2-Mar-23                | LIEBERT CASSIDY WHITMORE                     | 3,625.50                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434339                           | 2-Mar-23                | LILLESTRAND LEADERSHIP CONSULTING, INC.      | 9,545.00                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434340                           | 2-Mar-23                | LIM, PATRICIA                                | 37.16                     | IRWD Wells Fargo Check No Print | Reconciled    |
| 434341                           | 2-Mar-23                | LINDE GAS & EQUIPMENT INC.                   | 3,031.44                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434342                           | 2-Mar-23                | LOZANO SMITH, LLP                            | 1,639.75                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434343                           | 2-Mar-23                | LSA ASSOCIATES INC                           | 9,292.69                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434344                           | 2-Mar-23                | MADDOX ELECTRIC INC.                         | 15,560.00                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434345                           | 2-Mar-23                | MATHEWS, VICKI                               | 25.83                     | IRWD Wells Fargo Check No Print | Reconciled    |
| 434346                           | 2-Mar-23                | MISSION COMMUNICATIONS, LLC                  | 581.40                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434347                           | 2-Mar-23                | MJ HARRIS CONSTRUCTION SERVICES, LLC         | 7,359.54                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434348                           | 2-Mar-23                | NATIONAL OILWELL VARCO, L.P.                 | 26,113.21                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434349                           | 2-Mar-23                | NATURES IMAGE INC                            | 6,813.00                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434350                           | 2-Mar-23                | NEWPORT NORTH APTS                           | 23.80                     | IRWD Wells Fargo Check No Print | Reconciled    |
| 434351                           | 2-Mar-23                | NINYO & MOORE                                | 10,892.50                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434352                           | 2-Mar-23                | NORIMA CONSULTING US                         | 14,800.00                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434353                           | 2-Mar-23                | NORTHWOOD PLACE APTS                         | 18.98                     | IRWD Wells Fargo Check No Print | Reconciled    |
| 434354                           | 2-Mar-23                | ONESOURCE DISTRIBUTORS LLC                   | 214.17                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434355                           | 2-Mar-23                | OPEN DOOR LAB INC                            | 75.03                     | IRWD Wells Fargo Check No Print | Reconciled    |
| 434356                           | 2-Mar-23                | ORANGE COUNTY FIRE AUTHORITY                 | 4,209.00                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434357                           | 2-Mar-23                | PACIFIC HYDROTECH CORPORATION                | 1,215.98                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434358                           | 2-Mar-23                | PACIFIC HYDROTECH CORPORATION                | 58,171.35                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434359                           | 2-Mar-23                | PACIFIC HYDROTECH CORPORATION                | 3,061.65                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434360                           | 2-Mar-23                | PACIFIC RIDGE MAINTENANCE (PACR)             | 12,468.00                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434361                           | 2-Mar-23                | PACIFIC RIDGE P301 GUARD HOUSE               | 4.10                      | IRWD Wells Fargo Check No Print | Reconciled    |
| 434362                           | 2-Mar-23                | PACIFIC STAR CHEMICAL, LLC                   | 7,679.25                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434363                           | 2-Mar-23                | PARTNERS IN CONTROL, INC.                    | 17,225.54                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434364                           | 2-Mar-23                | PAYNE & FEARS LLP                            | 4,953.00                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434365                           | 2-Mar-23                | PETRUSSE-NORRIS PAINTING, INC.               | 2,440.20                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434366                           | 2-Mar-23                | PLANETBIDS, INC.                             | 9,415.49                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434367                           | 2-Mar-23                | PLUMBERS DEPOT INC.                          | 33,628.01                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434368                           | 2-Mar-23                | PROJECT PARTNERS LLC                         | 5,600.00                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434369                           | 2-Mar-23                | PROMENADE AT LOS OLIVOS II                   | 256.08                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434370                           | 2-Mar-23                | PROTULYAK, OLESSYA                           | 21.87                     | IRWD Wells Fargo Check No Print | Negotiable    |
| 434371                           | 2-Mar-23                | PRUDENTIAL OVERALL SUPPLY                    | 10,203.28                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434372                           | 2-Mar-23                | PULTE GROUP                                  | 2,430.58                  | IRWD Wells Fargo Check No Print | Negotiable    |
| 434373                           | 2-Mar-23                | R.F. MACDONALD CO.                           | 991.73                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434374                           | 2-Mar-23                | RANCHO MARIPOSA APTS                         | 46.70                     | IRWD Wells Fargo Check No Print | Reconciled    |
| 434375                           | 2-Mar-23                | RED WING SHOE STORE                          | 1,047.35                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434376                           | 2-Mar-23                | SAN CARLO APARTMENTS                         | 231.96                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434377                           | 2-Mar-23                | SAYDAHMIAN, SASAN                            | 36.16                     | IRWD Wells Fargo Check No Print | Reconciled    |
| 434378                           | 2-Mar-23                | SEAL ANALYTICAL INC                          | 1,309.60                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434379                           | 2-Mar-23                | SHAMROCK SUPPLY CO INC                       | 420.52                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434380                           | 2-Mar-23                | SJOHOIM, FREDRICK                            | 129.89                    | IRWD Wells Fargo Check No Print | Negotiable    |
| 434381                           | 2-Mar-23                | SMOG TIME                                    | 65.00                     | IRWD Wells Fargo Check No Print | Reconciled    |
| 434382                           | 2-Mar-23                | SOUTHERN CALIFORNIA EDISON COMPANY           | 262,028.83                | IRWD Wells Fargo Check No Print | Reconciled    |
| 434383                           | 2-Mar-23                | SPARKLETTS                                   | 217.89                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434384                           | 2-Mar-23                | STANFORD COURT APARTMENTS                    | 748.15                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434385                           | 2-Mar-23                | SULZER ELECTRO-MECHANICAL SERVICES (US) INC. | 375.44                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434386                           | 2-Mar-23                | SUZANNA CHOI                                 | 5,000.00                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434387                           | 2-Mar-23                | SYNAGRO-WWT, INC.                            | 159,292.04                | IRWD Wells Fargo Check No Print | Reconciled    |
| 434388                           | 2-Mar-23                | TANKVISIONS, INC                             | 30.00                     | IRWD Wells Fargo Check No Print | Reconciled    |
| 434389                           | 2-Mar-23                | TERRAWORKS STUDIO                            | 450.00                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434390                           | 2-Mar-23                | THE IRVINE COMPANY LLC                       | 483.15                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434391                           | 2-Mar-23                | TIC-IHC VENTURE LLC                          | 338.18                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434392                           | 2-Mar-23                | TIC-IPG-COMMON                               | 184.97                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434393                           | 2-Mar-23                | TIC-OFFICE PROPERTIES                        | 257.38                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434394                           | 2-Mar-23                | TIC-RETAIL PROPERTIES                        | 1,635.60                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434395                           | 2-Mar-23                | TIC-SPECTRUM OFFICE                          | 195.92                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434396                           | 2-Mar-23                | TIC-TECHNOLOGY                               | 77.22                     | IRWD Wells Fargo Check No Print | Reconciled    |
| 434397                           | 2-Mar-23                | TIEN, TAM                                    | 33.48                     | IRWD Wells Fargo Check No Print | Reconciled    |
| 434398                           | 2-Mar-23                | TITUS WASTEWATER SOLUTIONS, INC.             | 11,974.09                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434399                           | 2-Mar-23                | TK ELEVATOR CORPORATION                      | 226.02                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434400                           | 2-Mar-23                | TNEMEC COMPANY INC                           | 711.73                    | IRWD Wells Fargo Check No Print | Reconciled    |

**IRVINE RANCH WATER DISTRICT  
AP DISBURSEMENTS AND VOIDS FOR MARCH 2023**

| <b>CHECK OR<br/>ELECTRONIC #</b> | <b>PAYMENT<br/>DATE</b> | <b>SUPPLIERS</b>   | <b>PAYMENT<br/>AMOUNT</b> | <b>PAYMENT METHOD</b>           | <b>STATUS</b> |
|----------------------------------|-------------------------|--|---------------------------|---------------------------------|---------------|
| 434401                           | 2-Mar-23                | TOLL BROS., INC.   | 128.60                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434402                           | 2-Mar-23                | TRAYNOR, THOMAS  | 2,350.46                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434403                           | 2-Mar-23                | TRI COUNTY PUMP COMPANY                                  | 48,135.16                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434404                           | 2-Mar-23                | TRIPAC MARKETING INC                                     | 1,734.81                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434405                           | 2-Mar-23                | ULINE INC  | 3,080.05                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434406                           | 2-Mar-23                | UNITED PARCEL SERVICE INC                                | 30.00                     | IRWD Wells Fargo Check No Print | Reconciled    |
| 434407                           | 2-Mar-23                | URBAN ECOLOGY STUDIO INC.                                | 450.00                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434408                           | 2-Mar-23                | US BANK NAT'L ASSOCIATION NORTH DAKOTA                   | 82,976.49                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434409                           | 2-Mar-23                | USA BLUEBOOK   | 502.12                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434410                           | 2-Mar-23                | VERIZON WIRELESS SERVICES LLC                            | 15,480.66                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434411                           | 2-Mar-23                | VILLA SIENA APTS   | 160.82                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434412                           | 2-Mar-23                | VULCAN MATERIALS COMPANY                                 | 2,162.48                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434413                           | 2-Mar-23                | VWR INTERNATIONAL, LLC                                   | 1,206.33                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434414                           | 2-Mar-23                | WANG, YIRAN  | 24.23                     | IRWD Wells Fargo Check No Print | Negotiable    |
| 434415                           | 2-Mar-23                | WASTE MANAGEMENT COLLECTIONS AND RECYCLING, INC.         | 3,662.85                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434416                           | 2-Mar-23                | WAXIE'S ENTERPRISES, INC                                 | 1,696.39                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434417                           | 2-Mar-23                | WELLINGTON LABORATORIES LLC                              | 2,075.00                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434418                           | 2-Mar-23                | WOODBIDGE WILLOWS APARTMENTS                             | 697.38                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434419                           | 2-Mar-23                | WOODBURY PLACE APTS                                      | 530.26                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434420                           | 2-Mar-23                | YU, LIN  | 39.88                     | IRWD Wells Fargo Check No Print | Reconciled    |
| 434421                           | 2-Mar-23                | ZEBRON CONTRACTING INC                                   | 38,880.00                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434422                           | 2-Mar-23                | ARAG NORTH AMERICA, INC.                                 | 552.75                    | IRWD Wells Fargo Check          | Reconciled    |
| 434423                           | 2-Mar-23                | Burk, Rachael  | 180.00                    | IRWD Wells Fargo Check          | Reconciled    |
| 434424                           | 2-Mar-23                | Chaves, Romuel-Dave E (RD)                               | 13.10                     | IRWD Wells Fargo Check          | Negotiable    |
| 434426                           | 2-Mar-23                | Compton, Christine A                                     | 40.00                     | IRWD Wells Fargo Check          | Reconciled    |
| 434427                           | 2-Mar-23                | Drake, Danielle  | 55.00                     | IRWD Wells Fargo Check          | Reconciled    |
| 434428                           | 2-Mar-23                | HARTFORD LIFE AND ACCIDENT INSURANCE COMPANY             | 50.88                     | IRWD Wells Fargo Check          | Reconciled    |
| 434429                           | 2-Mar-23                | INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS LOCAL 47 | 5,571.91                  | IRWD Wells Fargo Check          | Reconciled    |
| 434430                           | 2-Mar-23                | IRWD-PETTY CASH CUSTODIAN                                | 877.17                    | IRWD Wells Fargo Check          | Reconciled    |
| 434431                           | 2-Mar-23                | Moeder, Jacob J (Jacob)                                  | 23.58                     | IRWD Wells Fargo Check          | Reconciled    |
| 434432                           | 2-Mar-23                | Nash, Joel   | 64.21                     | IRWD Wells Fargo Check          | Reconciled    |
| 434433                           | 2-Mar-23                | Nguyen, Claire   | 13.10                     | IRWD Wells Fargo Check          | Reconciled    |
| 434434                           | 2-Mar-23                | PERS LONG TERM CARE                                      | 716.23                    | IRWD Wells Fargo Check          | Reconciled    |
| 434435                           | 2-Mar-23                | Jacobson, Robert C (Rob)                                 | 250.00                    | IRWD Wells Fargo Check          | Reconciled    |
| 434436                           | 6-Mar-23                | SOUTHERN CALIFORNIA EDISON COMPANY                       | 11,823.49                 | IRWD Wells Fargo Check          | Reconciled    |
| 434437                           | 7-Mar-23                | KERN COUNTY WATER AGENCY                                 | 7,500.00                  | IRWD Wells Fargo Check          | Reconciled    |
| 434438                           | 9-Mar-23                | 3SE  | 2,397.50                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434439                           | 9-Mar-23                | 8X8 INC  | 10,803.27                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434440                           | 9-Mar-23                | A&Y ASPHALT CONTRACTORS, INC.                            | 3,100.00                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434441                           | 9-Mar-23                | ABC ICE, INC   | 222.40                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434442                           | 9-Mar-23                | ABM INDUSTRY GROUPS, LLC                                 | 73,548.27                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434443                           | 9-Mar-23                | ACCUSTANDARD INC   | 60.35                     | IRWD Wells Fargo Check No Print | Reconciled    |
| 434444                           | 9-Mar-23                | AGILENT TECHNOLOGIES, INC.                               | 368.02                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434445                           | 9-Mar-23                | AIR TECHNOLOGY LABORATORIES                              | 492.00                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434446                           | 9-Mar-23                | AIRGAS, INC.   | 1,588.03                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434447                           | 9-Mar-23                | ALLIED ELECTRONICS INC                                   | 2,555.83                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434448                           | 9-Mar-23                | AMAYA SOLUTIONS INC.                                     | 7,729.99                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434449                           | 9-Mar-23                | AMAZON CAPITAL SERVICES, INC.                            | 1,654.89                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434450                           | 9-Mar-23                | APCO GRAPHICS INC  | 293.09                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434451                           | 9-Mar-23                | AT&T CORP  | 4,091.70                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434452                           | 9-Mar-23                | AT&T CORP  | 87.97                     | IRWD Wells Fargo Check No Print | Reconciled    |
| 434453                           | 9-Mar-23                | ATHENS SERVICES  | 13,076.36                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434454                           | 9-Mar-23                | AUTOZONE PARTS, INC.                                     | 703.51                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434456                           | 9-Mar-23                | BELL, JUSTIN   | 33.59                     | IRWD Wells Fargo Check No Print | Reconciled    |
| 434457                           | 9-Mar-23                | BEST DRILLING AND PUMP, INC.                             | 52,250.00                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434458                           | 9-Mar-23                | BIOTAGE LLC  | 1,903.49                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434459                           | 9-Mar-23                | BLOOMBERG FINANCE LP                                     | 13,605.00                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434460                           | 9-Mar-23                | BRUCE HADLEY NEWELL                                      | 2,500.00                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434461                           | 9-Mar-23                | BURLINGTON SAFETY LABORATORY OF CALIFORNIA INC           | 1,554.60                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434462                           | 9-Mar-23                | BURNHAM BENEFITS INSURANCE SERVICES, LLC                 | 5,833.33                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434463                           | 9-Mar-23                | C WELLS PIPELINE MATERIALS INC                           | 15,039.47                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434464                           | 9-Mar-23                | CAL MICROTURBINE, INC.                                   | 113,347.92                | IRWD Wells Fargo Check No Print | Reconciled    |
| 434465                           | 9-Mar-23                | CANON SOLUTIONS AMERICA, INC.                            | 16.85                     | IRWD Wells Fargo Check No Print | Reconciled    |
| 434466                           | 9-Mar-23                | CANON SOLUTIONS AMERICA, INC.                            | 1,426.22                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434467                           | 9-Mar-23                | CHAIREL CUSTOM HAY, INC.                                 | 5,882.32                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434468                           | 9-Mar-23                | CHARLES P CROWLEY COMPANY INC                            | 2,275.70                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434469                           | 9-Mar-23                | CHEM TECH INTERNATIONAL INC                              | 5,185.20                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434470                           | 9-Mar-23                | CHO DESIGN ASSOCIATES, INC                               | 6,700.00                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434471                           | 9-Mar-23                | CIMARRON ENERGY, INC                                     | 1,500.00                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434472                           | 9-Mar-23                | CITY OF ORANGE   | 232.11                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434473                           | 9-Mar-23                | CLEAN ENERGY   | 9,290.80                  | IRWD Wells Fargo Check No Print | Reconciled    |

**IRVINE RANCH WATER DISTRICT  
AP DISBURSEMENTS AND VOIDS FOR MARCH 2023**

| <b>CHECK OR<br/>ELECTRONIC #</b> | <b>PAYMENT<br/>DATE</b> | <b>SUPPLIERS</b>                          | <b>PAYMENT<br/>AMOUNT</b> | <b>PAYMENT METHOD</b>           | <b>STATUS</b> |
|----------------------------------|-------------------------|---|---------------------------|---------------------------------|---------------|
| 434474                           | 9-Mar-23                | COAST PLUMBING HEATING AND AIR, INC       | 300.00                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434475                           | 9-Mar-23                | CONSTELLATION NEWENERGY, INC.             | 198,131.37                | IRWD Wells Fargo Check No Print | Reconciled    |
| 434476                           | 9-Mar-23                | CORELOGIC INC                             | 90.18                     | IRWD Wells Fargo Check No Print | Reconciled    |
| 434477                           | 9-Mar-23                | COX COMMUNICATIONS, INC.                  | 284.07                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434478                           | 9-Mar-23                | DCS MANAGEMENT LLC                        | 178.62                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434479                           | 9-Mar-23                | DELL MARKETING LP                         | 162.35                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434480                           | 9-Mar-23                | DENALI WATER SOLUTIONS LLC                | 14,426.37                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434481                           | 9-Mar-23                | DISCOVERY SCIENCE CENTER OF ORANGE COUNTY | 9,064.80                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434482                           | 9-Mar-23                | DON WILSON BUILDERS                       | 30.22                     | IRWD Wells Fargo Check No Print | Reconciled    |
| 434483                           | 9-Mar-23                | DOWNSTREAM SERVICES INC                   | 164.76                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434484                           | 9-Mar-23                | DUDLEY RIDGE WATER DISTRICT               | 204,363.48                | IRWD Wells Fargo Check No Print | Reconciled    |
| 434485                           | 9-Mar-23                | E.J. MEYER COMPANY                        | 31,630.23                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434486                           | 9-Mar-23                | ELITE AUTOMOTIVE SERVICE, LLC             | 222.09                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434487                           | 9-Mar-23                | ELITE EQUIPMENT, INC.                     | 570.75                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434488                           | 9-Mar-23                | ENDRESS AND HAUSER INC                    | 1,570.11                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434489                           | 9-Mar-23                | ENTERPRISE INFORMATION SYSTEMS, INC.      | 19,400.00                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434490                           | 9-Mar-23                | ENVIRONMENTAL EQUIPMENT SUPPLY            | 665.25                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434491                           | 9-Mar-23                | ESTANCIA APTS                             | 186.41                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434492                           | 9-Mar-23                | EUROFINS EATON ANALYTICAL, INC.           | 1,108.75                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434493                           | 9-Mar-23                | EXECUTIVE LIGHTING & ELECTRIC             | 11,813.18                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434494                           | 9-Mar-23                | FASTBLUE COMMUNICATIONS INC.              | 1,988.72                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434495                           | 9-Mar-23                | FIRE EXTINGUISHING SAFETY & SERVICE       | 822.81                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434496                           | 9-Mar-23                | FISHER SCIENTIFIC COMPANY LLC             | 5,691.62                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434497                           | 9-Mar-23                | FORTRA, LLC                               | 9,340.39                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434498                           | 9-Mar-23                | FRAPPIA, LINDA                            | 603.46                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434499                           | 9-Mar-23                | GALLAGHER BENEFIT SERVICES, INC.          | 7,889.17                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434500                           | 9-Mar-23                | GEA MECHANICAL EQUIPMENT US, INC.         | 126,442.09                | IRWD Wells Fargo Check No Print | Reconciled    |
| 434501                           | 9-Mar-23                | GHD INC.                                  | 6,091.00                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434502                           | 9-Mar-23                | GLADWELL GOVERNMENTAL SERVICES, INC.      | 350.00                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434503                           | 9-Mar-23                | GRACE BJORNSTAD                           | 490.26                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434504                           | 9-Mar-23                | GRAINGER                                  | 8,864.39                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434505                           | 9-Mar-23                | GRAVITEC SYSTEMS, INC                     | 482.29                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434506                           | 9-Mar-23                | GRAYBAR ELECTRIC COMPANY                  | 13,681.25                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434507                           | 9-Mar-23                | GSRP ST SOLAR I LLC                       | 10,047.90                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434508                           | 9-Mar-23                | HACH COMPANY                              | 5,014.84                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434509                           | 9-Mar-23                | HDR ENGINEERING INC                       | 39,788.50                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434510                           | 9-Mar-23                | HELPMATES STAFFING SERVICES LLC           | 7,161.63                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434511                           | 9-Mar-23                | HI-LINE INC                               | 835.13                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434512                           | 9-Mar-23                | HOME DEPOT USA INC                        | 110.43                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434513                           | 9-Mar-23                | HOME DEPOT USA INC                        | 58.14                     | IRWD Wells Fargo Check No Print | Reconciled    |
| 434514                           | 9-Mar-23                | HOYA OPTICAL LABS OF AMERICA, INC.        | 211.00                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434515                           | 9-Mar-23                | INNOVATIVE CONSTRUCTION SOLUTIONS         | 654,552.85                | IRWD Wells Fargo Check No Print | Reconciled    |
| 434516                           | 9-Mar-23                | INTEGRITY MUNICIPAL SERVICES LLC          | 2,575.00                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434517                           | 9-Mar-23                | IRON MOUNTAIN INFORMATION MANAGEMENT INC  | 940.36                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434518                           | 9-Mar-23                | IRVINE PACIFIC                            | 792.28                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434519                           | 9-Mar-23                | JOHN URLAKIS                              | 820.89                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434520                           | 9-Mar-23                | JOHN URLAKIS                              | 1,144.05                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434521                           | 9-Mar-23                | KAN VENTURES, INC                         | 7,750.00                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434522                           | 9-Mar-23                | KESLER, ROBERT                            | 208.40                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434523                           | 9-Mar-23                | KIMBALL MIDWEST                           | 685.19                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434524                           | 9-Mar-23                | KO, SUZANNE                               | 72.60                     | IRWD Wells Fargo Check No Print | Reconciled    |
| 434525                           | 9-Mar-23                | LANDCARE HOLDINGS, INC.                   | 154,320.01                | IRWD Wells Fargo Check No Print | Reconciled    |
| 434526                           | 9-Mar-23                | LENNAR HOMES OF CALIFORNIA, INC.          | 639.48                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434527                           | 9-Mar-23                | LENNAR HOMES OF CALIFORNIA, INC.          | 240.91                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434528                           | 9-Mar-23                | LIFSCHITZ, CASANDRA                       | 120.00                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434529                           | 9-Mar-23                | LINDE GAS & EQUIPMENT INC.                | 850.88                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434530                           | 9-Mar-23                | LINDSAY POLIC CONSULTING, INC.            | 2,500.00                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434531                           | 9-Mar-23                | LSA ASSOCIATES INC                        | 3,172.28                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434532                           | 9-Mar-23                | MBC AQUATIC SCIENCES, INC.                | 1,400.00                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434533                           | 9-Mar-23                | MC FADDEN-DALE INDUSTRIAL                 | 381.10                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434534                           | 9-Mar-23                | MC MASTER CARR SUPPLY CO                  | 2,880.26                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434535                           | 9-Mar-23                | MICROSOFT CORPORATION                     | 24.00                     | IRWD Wells Fargo Check No Print | Reconciled    |
| 434536                           | 9-Mar-23                | MILES CHEMICAL COMPANY, INC.              | 8,937.17                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434537                           | 9-Mar-23                | MINOUI, ALIREZA                           | 15.71                     | IRWD Wells Fargo Check No Print | Negotiable    |
| 434538                           | 9-Mar-23                | NATIONAL READY MIXED CONCRETE SALES, LLC  | 1,601.64                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434539                           | 9-Mar-23                | NICHOLAS, MICHAEL                         | 110.19                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434540                           | 9-Mar-23                | NIXON-EGLI EQUIPMENT COMPANY INC.         | 751.08                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434541                           | 9-Mar-23                | NMG GEOTECHNICAL INC                      | 7,479.60                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434542                           | 9-Mar-23                | NORTHWOOD PLACE APTS                      | 234.46                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434543                           | 9-Mar-23                | O'REILLY AUTO ENTERPRISES, LLC            | 573.89                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434544                           | 9-Mar-23                | ORACLE AMERICA, INC.                      | 242,471.64                | IRWD Wells Fargo Check No Print | Reconciled    |

**IRVINE RANCH WATER DISTRICT  
AP DISBURSEMENTS AND VOIDS FOR MARCH 2023**

| CHECK OR<br>ELECTRONIC # | PAYMENT<br>DATE | SUPPLIERS  | PAYMENT<br>AMOUNT | PAYMENT METHOD                  | STATUS     |
|--------------------------|-----------------|--|-------------------|---------------------------------|------------|
| 434545                   | 9-Mar-23        | ORANGE COUNTY FIRE AUTHORITY                       | 448.00            | IRWD Wells Fargo Check No Print | Reconciled |
| 434546                   | 9-Mar-23        | ORRICK, HERRINGTON & SUTCLIFFE LLP                 | 30,000.00         | IRWD Wells Fargo Check No Print | Reconciled |
| 434547                   | 9-Mar-23        | PACIFIC HYDROTECH CORPORATION                      | 33,951.22         | IRWD Wells Fargo Check No Print | Reconciled |
| 434548                   | 9-Mar-23        | PACIFIC HYDROTECH CORPORATION                      | 1,848,712.92      | IRWD Wells Fargo Check No Print | Reconciled |
| 434549                   | 9-Mar-23        | PACIFIC HYDROTECH CORPORATION                      | 20,277.97         | IRWD Wells Fargo Check No Print | Reconciled |
| 434550                   | 9-Mar-23        | PACIFIC HYDROTECH CORPORATION                      | 27,003.56         | IRWD Wells Fargo Check No Print | Reconciled |
| 434551                   | 9-Mar-23        | PACIFIC HYDROTECH CORPORATION                      | 16,067.93         | IRWD Wells Fargo Check No Print | Reconciled |
| 434552                   | 9-Mar-23        | PENN ARCHIVE SERVICES                              | 89.07             | IRWD Wells Fargo Check No Print | Reconciled |
| 434553                   | 9-Mar-23        | PLUMBERS DEPOT INC.                                | 2,816.13          | IRWD Wells Fargo Check No Print | Reconciled |
| 434554                   | 9-Mar-23        | PROJECT PARTNERS LLC                               | 10,525.00         | IRWD Wells Fargo Check No Print | Reconciled |
| 434555                   | 9-Mar-23        | PRUDENTIAL OVERALL SUPPLY                          | 398.01            | IRWD Wells Fargo Check No Print | Reconciled |
| 434556                   | 9-Mar-23        | PULTE GROUP  | 916.97            | IRWD Wells Fargo Check No Print | Negotiable |
| 434557                   | 9-Mar-23        | QUADIENT LEASING USA, INC.                         | 3,265.46          | IRWD Wells Fargo Check No Print | Reconciled |
| 434558                   | 9-Mar-23        | QUINCY COMPRESSOR LLC                              | 2,135.66          | IRWD Wells Fargo Check No Print | Reconciled |
| 434559                   | 9-Mar-23        | R C FOSTER CORPORATION                             | 117,087.50        | IRWD Wells Fargo Check No Print | Reconciled |
| 434560                   | 9-Mar-23        | RANA, FATIMA                                       | 20.24             | IRWD Wells Fargo Check No Print | Negotiable |
| 434561                   | 9-Mar-23        | RED WING SHOE STORE                                | 381.89            | IRWD Wells Fargo Check No Print | Reconciled |
| 434562                   | 9-Mar-23        | REFRIGERATION SUPPLIES DISTRIBUTOR                 | 832.22            | IRWD Wells Fargo Check No Print | Reconciled |
| 434563                   | 9-Mar-23        | RESILIENT COMMUNICATIONS INC.                      | 83,812.39         | IRWD Wells Fargo Check No Print | Negotiable |
| 434564                   | 9-Mar-23        | RS HUGHES COMPANY, INC.                            | 376.40            | IRWD Wells Fargo Check No Print | Reconciled |
| 434565                   | 9-Mar-23        | SAFETY CENTER INCORPORATED                         | 5,544.00          | IRWD Wells Fargo Check No Print | Reconciled |
| 434566                   | 9-Mar-23        | SAN CARLO APARTMENTS                               | 42.94             | IRWD Wells Fargo Check No Print | Reconciled |
| 434567                   | 9-Mar-23        | SANTA MARGARITA FORD                               | 98.14             | IRWD Wells Fargo Check No Print | Reconciled |
| 434568                   | 9-Mar-23        | SCA OF CA, LLC                                     | 3,045.90          | IRWD Wells Fargo Check No Print | Reconciled |
| 434569                   | 9-Mar-23        | SCHINDLER ELEVATOR CORPORATION                     | 280.02            | IRWD Wells Fargo Check No Print | Reconciled |
| 434570                   | 9-Mar-23        | SECURITAS SECURITY SERVICES USA, INC.              | 80,494.84         | IRWD Wells Fargo Check No Print | Reconciled |
| 434571                   | 9-Mar-23        | SHOETERIA  | 672.58            | IRWD Wells Fargo Check No Print | Reconciled |
| 434572                   | 9-Mar-23        | SITONE LANDSCAPE SUPPLY, LLC                       | 64.65             | IRWD Wells Fargo Check No Print | Reconciled |
| 434573                   | 9-Mar-23        | SITMATIC   | 656.20            | IRWD Wells Fargo Check No Print | Reconciled |
| 434574                   | 9-Mar-23        | SOMERSET APARTMENTS                                | 167.59            | IRWD Wells Fargo Check No Print | Reconciled |
| 434575                   | 9-Mar-23        | SOUTH COAST WATER CO.                              | 95.00             | IRWD Wells Fargo Check No Print | Reconciled |
| 434576                   | 9-Mar-23        | SOUTHERN CALIFORNIA EDISON COMPANY                 | 496,066.94        | IRWD Wells Fargo Check No Print | Reconciled |
| 434577                   | 9-Mar-23        | SOUTHERN CALIFORNIA SECURITY CENTERS, INC.         | 6.41              | IRWD Wells Fargo Check No Print | Reconciled |
| 434578                   | 9-Mar-23        | SPARKLETT'S  | 128.73            | IRWD Wells Fargo Check No Print | Reconciled |
| 434579                   | 9-Mar-23        | STANTEC CONSULTING SERVICES INC.                   | 5,340.50          | IRWD Wells Fargo Check No Print | Reconciled |
| 434580                   | 9-Mar-23        | STETSON ENGINEERS INC.                             | 1,298.00          | IRWD Wells Fargo Check No Print | Reconciled |
| 434581                   | 9-Mar-23        | STRADLING YOCCA CARLSON & RAUTH                    | 27,500.00         | IRWD Wells Fargo Check No Print | Reconciled |
| 434582                   | 9-Mar-23        | SUE HIRSHON AND JON MARK HIRSHON                   | 62.35             | IRWD Wells Fargo Check No Print | Reconciled |
| 434583                   | 9-Mar-23        | SWAINS ELECTRIC MOTOR SERVICE                      | 6,923.26          | IRWD Wells Fargo Check No Print | Reconciled |
| 434584                   | 9-Mar-23        | TGS MANAGEMENT COMPANY LLC                         | 199.95            | IRWD Wells Fargo Check No Print | Negotiable |
| 434585                   | 9-Mar-23        | THE PARKLANDS                                      | 460.78            | IRWD Wells Fargo Check No Print | Reconciled |
| 434586                   | 9-Mar-23        | TIC-SPECTRUM OFFICE                                | 22.44             | IRWD Wells Fargo Check No Print | Reconciled |
| 434587                   | 9-Mar-23        | TIERRA VERDE INDUSTRIES                            | 116.37            | IRWD Wells Fargo Check No Print | Reconciled |
| 434588                   | 9-Mar-23        | TINOSI, INC  | 800.00            | IRWD Wells Fargo Check No Print | Reconciled |
| 434589                   | 9-Mar-23        | TOM'S TRUCK CENTER NORTH COUNTY, LLC               | 12,090.63         | IRWD Wells Fargo Check No Print | Reconciled |
| 434590                   | 9-Mar-23        | TONY DEMARIA ELECTRIC, INC (DBA TDE)               | 13,000.00         | IRWD Wells Fargo Check No Print | Reconciled |
| 434591                   | 9-Mar-23        | TOXGUARD FLUID TECHNOLOGIES                        | 515.03            | IRWD Wells Fargo Check No Print | Reconciled |
| 434592                   | 9-Mar-23        | UNITED PARCEL SERVICE INC                          | 49.00             | IRWD Wells Fargo Check No Print | Reconciled |
| 434593                   | 9-Mar-23        | UNIVAR SOLUTIONS USA INC.                          | 11,248.60         | IRWD Wells Fargo Check No Print | Reconciled |
| 434594                   | 9-Mar-23        | US BANK NAT'L ASSOC N.DAKOTA                       | 2,200.00          | IRWD Wells Fargo Check No Print | Reconciled |
| 434595                   | 9-Mar-23        | V&A CONSULTING ENGINEERS                           | 10,184.29         | IRWD Wells Fargo Check No Print | Reconciled |
| 434596                   | 9-Mar-23        | VEOLIA NORTH AMERICA, INC.                         | 6,484.19          | IRWD Wells Fargo Check No Print | Reconciled |
| 434597                   | 9-Mar-23        | VERIZON WIRELESS SERVICES LLC                      | 6,521.02          | IRWD Wells Fargo Check No Print | Reconciled |
| 434598                   | 9-Mar-23        | VWR INTERNATIONAL, LLC                             | 6,488.92          | IRWD Wells Fargo Check No Print | Reconciled |
| 434599                   | 9-Mar-23        | WASTE MANAGEMENT COLLECTIONS AND RECYCLING, INC.   | 4,286.25          | IRWD Wells Fargo Check No Print | Reconciled |
| 434600                   | 9-Mar-23        | WATER TECHNOLOGIES CORPORATION                     | 1,216.12          | IRWD Wells Fargo Check No Print | Reconciled |
| 434601                   | 9-Mar-23        | WAXIE'S ENTERPRISES, INC                           | 1,298.60          | IRWD Wells Fargo Check No Print | Reconciled |
| 434602                   | 9-Mar-23        | WESTERN STATES CONSTRUCTION INC                    | 307.03            | IRWD Wells Fargo Check No Print | Reconciled |
| 434603                   | 9-Mar-23        | ZEBRON CONTRACTING INC                             | 41,250.00         | IRWD Wells Fargo Check No Print | Reconciled |
| 434604                   | 9-Mar-23        | AMERICAN FAMILY LIFE ASSURANCE COMPANY OF COLUMBUS | 3,403.18          | IRWD Wells Fargo Check          | Reconciled |
| 434605                   | 9-Mar-23        | Arbogast, Ryan P                                   | 249.00            | IRWD Wells Fargo Check          | Reconciled |
| 434606                   | 9-Mar-23        | Breiter, Michelle                                  | 16.74             | IRWD Wells Fargo Check          | Reconciled |
| 434607                   | 9-Mar-23        | Cortez, Malcolm A (Malcolm)                        | 62.88             | IRWD Wells Fargo Check          | Reconciled |
| 434608                   | 9-Mar-23        | Cronin, Gregory                                    | 200.00            | IRWD Wells Fargo Check          | Negotiable |
| 434609                   | 9-Mar-23        | Drzymkowski, Michele A (Michele)                   | 12.99             | IRWD Wells Fargo Check          | Reconciled |
| 434610                   | 9-Mar-23        | Garcia, Alejandro (Alex)                           | 302.00            | IRWD Wells Fargo Check          | Reconciled |
| 434611                   | 9-Mar-23        | Garcia, Juan                                       | 494.46            | IRWD Wells Fargo Check          | Reconciled |
| 434612                   | 9-Mar-23        | Huang, Robert                                      | 200.00            | IRWD Wells Fargo Check          | Reconciled |
| 434613                   | 9-Mar-23        | IRWD-PETTY CASH CUSTODIAN                          | 784.56            | IRWD Wells Fargo Check          | Reconciled |
| 434614                   | 9-Mar-23        | Kanoff, Debbie G (Debbie)                          | 151.85            | IRWD Wells Fargo Check          | Reconciled |
| 434615                   | 9-Mar-23        | Karpan, Casey L (Casey)                            | 200.00            | IRWD Wells Fargo Check          | Reconciled |

**IRVINE RANCH WATER DISTRICT  
AP DISBURSEMENTS AND VOIDS FOR MARCH 2023**

| <b>CHECK OR<br/>ELECTRONIC #</b> | <b>PAYMENT<br/>DATE</b> | <b>SUPPLIERS</b>   | <b>PAYMENT<br/>AMOUNT</b> | <b>PAYMENT METHOD</b>           | <b>STATUS</b> |
|----------------------------------|-------------------------|--|---------------------------|---------------------------------|---------------|
| 434616                           | 9-Mar-23                | Ledesma, Alejandro (Alex)                                | 200.00                    | IRWD Wells Fargo Check          | Reconciled    |
| 434617                           | 9-Mar-23                | Legault, Dan (Dan)                                       | 200.00                    | IRWD Wells Fargo Check          | Reconciled    |
| 434618                           | 9-Mar-23                | Lin, Eileen (Eileen)                                     | 106.49                    | IRWD Wells Fargo Check          | Reconciled    |
| 434619                           | 9-Mar-23                | Lu, Michael  | 15.72                     | IRWD Wells Fargo Check          | Reconciled    |
| 434620                           | 9-Mar-23                | Reynoso, Pio (Pio)                                       | 307.00                    | IRWD Wells Fargo Check          | Reconciled    |
| 434621                           | 13-Mar-23               | TUTTLE-CLICK FORD LINCOLN                                | 52,650.00                 | IRWD Wells Fargo Check No Print | Negotiable    |
| 434622                           | 13-Mar-23               | PERS LONG TERM CARE                                      | 716.23                    | IRWD Wells Fargo Check          | Reconciled    |
| 434623                           | 13-Mar-23               | INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS LOCAL 47 | 5,688.41                  | IRWD Wells Fargo Check          | Reconciled    |
| 434624                           | 16-Mar-23               | A&A WIPING CLOTH CO                                      | 1,939.50                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434625                           | 16-Mar-23               | AIRGAS, INC.   | 854.32                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434626                           | 16-Mar-23               | ALL STAR GLASS   | 227.33                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434627                           | 16-Mar-23               | ALLIED ELECTRONICS INC                                   | 1,277.92                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434628                           | 16-Mar-23               | AMAZON CAPITAL SERVICES, INC.                            | 890.35                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434629                           | 16-Mar-23               | AQUA-METRIC SALES COMPANY                                | 6,532.47                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434630                           | 16-Mar-23               | ARTISTIC MAINTENANCE                                     | 5,361.00                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434631                           | 16-Mar-23               | AT&T CORP  | 1,129.52                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434632                           | 16-Mar-23               | AT&T CORP  | 1,694.47                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434633                           | 16-Mar-23               | AT&T CORP  | 128.62                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434634                           | 16-Mar-23               | AUTOZONE PARTS, INC.                                     | 1,568.33                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434635                           | 16-Mar-23               | BARBARA MARTYN TRUST, KINGA CIESZKO TTE                  | 47.07                     | IRWD Wells Fargo Check No Print | Reconciled    |
| 434636                           | 16-Mar-23               | BIOTAGE LLC  | 456.11                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434637                           | 16-Mar-23               | BOOT WORLD, INC.   | 173.63                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434638                           | 16-Mar-23               | BORCHARD SURVEYING & MAPPING, INC.                       | 11,977.50                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434639                           | 16-Mar-23               | BRIAN HOMSY  | 6,897.15                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434640                           | 16-Mar-23               | BRIGHT MARKET, LLC                                       | 1,623.00                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434641                           | 16-Mar-23               | CANON FINANCIAL SERVICES, INC                            | 8,332.75                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434642                           | 16-Mar-23               | CANON SOLUTIONS AMERICA, INC.                            | 5,594.68                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434643                           | 16-Mar-23               | CDW GOVERNMENT LLC                                       | 5,345.07                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434644                           | 16-Mar-23               | CHEM TECH INTERNATIONAL INC                              | 17,978.09                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434645                           | 16-Mar-23               | CLA-VAL COMPANY  | 2,376.97                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434646                           | 16-Mar-23               | CNC ENGINEERING  | 4,475.00                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434647                           | 16-Mar-23               | COMMERCIAL DOOR OF ORANGE COUNTY, INC.                   | 9,478.89                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434648                           | 16-Mar-23               | CONSTELLATION NEWENERGY, INC.                            | 10,647.02                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434649                           | 16-Mar-23               | COUNTY OF ORANGE   | 82,491.11                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434650                           | 16-Mar-23               | CPARS CONSULTING, INC.                                   | 25,025.63                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434651                           | 16-Mar-23               | CR & R INCORPORATED                                      | 495.83                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434652                           | 16-Mar-23               | CURATIVE I.T. LLC  | 1,506.05                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434653                           | 16-Mar-23               | DDB ENGINEERING, INC.                                    | 3,870.00                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434654                           | 16-Mar-23               | DELL MARKETING LP  | 4,134.82                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434655                           | 16-Mar-23               | DISTRIBUTION SYSTEMS INTERNATIONAL INC                   | 2,480.36                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434657                           | 16-Mar-23               | DUDEK  | 4,246.25                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434658                           | 16-Mar-23               | DUDLEY RIDGE WATER DISTRICT                              | 6,185.24                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434659                           | 16-Mar-23               | EAGLE PRINT DYNAMICS                                     | 7,143.93                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434660                           | 16-Mar-23               | EDWARDS LIFESCIENCES                                     | 5,105.55                  | IRWD Wells Fargo Check No Print | Negotiable    |
| 434661                           | 16-Mar-23               | EL TORO WATER DISTRICT                                   | 12,034.00                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434662                           | 16-Mar-23               | ELITE EQUIPMENT, INC.                                    | 569.72                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434663                           | 16-Mar-23               | ENVIRONMENTAL SCIENCE ASSOCIATES                         | 1,916.92                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434664                           | 16-Mar-23               | FEDEX  | 453.85                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434665                           | 16-Mar-23               | FISHER SCIENTIFIC COMPANY LLC                            | 5,848.72                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434666                           | 16-Mar-23               | FOUGHT, CYNTHIA J.                                       | 2,720.77                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434667                           | 16-Mar-23               | FRONTIER CALIFORNIA INC.                                 | 59.97                     | IRWD Wells Fargo Check No Print | Reconciled    |
| 434668                           | 16-Mar-23               | GEA MECHANICAL EQUIPMENT US, INC.                        | 15,442.44                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434669                           | 16-Mar-23               | GEI CONSULTANTS INC                                      | 8,922.00                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434670                           | 16-Mar-23               | GENTERRA CONSULTANTS INC                                 | 535.00                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434671                           | 16-Mar-23               | GRAINGER   | 17,007.04                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434672                           | 16-Mar-23               | HACH COMPANY   | 1,847.46                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434673                           | 16-Mar-23               | HDR ENGINEERING INC                                      | 32,182.50                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434674                           | 16-Mar-23               | HELPMATES STAFFING SERVICES LLC                          | 7,385.52                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434675                           | 16-Mar-23               | HI-LINE INC  | 355.33                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434676                           | 16-Mar-23               | HOME DEPOT USA INC                                       | 255.03                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434677                           | 16-Mar-23               | HOME DEPOT USA INC                                       | 784.06                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434678                           | 16-Mar-23               | HOYA OPTICAL LABS OF AMERICA, INC.                       | 211.00                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434679                           | 16-Mar-23               | HUYNH, STEVEN  | 78.04                     | IRWD Wells Fargo Check No Print | Reconciled    |
| 434680                           | 16-Mar-23               | IRVINE UNIFIED SCHOOL DISTRICT                           | 1,875.00                  | IRWD Wells Fargo Check No Print | Negotiable    |
| 434681                           | 16-Mar-23               | JOHNSON, SAMUEL  | 32.41                     | IRWD Wells Fargo Check No Print | Negotiable    |
| 434682                           | 16-Mar-23               | JOHNSON-FRANK & ASSOCIATES, INC.                         | 6,900.00                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434683                           | 16-Mar-23               | JPR SYSTEMS INC  | 2,423.00                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434684                           | 16-Mar-23               | KNOWBE4, INC.  | 13,248.00                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434685                           | 16-Mar-23               | KROHNE, INC  | 762.01                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434686                           | 16-Mar-23               | KWOUN, MOON  | 54.49                     | IRWD Wells Fargo Check No Print | Reconciled    |
| 434687                           | 16-Mar-23               | LARISON CONTRACTING CORP.                                | 99,596.00                 | IRWD Wells Fargo Check No Print | Reconciled    |

**IRVINE RANCH WATER DISTRICT  
AP DISBURSEMENTS AND VOIDS FOR MARCH 2023**

| CHECK OR<br>ELECTRONIC # | PAYMENT<br>DATE | SUPPLIERS  | PAYMENT<br>AMOUNT | PAYMENT METHOD                  | STATUS     |
|--------------------------|-----------------|--|-------------------|---------------------------------|------------|
| 434688                   | 16-Mar-23       | LIFT-IT MANUFACTURING CO., INC.                        | 5,118.07          | IRWD Wells Fargo Check No Print | Reconciled |
| 434689                   | 16-Mar-23       | LINDE GAS & EQUIPMENT INC.                             | 19,648.40         | IRWD Wells Fargo Check No Print | Reconciled |
| 434690                   | 16-Mar-23       | LINE-X OF SOUTH COAST                                  | 1,155.50          | IRWD Wells Fargo Check No Print | Reconciled |
| 434691                   | 16-Mar-23       | MC FADDEN-DALE INDUSTRIAL                              | 189.37            | IRWD Wells Fargo Check No Print | Reconciled |
| 434692                   | 16-Mar-23       | MICHAEL K. NUNLEY & ASSOCIATES, INC.                   | 4,235.50          | IRWD Wells Fargo Check No Print | Reconciled |
| 434693                   | 16-Mar-23       | MUTUAL PROPANE   | 27.00             | IRWD Wells Fargo Check No Print | Reconciled |
| 434694                   | 16-Mar-23       | NATIONAL OILWELL VARCO, L.P.                           | 161.64            | IRWD Wells Fargo Check No Print | Reconciled |
| 434695                   | 16-Mar-23       | O'REILLY AUTO ENTERPRISES, LLC                         | 116.31            | IRWD Wells Fargo Check No Print | Reconciled |
| 434696                   | 16-Mar-23       | OCAMPO, RUBEN  | 32.76             | IRWD Wells Fargo Check No Print | Negotiable |
| 434697                   | 16-Mar-23       | OCTA   | 4,729.00          | IRWD Wells Fargo Check No Print | Reconciled |
| 434698                   | 16-Mar-23       | ORANGE COUNTY MOSQUITO AND VECTOR CONTROL DISTRICT     | 897.20            | IRWD Wells Fargo Check No Print | Reconciled |
| 434699                   | 16-Mar-23       | PACIFIC RIDGE MAINTENANCE (PACR)                       | 48.53             | IRWD Wells Fargo Check No Print | Reconciled |
| 434700                   | 16-Mar-23       | PACIFIC STAR CHEMICAL, LLC                             | 3,189.67          | IRWD Wells Fargo Check No Print | Reconciled |
| 434701                   | 16-Mar-23       | PAYNE & FEARS LLP                                      | 38,646.00         | IRWD Wells Fargo Check No Print | Reconciled |
| 434702                   | 16-Mar-23       | PILAR ONATE  | 5,800.00          | IRWD Wells Fargo Check No Print | Negotiable |
| 434703                   | 16-Mar-23       | PILLSBURY WINTHROP SHAW PITTMAN LLP                    | 9,540.00          | IRWD Wells Fargo Check No Print | Reconciled |
| 434704                   | 16-Mar-23       | PROMOCHROM TECHNOLOGIES LTD.                           | 79,000.00         | IRWD Wells Fargo Check No Print | Reconciled |
| 434705                   | 16-Mar-23       | PRUDENTIAL OVERALL SUPPLY                              | 11,376.49         | IRWD Wells Fargo Check No Print | Reconciled |
| 434706                   | 16-Mar-23       | PSOMAS   | 7,925.00          | IRWD Wells Fargo Check No Print | Reconciled |
| 434707                   | 16-Mar-23       | PULTE GROUP  | 985.61            | IRWD Wells Fargo Check No Print | Negotiable |
| 434708                   | 16-Mar-23       | QUINN COMPANY  | 1,955.60          | IRWD Wells Fargo Check No Print | Reconciled |
| 434709                   | 16-Mar-23       | R&B AUTOMATION, INC.                                   | 24,599.33         | IRWD Wells Fargo Check No Print | Reconciled |
| 434710                   | 16-Mar-23       | RENTOKIL NORTH AMERICA, INC                            | 6,475.75          | IRWD Wells Fargo Check No Print | Reconciled |
| 434711                   | 16-Mar-23       | RODNEY HARMSWORTH ASSOCIATES, INC.                     | 2,587.95          | IRWD Wells Fargo Check No Print | Reconciled |
| 434712                   | 16-Mar-23       | SERRANO WATER DISTRICT                                 | 17,059.60         | IRWD Wells Fargo Check No Print | Reconciled |
| 434713                   | 16-Mar-23       | SHIMMICK CONSTRUCTION INC.                             | 67,046.25         | IRWD Wells Fargo Check No Print | Reconciled |
| 434714                   | 16-Mar-23       | SOUTH COAST WATER DISTRICT                             | 1,394.50          | IRWD Wells Fargo Check No Print | Reconciled |
| 434715                   | 16-Mar-23       | SOUTH ORANGE COUNTY REGIONAL CHAMBERS OF COMMERCE      | 500.00            | IRWD Wells Fargo Check No Print | Reconciled |
| 434716                   | 16-Mar-23       | SOUTHERN CALIFORNIA EDISON COMPANY                     | 579,468.50        | IRWD Wells Fargo Check No Print | Reconciled |
| 434717                   | 16-Mar-23       | SOUTHERN CALIFORNIA GAS COMPANY                        | 13,765.68         | IRWD Wells Fargo Check No Print | Reconciled |
| 434718                   | 16-Mar-23       | STANTEC CONSULTING SERVICES INC.                       | 7,364.88          | IRWD Wells Fargo Check No Print | Reconciled |
| 434719                   | 16-Mar-23       | STETSON ENGINEERS INC.                                 | 8,244.75          | IRWD Wells Fargo Check No Print | Reconciled |
| 434720                   | 16-Mar-23       | SYNAGRO-WWT, INC.                                      | 105,393.92        | IRWD Wells Fargo Check No Print | Reconciled |
| 434721                   | 16-Mar-23       | TAIT ENVIRONMENTAL SERVICES, INC.                      | 420.00            | IRWD Wells Fargo Check No Print | Reconciled |
| 434722                   | 16-Mar-23       | TEKDRAULICS  | 10,805.26         | IRWD Wells Fargo Check No Print | Reconciled |
| 434723                   | 16-Mar-23       | THE SHYFT GROUP USA, INC                               | 285.32            | IRWD Wells Fargo Check No Print | Reconciled |
| 434724                   | 16-Mar-23       | TIC-OFFICE PROPERTIES                                  | 3,408.61          | IRWD Wells Fargo Check No Print | Negotiable |
| 434725                   | 16-Mar-23       | TINOSI, INC  | 800.00            | IRWD Wells Fargo Check No Print | Reconciled |
| 434726                   | 16-Mar-23       | TRAFFIC MANAGEMENT, INC                                | 2,316.00          | IRWD Wells Fargo Check No Print | Reconciled |
| 434727                   | 16-Mar-23       | UNITED PARCEL SERVICE INC                              | 30.00             | IRWD Wells Fargo Check No Print | Reconciled |
| 434728                   | 16-Mar-23       | UNITED PAVING CO.                                      | 1,597.19          | IRWD Wells Fargo Check No Print | Negotiable |
| 434729                   | 16-Mar-23       | USA WASTE OF CALIFORNIA, INC.                          | 574.00            | IRWD Wells Fargo Check No Print | Reconciled |
| 434730                   | 16-Mar-23       | UTILITY CRANE & EQUIPMENT, INC.                        | 283.42            | IRWD Wells Fargo Check No Print | Reconciled |
| 434731                   | 16-Mar-23       | VANHORIK, SHARON                                       | 47.41             | IRWD Wells Fargo Check No Print | Reconciled |
| 434732                   | 16-Mar-23       | VEOLIA WATER TECHNOLOGIES TREATMENT SOLUTIONS USA INC. | 11,612.67         | IRWD Wells Fargo Check No Print | Negotiable |
| 434733                   | 16-Mar-23       | VULCAN MATERIALS COMPANY                               | 2,157.31          | IRWD Wells Fargo Check No Print | Reconciled |
| 434734                   | 16-Mar-23       | VWR INTERNATIONAL, LLC                                 | 117.94            | IRWD Wells Fargo Check No Print | Reconciled |
| 434735                   | 16-Mar-23       | WEST COAST SAND & GRAVEL INC.                          | 1,839.00          | IRWD Wells Fargo Check No Print | Reconciled |
| 434736                   | 16-Mar-23       | WEST YOST & ASSOCIATES, INC.                           | 1,341.50          | IRWD Wells Fargo Check No Print | Reconciled |
| 434737                   | 16-Mar-23       | WILLIAM LYON HOMES, INC.                               | 95.94             | IRWD Wells Fargo Check No Print | Reconciled |
| 434738                   | 16-Mar-23       | YAN, ALVIN   | 28.39             | IRWD Wells Fargo Check No Print | Reconciled |
| 434739                   | 16-Mar-23       | ZHENG, LAN   | 40.20             | IRWD Wells Fargo Check No Print | Negotiable |
| 434740                   | 16-Mar-23       | AMERICAN FAMILY LIFE ASSURANCE COMPANY OF COLUMBUS     | 1,844.92          | IRWD Wells Fargo Check          | Reconciled |
| 434741                   | 16-Mar-23       | ANTHEM BLUE CROSS                                      | 306.93            | IRWD Wells Fargo Check          | Reconciled |
| 434742                   | 16-Mar-23       | Haney, Lisa  | 2,068.32          | IRWD Wells Fargo Check          | Reconciled |
| 434743                   | 16-Mar-23       | IRWD-PETTY CASH CUSTODIAN                              | 1,067.55          | IRWD Wells Fargo Check          | Reconciled |
| 434744                   | 16-Mar-23       | Nguyen, Claire   | 307.00            | IRWD Wells Fargo Check          | Reconciled |
| 434745                   | 16-Mar-23       | Oldewage, Lars D (Lars)                                | 56.98             | IRWD Wells Fargo Check          | Reconciled |
| 434746                   | 16-Mar-23       | SOUTHERN CALIFORNIA EDISON COMPANY                     | 4,121.40          | IRWD Wells Fargo Check          | Negotiable |
| 434747                   | 23-Mar-23       | 32ND. DISTRICT AGRICULTURAL ASSOCIATION                | 35.00             | IRWD Wells Fargo Check No Print | Reconciled |
| 434748                   | 23-Mar-23       | ABB INC  | 15,081.00         | IRWD Wells Fargo Check No Print | Reconciled |
| 434749                   | 23-Mar-23       | ABCO DIESEL INC.                                       | 102.41            | IRWD Wells Fargo Check No Print | Reconciled |
| 434750                   | 23-Mar-23       | AGILENT TECHNOLOGIES, INC.                             | 231.92            | IRWD Wells Fargo Check No Print | Reconciled |
| 434751                   | 23-Mar-23       | AIRGAS, INC.   | 954.79            | IRWD Wells Fargo Check No Print | Reconciled |
| 434752                   | 23-Mar-23       | AMAZON CAPITAL SERVICES, INC.                          | 1,140.60          | IRWD Wells Fargo Check No Print | Reconciled |
| 434753                   | 23-Mar-23       | AMERICAN WATER WORKS ASSOC                             | 11,952.00         | IRWD Wells Fargo Check No Print | Reconciled |
| 434754                   | 23-Mar-23       | ASSURED FLOW SALES INC                                 | 390.74            | IRWD Wells Fargo Check No Print | Negotiable |
| 434755                   | 23-Mar-23       | AT&T CORP  | 178.84            | IRWD Wells Fargo Check No Print | Reconciled |
| 434756                   | 23-Mar-23       | AT&T CORP  | 12,262.81         | IRWD Wells Fargo Check No Print | Reconciled |
| 434757                   | 23-Mar-23       | ATI RESTORATION, LLC                                   | 16,681.14         | IRWD Wells Fargo Check No Print | Reconciled |
| 434758                   | 23-Mar-23       | AUTOZONE PARTS, INC.                                   | 495.00            | IRWD Wells Fargo Check No Print | Reconciled |

**IRVINE RANCH WATER DISTRICT  
AP DISBURSEMENTS AND VOIDS FOR MARCH 2023**

| CHECK OR<br>ELECTRONIC # | PAYMENT<br>DATE | SUPPLIERS                                     | PAYMENT<br>AMOUNT | PAYMENT METHOD                  | STATUS     |
|--------------------------|-----------------|---|-------------------|---------------------------------|------------|
| 434759                   | 23-Mar-23       | AZTEC TECHNOLOGY CORPORATION                  | 969.76            | IRWD Wells Fargo Check No Print | Reconciled |
| 434760                   | 23-Mar-23       | BANK OF NEW YORK MELLON TRUST COMPANY NA      | 1,705.00          | IRWD Wells Fargo Check No Print | Reconciled |
| 434761                   | 23-Mar-23       | BATTERIES PLUS AND BATTERIES PLUS BULBS       | 830.59            | IRWD Wells Fargo Check No Print | Reconciled |
| 434762                   | 23-Mar-23       | BOTROS, SAMIR                                 | 33.81             | IRWD Wells Fargo Check No Print | Reconciled |
| 434763                   | 23-Mar-23       | C WELLS PIPELINE MATERIALS INC                | 337.26            | IRWD Wells Fargo Check No Print | Reconciled |
| 434764                   | 23-Mar-23       | CALIFORNIA ASSOCIATION OF SANITATION AGENCIES | 5,000.00          | IRWD Wells Fargo Check No Print | Reconciled |
| 434765                   | 23-Mar-23       | CARBON SUPPLY INC.                            | 377.13            | IRWD Wells Fargo Check No Print | Reconciled |
| 434766                   | 23-Mar-23       | CDW GOVERNMENT LLC                            | 4,425.76          | IRWD Wells Fargo Check No Print | Reconciled |
| 434767                   | 23-Mar-23       | CENTROID SYSTEMS, INC.                        | 51,251.00         | IRWD Wells Fargo Check No Print | Reconciled |
| 434768                   | 23-Mar-23       | CHEM TECH INTERNATIONAL INC                   | 23,505.50         | IRWD Wells Fargo Check No Print | Reconciled |
| 434769                   | 23-Mar-23       | CIMARRON ENERGY, INC                          | 1,500.00          | IRWD Wells Fargo Check No Print | Reconciled |
| 434770                   | 23-Mar-23       | CITY OF NEWPORT BEACH                         | 2,028.09          | IRWD Wells Fargo Check No Print | Reconciled |
| 434771                   | 23-Mar-23       | CITY OF TUSTIN                                | 328,964.99        | IRWD Wells Fargo Check No Print | Reconciled |
| 434772                   | 23-Mar-23       | CLARKE MOSQUITO CONTROL PRODUCTS, INC.        | 45,165.00         | IRWD Wells Fargo Check No Print | Reconciled |
| 434773                   | 23-Mar-23       | CNC ENGINEERING                               | 2,545.00          | IRWD Wells Fargo Check No Print | Reconciled |
| 434774                   | 23-Mar-23       | COLE-PARMER INSTRUMENT CO                     | 1,498.35          | IRWD Wells Fargo Check No Print | Reconciled |
| 434775                   | 23-Mar-23       | COMMERCIAL DOOR OF ORANGE COUNTY, INC.        | 4,327.56          | IRWD Wells Fargo Check No Print | Reconciled |
| 434776                   | 23-Mar-23       | CONSTELLATION NEWENERGY, INC.                 | 53,264.29         | IRWD Wells Fargo Check No Print | Negotiable |
| 434777                   | 23-Mar-23       | COUNTY OF ORANGE                              | 170.64            | IRWD Wells Fargo Check No Print | Negotiable |
| 434778                   | 23-Mar-23       | D & G SIGNS                                   | 3,860.26          | IRWD Wells Fargo Check No Print | Reconciled |
| 434779                   | 23-Mar-23       | DAVID, CHRISTINE                              | 37.81             | IRWD Wells Fargo Check No Print | Reconciled |
| 434780                   | 23-Mar-23       | DEALERS SERVICE COMPANY, INC                  | 2,513.82          | IRWD Wells Fargo Check No Print | Reconciled |
| 434781                   | 23-Mar-23       | DELL MARKETING LP                             | 12,989.50         | IRWD Wells Fargo Check No Print | Reconciled |
| 434782                   | 23-Mar-23       | DILYTICS INC                                  | 2,800.00          | IRWD Wells Fargo Check No Print | Reconciled |
| 434783                   | 23-Mar-23       | DIRECTV INC                                   | 152.99            | IRWD Wells Fargo Check No Print | Reconciled |
| 434784                   | 23-Mar-23       | DISCOVERY SCIENCE CENTER OF ORANGE COUNTY     | 8,387.76          | IRWD Wells Fargo Check No Print | Reconciled |
| 434785                   | 23-Mar-23       | DUDEK   | 14,511.25         | IRWD Wells Fargo Check No Print | Reconciled |
| 434786                   | 23-Mar-23       | DURSO, MARY                                   | 51.18             | IRWD Wells Fargo Check No Print | Reconciled |
| 434787                   | 23-Mar-23       | E SOURCE COMPANIES LLC                        | 6,125.60          | IRWD Wells Fargo Check No Print | Negotiable |
| 434788                   | 23-Mar-23       | EAGLE PRINT DYNAMICS                          | 3,766.84          | IRWD Wells Fargo Check No Print | Reconciled |
| 434789                   | 23-Mar-23       | ENTERPRISE INFORMATION SYSTEMS, INC.          | 16,380.00         | IRWD Wells Fargo Check No Print | Reconciled |
| 434790                   | 23-Mar-23       | ENVIRONMENTAL EQUIPMENT SUPPLY                | 429.92            | IRWD Wells Fargo Check No Print | Reconciled |
| 434791                   | 23-Mar-23       | ENVIRONMENTAL RESOURCE ASSOCIATES             | 669.62            | IRWD Wells Fargo Check No Print | Reconciled |
| 434792                   | 23-Mar-23       | ENVIRONMENTAL SCIENCE ASSOCIATES              | 540.75            | IRWD Wells Fargo Check No Print | Reconciled |
| 434793                   | 23-Mar-23       | EPPENDORF NORTH AMERICA INC                   | 101.90            | IRWD Wells Fargo Check No Print | Reconciled |
| 434794                   | 23-Mar-23       | FARRELL & ASSOCIATES                          | 1,342.13          | IRWD Wells Fargo Check No Print | Reconciled |
| 434795                   | 23-Mar-23       | FATIMA KAFAY & AMAR ABDEL MONEIM              | 424.51            | IRWD Wells Fargo Check No Print | Reconciled |
| 434796                   | 23-Mar-23       | FISHER SCIENTIFIC COMPANY LLC                 | 9,802.60          | IRWD Wells Fargo Check No Print | Reconciled |
| 434797                   | 23-Mar-23       | FOOTHILL/EASTERN TRANSPORTATION               | 9,300.00          | IRWD Wells Fargo Check No Print | Reconciled |
| 434798                   | 23-Mar-23       | FRONTIER CALIFORNIA INC.                      | 519.52            | IRWD Wells Fargo Check No Print | Reconciled |
| 434799                   | 23-Mar-23       | GEA MECHANICAL EQUIPMENT US, INC.             | 20,500.00         | IRWD Wells Fargo Check No Print | Reconciled |
| 434800                   | 23-Mar-23       | GEIGER BROS                                   | 3,018.49          | IRWD Wells Fargo Check No Print | Reconciled |
| 434801                   | 23-Mar-23       | GRAINGER                                      | 6,652.58          | IRWD Wells Fargo Check No Print | Reconciled |
| 434802                   | 23-Mar-23       | HACH COMPANY                                  | 2,022.57          | IRWD Wells Fargo Check No Print | Reconciled |
| 434803                   | 23-Mar-23       | HAMEED, MAISARA                               | 21.00             | IRWD Wells Fargo Check No Print | Negotiable |
| 434804                   | 23-Mar-23       | HAMILTON, KURT                                | 465.34            | IRWD Wells Fargo Check No Print | Reconciled |
| 434805                   | 23-Mar-23       | HAZEN AND SAWYER                              | 1,890.00          | IRWD Wells Fargo Check No Print | Reconciled |
| 434806                   | 23-Mar-23       | HDR ENGINEERING INC                           | 16,825.25         | IRWD Wells Fargo Check No Print | Reconciled |
| 434807                   | 23-Mar-23       | HELPMATES STAFFING SERVICES LLC               | 7,040.40          | IRWD Wells Fargo Check No Print | Reconciled |
| 434808                   | 23-Mar-23       | HI-LINE INC                                   | 360.27            | IRWD Wells Fargo Check No Print | Reconciled |
| 434809                   | 23-Mar-23       | HOME DEPOT USA INC                            | 1,816.08          | IRWD Wells Fargo Check No Print | Reconciled |
| 434810                   | 23-Mar-23       | HOME DEPOT USA INC                            | 2,264.54          | IRWD Wells Fargo Check No Print | Reconciled |
| 434811                   | 23-Mar-23       | INDUSTRIAL METAL SUPPLY CO                    | 199.29            | IRWD Wells Fargo Check No Print | Reconciled |
| 434812                   | 23-Mar-23       | INFOSEND, INC.                                | 53,862.56         | IRWD Wells Fargo Check No Print | Reconciled |
| 434813                   | 23-Mar-23       | INORGANIC VENTURES INC                        | 1,286.15          | IRWD Wells Fargo Check No Print | Reconciled |
| 434814                   | 23-Mar-23       | IRVINE PACIFIC                                | 65.29             | IRWD Wells Fargo Check No Print | Reconciled |
| 434815                   | 23-Mar-23       | JACK DOHENY COMPANIES INC                     | 4,028.52          | IRWD Wells Fargo Check No Print | Reconciled |
| 434816                   | 23-Mar-23       | JAMES RICHTERS                                | 6,450.00          | IRWD Wells Fargo Check No Print | Reconciled |
| 434817                   | 23-Mar-23       | JUST ENERGY SOLUTIONS INC.                    | 130.61            | IRWD Wells Fargo Check No Print | Reconciled |
| 434818                   | 23-Mar-23       | KIMBALL MIDWEST                               | 9,241.18          | IRWD Wells Fargo Check No Print | Reconciled |
| 434819                   | 23-Mar-23       | LANDCARE HOLDINGS, INC.                       | 1,180.00          | IRWD Wells Fargo Check No Print | Reconciled |
| 434820                   | 23-Mar-23       | LEE & RO, INC.                                | 19,782.83         | IRWD Wells Fargo Check No Print | Reconciled |
| 434821                   | 23-Mar-23       | LEE, CHENG-JUNG RHONDA                        | 97.92             | IRWD Wells Fargo Check No Print | Reconciled |
| 434822                   | 23-Mar-23       | LEITHARDT, DONNA                              | 60.97             | IRWD Wells Fargo Check No Print | Reconciled |
| 434823                   | 23-Mar-23       | LILLESTRAND LEADERSHIP CONSULTING, INC.       | 18,465.00         | IRWD Wells Fargo Check No Print | Reconciled |
| 434824                   | 23-Mar-23       | LINDSEY TEAL THOMSON                          | 14,350.00         | IRWD Wells Fargo Check No Print | Reconciled |
| 434825                   | 23-Mar-23       | LOS OLIVOS APARTMENTS                         | 233.96            | IRWD Wells Fargo Check No Print | Negotiable |
| 434826                   | 23-Mar-23       | LOZANO SMITH, LLP                             | 5,050.50          | IRWD Wells Fargo Check No Print | Reconciled |
| 434827                   | 23-Mar-23       | MBC AQUATIC SCIENCES, INC.                    | 1,400.00          | IRWD Wells Fargo Check No Print | Reconciled |
| 434828                   | 23-Mar-23       | MC FADDEN-DALE INDUSTRIAL                     | 98.83             | IRWD Wells Fargo Check No Print | Reconciled |
| 434829                   | 23-Mar-23       | MC MASTER CARR SUPPLY CO                      | 177.83            | IRWD Wells Fargo Check No Print | Reconciled |



**IRVINE RANCH WATER DISTRICT  
AP DISBURSEMENTS AND VOIDS FOR MARCH 2023**

| <b>CHECK OR<br/>ELECTRONIC #</b> | <b>PAYMENT<br/>DATE</b> | <b>SUPPLIERS</b>                                       | <b>PAYMENT<br/>AMOUNT</b> | <b>PAYMENT METHOD</b>           | <b>STATUS</b> |
|----------------------------------|-------------------------|--|---------------------------|---------------------------------|---------------|
| 434830                           | 23-Mar-23               | MCCALL'S METERS, INC.                                  | 1,071.85                  | IRWD Wells Fargo Check No Print | Negotiable    |
| 434831                           | 23-Mar-23               | MESA INTERNATIONAL TECHNOLOGIES, INC.                  | 398.68                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434832                           | 23-Mar-23               | METTLER-TOLEDO RAININ, LLC                             | 3,876.43                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434833                           | 23-Mar-23               | MILES CHEMICAL COMPANY, INC.                           | 9,565.57                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434834                           | 23-Mar-23               | MSC INDUSTRIAL SUPPLY CO                               | 370.80                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434835                           | 23-Mar-23               | MUTUAL PROPANE   | 270.69                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434836                           | 23-Mar-23               | NEW DIMENSION GENERAL CONSTRUCTION                     | 9,851.99                  | IRWD Wells Fargo Check No Print | Negotiable    |
| 434837                           | 23-Mar-23               | NINYO & MOORE  | 13,962.00                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434838                           | 23-Mar-23               | NMG GEOTECHNICAL INC                                   | 16,425.30                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434839                           | 23-Mar-23               | NORIMA CONSULTING US                                   | 9,990.00                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434840                           | 23-Mar-23               | OMEGA INDUSTRIAL SUPPLY, INC.                          | 149.15                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434841                           | 23-Mar-23               | ONESOURCE DISTRIBUTORS LLC                             | 4,858.09                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434842                           | 23-Mar-23               | ORACLE AMERICA, INC.                                   | 3,546.72                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434843                           | 23-Mar-23               | ORANGE COUNTY TREASURER                                | 496.00                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434844                           | 23-Mar-23               | PARTNERS IN CONTROL, INC.                              | 6,944.20                  | IRWD Wells Fargo Check No Print | Negotiable    |
| 434845                           | 23-Mar-23               | PAYMENTUS CORPORATION                                  | 66,552.59                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434846                           | 23-Mar-23               | PINNACLE TOWERS LLC                                    | 876.47                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434847                           | 23-Mar-23               | POLLARDWATER.COM                                       | 3,821.35                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434848                           | 23-Mar-23               | POTENZA, ALISON  | 36.72                     | IRWD Wells Fargo Check No Print | Reconciled    |
| 434849                           | 23-Mar-23               | PRIDEMARK CONTRACTORS                                  | 916.27                    | IRWD Wells Fargo Check No Print | Negotiable    |
| 434850                           | 23-Mar-23               | PROJECT PARTNERS LLC                                   | 2,400.00                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434851                           | 23-Mar-23               | PULTE GROUP  | 22.31                     | IRWD Wells Fargo Check No Print | Negotiable    |
| 434852                           | 23-Mar-23               | REAL WATER CONSULTANTS INC.                            | 8,769.00                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434853                           | 23-Mar-23               | RED WING SHOE STORE                                    | 169.70                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434854                           | 23-Mar-23               | RF VALVES, INC.  | 212.00                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434855                           | 23-Mar-23               | ROSEMOUNT INC.   | 2,177.78                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434856                           | 23-Mar-23               | RS HUGHES COMPANY, INC.                                | 258.86                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434857                           | 23-Mar-23               | SAFETY-KLEEN SYSTEMS, INC                              | 317.50                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434858                           | 23-Mar-23               | SANTA MARGARITA FORD                                   | 1,330.20                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434859                           | 23-Mar-23               | SCHLOM, KRISTEN  | 70.53                     | IRWD Wells Fargo Check No Print | Reconciled    |
| 434860                           | 23-Mar-23               | SCIENTIFIC REFRIGERATION                               | 2,022.00                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434861                           | 23-Mar-23               | SHAMROCK SUPPLY CO INC                                 | 7,268.02                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434862                           | 23-Mar-23               | SHEA HOMES LIMITED PARTNERSHIP                         | 5,928.20                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434863                           | 23-Mar-23               | SHON, BARBARA  | 289.96                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434864                           | 23-Mar-23               | SIEMENS INDUSTRY INC                                   | 4,913.40                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434865                           | 23-Mar-23               | SIGNATURE FLOORING, INC                                | 10,849.00                 | IRWD Wells Fargo Check No Print | Negotiable    |
| 434866                           | 23-Mar-23               | SMOG TIME  | 73.25                     | IRWD Wells Fargo Check No Print | Negotiable    |
| 434867                           | 23-Mar-23               | SMOKETREE IRVINE HOA C/O AMBER PROPERTY MANAGEMENT     | 559.00                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434868                           | 23-Mar-23               | SOUTH COAST BOBCAT                                     | 188.95                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434869                           | 23-Mar-23               | SOUTHERN CALIFORNIA EDISON COMPANY                     | 45,108.60                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434870                           | 23-Mar-23               | SOUTHERN CALIFORNIA EDISON COMPANY                     | 6,525.00                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434871                           | 23-Mar-23               | SOUTHERN CALIFORNIA GAS COMPANY                        | 33,950.85                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434872                           | 23-Mar-23               | SOUTHERN COUNTIES LUBRICANTS LLC                       | 1,192.09                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434873                           | 23-Mar-23               | SOUTHWESTERN INDUSTRIES, INC.                          | 2,517.00                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434874                           | 23-Mar-23               | STANFORD COURT APARTMENTS                              | 188.30                    | IRWD Wells Fargo Check No Print | Negotiable    |
| 434875                           | 23-Mar-23               | STAVREV, IORDAN  | 110.10                    | IRWD Wells Fargo Check No Print | Negotiable    |
| 434876                           | 23-Mar-23               | STRADLING YOCCA CARLSON & RAUTH                        | 700.00                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434877                           | 23-Mar-23               | TAIT ENVIRONMENTAL SERVICES, INC.                      | 782.50                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434878                           | 23-Mar-23               | TAYLOR MORRISON OF CALIFORNIA, LLC                     | 802.59                    | IRWD Wells Fargo Check No Print | Negotiable    |
| 434879                           | 23-Mar-23               | THOMAS HARDER & CO                                     | 1,192.50                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434880                           | 23-Mar-23               | THOMAS SCIENTIFIC HOLDINGS, LLC                        | 186.67                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434881                           | 23-Mar-23               | TIC-IHC VENTURE LLC                                    | 224.85                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434882                           | 23-Mar-23               | TIC-IPG-COMMON   | 302.34                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434883                           | 23-Mar-23               | TIC-RESORT PROPERTIES                                  | 42.22                     | IRWD Wells Fargo Check No Print | Reconciled    |
| 434884                           | 23-Mar-23               | TIC-SPECTRUM OFFICE                                    | 260.25                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434885                           | 23-Mar-23               | TINOSI, INC  | 1,305.00                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434886                           | 23-Mar-23               | TOM'S TRUCK CENTER NORTH COUNTY, LLC                   | 73,921.57                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434887                           | 23-Mar-23               | TRAFFIC CONTROL ENGINEERING, INC                       | 18,000.00                 | IRWD Wells Fargo Check No Print | Negotiable    |
| 434888                           | 23-Mar-23               | TUTTLE-CLICK FORD LINCOLN                              | 56,730.37                 | IRWD Wells Fargo Check No Print | Negotiable    |
| 434889                           | 23-Mar-23               | TUTTLE-CLICK TUSTIN INC                                | 133.89                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434890                           | 23-Mar-23               | ULAS, JOLANTA  | 300.00                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434891                           | 23-Mar-23               | ULINE INC  | 442.68                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434892                           | 23-Mar-23               | UNITED PARCEL SERVICE INC                              | 43.25                     | IRWD Wells Fargo Check No Print | Reconciled    |
| 434893                           | 23-Mar-23               | UNITED SITE SERVICES OF CALIFORNIA INC                 | 291.82                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434894                           | 23-Mar-23               | UNIVAR SOLUTIONS USA INC.                              | 11,621.20                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434895                           | 23-Mar-23               | URBAN ECOLOGY STUDIO INC.                              | 150.00                    | IRWD Wells Fargo Check No Print | Negotiable    |
| 434896                           | 23-Mar-23               | V&A CONSULTING ENGINEERS                               | 56,684.93                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434897                           | 23-Mar-23               | VAZIRIAN, JOHN   | 5.21                      | IRWD Wells Fargo Check No Print | Reconciled    |
| 434898                           | 23-Mar-23               | VEOLIA WATER TECHNOLOGIES TREATMENT SOLUTIONS USA INC. | 6,133.38                  | IRWD Wells Fargo Check No Print | Negotiable    |
| 434899                           | 23-Mar-23               | VULCAN INDUSTRIES INC                                  | 178.63                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434900                           | 23-Mar-23               | VWR INTERNATIONAL, LLC                                 | 580.21                    | IRWD Wells Fargo Check No Print | Reconciled    |

**IRVINE RANCH WATER DISTRICT  
AP DISBURSEMENTS AND VOIDS FOR MARCH 2023**

| <b>CHECK OR<br/>ELECTRONIC #</b> | <b>PAYMENT<br/>DATE</b> | <b>SUPPLIERS</b>  | <b>PAYMENT<br/>AMOUNT</b> | <b>PAYMENT METHOD</b>           | <b>STATUS</b> |
|----------------------------------|-------------------------|---|---------------------------|---------------------------------|---------------|
| 434901                           | 23-Mar-23               | WARD, WILLIAM P JR.                                       | 693.14                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434902                           | 23-Mar-23               | WATERLINE TECHNOLOGIES INC                                | 5,420.00                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434903                           | 23-Mar-23               | WAXIE'S ENTERPRISES, INC                                  | 894.63                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434904                           | 23-Mar-23               | WEST COAST SAND & GRAVEL INC.                             | 2,095.37                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434905                           | 23-Mar-23               | WEST YOST & ASSOCIATES, INC.                              | 20,047.00                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434906                           | 23-Mar-23               | WIENHOFF & ASSOCIATES, INC                                | 170.00                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434907                           | 23-Mar-23               | ZAMORA, STEVEN  | 49.67                     | IRWD Wells Fargo Check No Print | Reconciled    |
| 434908                           | 23-Mar-23               | ALTON KEITH LYNN  | 347.00                    | IRWD Wells Fargo Check          | Negotiable    |
| 434909                           | 23-Mar-23               | CALIFORNIA DEPARTMENT OF TAX AND FEE ADMINISTRATION       | 76.33                     | IRWD Wells Fargo Check          | Reconciled    |
| 434910                           | 23-Mar-23               | CALIFORNIA DEPARTMENT OF TAX AND FEE ADMINISTRATION       | 2,014.00                  | IRWD Wells Fargo Check          | Reconciled    |
| 434911                           | 23-Mar-23               | Chaney, David (Dave)                                      | 302.00                    | IRWD Wells Fargo Check          | Reconciled    |
| 434912                           | 23-Mar-23               | Compton, Christine A                                      | 96.13                     | IRWD Wells Fargo Check          | Negotiable    |
| 434913                           | 23-Mar-23               | ENTERPRISE HOLDINGS, INC.                                 | 17,225.00                 | IRWD Wells Fargo Check          | Reconciled    |
| 434914                           | 23-Mar-23               | Giatpaiboon, Scott  | 43.30                     | IRWD Wells Fargo Check          | Reconciled    |
| 434915                           | 23-Mar-23               | HARTFORD LIFE AND ACCIDENT INSURANCE COMPANY              | 50.88                     | IRWD Wells Fargo Check          | Reconciled    |
| 434916                           | 23-Mar-23               | IRWD-PETTY CASH CUSTODIAN                                 | 967.09                    | IRWD Wells Fargo Check          | Reconciled    |
| 434917                           | 23-Mar-23               | Jones, Morgan   | 105.00                    | IRWD Wells Fargo Check          | Reconciled    |
| 434918                           | 23-Mar-23               | McBride, Damien J   | 200.00                    | IRWD Wells Fargo Check          | Negotiable    |
| 434919                           | 23-Mar-23               | McGhee, Joseph M (Joe)                                    | 180.00                    | IRWD Wells Fargo Check          | Reconciled    |
| 434920                           | 23-Mar-23               | Prewoznik, Frank  | 12.97                     | IRWD Wells Fargo Check          | Reconciled    |
| 434921                           | 23-Mar-23               | Rios, Belisario   | 180.00                    | IRWD Wells Fargo Check          | Negotiable    |
| 434922                           | 23-Mar-23               | Saini, Mohit  | 738.35                    | IRWD Wells Fargo Check          | Reconciled    |
| 434923                           | 23-Mar-23               | Zamora, Victor A  | 324.58                    | IRWD Wells Fargo Check          | Reconciled    |
| 434924                           | 27-Mar-23               | INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS LOCAL 47  | 5,723.71                  | IRWD Wells Fargo Check          | Reconciled    |
| 434925                           | 27-Mar-23               | PERS LONG TERM CARE                                       | 716.23                    | IRWD Wells Fargo Check          | Reconciled    |
| 434926                           | 30-Mar-23               | A-L TIER II, LLC  | 15,000.00                 | IRWD Wells Fargo Check No Print | Negotiable    |
| 434927                           | 30-Mar-23               | AIRGAS, INC.  | 288.39                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434928                           | 30-Mar-23               | ALAN SMITH POOL PLASTERING, INC                           | 1,364.10                  | IRWD Wells Fargo Check No Print | Negotiable    |
| 434929                           | 30-Mar-23               | AMAZON CAPITAL SERVICES, INC.                             | 11,237.14                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434930                           | 30-Mar-23               | AQUA WAVE SWIM SCHOOL                                     | 1,604.97                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434931                           | 30-Mar-23               | AT&T CORP   | 116.18                    | IRWD Wells Fargo Check No Print | Negotiable    |
| 434932                           | 30-Mar-23               | AT&T CORP   | 204.14                    | IRWD Wells Fargo Check No Print | Negotiable    |
| 434933                           | 30-Mar-23               | AT&T CORP   | 61.50                     | IRWD Wells Fargo Check No Print | Negotiable    |
| 434934                           | 30-Mar-23               | AUTOZONE PARTS, INC.                                      | 248.68                    | IRWD Wells Fargo Check No Print | Negotiable    |
| 434935                           | 30-Mar-23               | BAVCO BACKFLOW APPARATUS & VALVE COMPANY                  | 115.00                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434936                           | 30-Mar-23               | BLUERAY MANAGEMENT  | 1,277.07                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434937                           | 30-Mar-23               | BORCHARD SURVEYING & MAPPING, INC.                        | 1,830.00                  | IRWD Wells Fargo Check No Print | Negotiable    |
| 434938                           | 30-Mar-23               | BROOKFIELD RESIDENTIAL                                    | 1,950.50                  | IRWD Wells Fargo Check No Print | Negotiable    |
| 434939                           | 30-Mar-23               | C WELLS PIPELINE MATERIALS INC                            | 4,103.12                  | IRWD Wells Fargo Check No Print | Negotiable    |
| 434940                           | 30-Mar-23               | CALIFORNIA BANK & TRUST                                   | 40,895.84                 | IRWD Wells Fargo Check No Print | Negotiable    |
| 434941                           | 30-Mar-23               | CALIFORNIA COMMERCIAL POOLS INC                           | 450.25                    | IRWD Wells Fargo Check No Print | Negotiable    |
| 434942                           | 30-Mar-23               | CALIFORNIA COUNCIL FOR ENVIRONMENTAL AND ECONOMIC BALANCE | 13,750.00                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434943                           | 30-Mar-23               | CALIFORNIA MUNICIPAL UTILITIES ASSOCIATION                | 20,000.00                 | IRWD Wells Fargo Check No Print | Negotiable    |
| 434944                           | 30-Mar-23               | CALIFORNIA STATE UNIVERSITY, FULLERTON                    | 3,136.00                  | IRWD Wells Fargo Check No Print | Negotiable    |
| 434945                           | 30-Mar-23               | CHEM TECH INTERNATIONAL INC                               | 2,730.75                  | IRWD Wells Fargo Check No Print | Negotiable    |
| 434946                           | 30-Mar-23               | CIMARRON ENERGY, INC                                      | 23,795.52                 | IRWD Wells Fargo Check No Print | Negotiable    |
| 434947                           | 30-Mar-23               | CITY OF NEWPORT BEACH                                     | 232.36                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434948                           | 30-Mar-23               | CLARK & SONS CONTRACTING CORP.                            | 1,437.65                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434949                           | 30-Mar-23               | CONSTELLATION NEWENERGY, INC.                             | 6,202.68                  | IRWD Wells Fargo Check No Print | Negotiable    |
| 434950                           | 30-Mar-23               | COX COMMUNICATIONS, INC.                                  | 3,489.93                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434951                           | 30-Mar-23               | D & H WATER SYSTEMS INC.                                  | 3,195.58                  | IRWD Wells Fargo Check No Print | Negotiable    |
| 434952                           | 30-Mar-23               | DIRECTV INC   | 152.99                    | IRWD Wells Fargo Check No Print | Negotiable    |
| 434953                           | 30-Mar-23               | E.J. MEYER COMPANY  | 6,484.88                  | IRWD Wells Fargo Check No Print | Negotiable    |
| 434954                           | 30-Mar-23               | EAGLE PRINT DYNAMICS                                      | 964.05                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434955                           | 30-Mar-23               | EAST ORANGE COUNTY WATER DISTRICT                         | 1,994.80                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434956                           | 30-Mar-23               | ECO SERVICES LLC  | 6,358.31                  | IRWD Wells Fargo Check No Print | Negotiable    |
| 434957                           | 30-Mar-23               | EMERSON MAINTENANCE ASSOCIATION                           | 294.48                    | IRWD Wells Fargo Check No Print | Negotiable    |
| 434958                           | 30-Mar-23               | ENVIRONMENTAL EXPRESS INC                                 | 2,996.74                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434959                           | 30-Mar-23               | FARRELL & ASSOCIATES                                      | 109.23                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434960                           | 30-Mar-23               | FARWEST CORROSION CONTROL COMPANY                         | 212.13                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434961                           | 30-Mar-23               | FEDEX   | 931.45                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434962                           | 30-Mar-23               | FELIX, PEPPER   | 310.33                    | IRWD Wells Fargo Check No Print | Negotiable    |
| 434963                           | 30-Mar-23               | FELKER INDUSTRIES INC.                                    | 4,808.94                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434964                           | 30-Mar-23               | FIRE EXTINGUISHING SAFETY & SERVICE                       | 651.44                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434965                           | 30-Mar-23               | FIRST CHOICE SERVICES                                     | 3,041.97                  | IRWD Wells Fargo Check No Print | Negotiable    |
| 434966                           | 30-Mar-23               | FISHER SCIENTIFIC COMPANY LLC                             | 8,220.86                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434967                           | 30-Mar-23               | FRONTIER CALIFORNIA INC.                                  | 404.50                    | IRWD Wells Fargo Check No Print | Negotiable    |
| 434968                           | 30-Mar-23               | GARY BALE REDI-MIX CONCRETE, INC.                         | 575.39                    | IRWD Wells Fargo Check No Print | Negotiable    |
| 434969                           | 30-Mar-23               | GOLLY, DAN  | 456.32                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434970                           | 30-Mar-23               | GRAINGER  | 6,592.89                  | IRWD Wells Fargo Check No Print | Negotiable    |
| 434971                           | 30-Mar-23               | HACH COMPANY  | 1,093.18                  | IRWD Wells Fargo Check No Print | Negotiable    |

**IRVINE RANCH WATER DISTRICT  
AP DISBURSEMENTS AND VOIDS FOR MARCH 2023**

| <b>CHECK OR<br/>ELECTRONIC #</b> | <b>PAYMENT<br/>DATE</b> | <b>SUPPLIERS</b>                                   | <b>PAYMENT<br/>AMOUNT</b> | <b>PAYMENT METHOD</b>           | <b>STATUS</b> |
|----------------------------------|-------------------------|--|---------------------------|---------------------------------|---------------|
| 434972                           | 30-Mar-23               | HENKELS & MCCOY, INC.                              | 1,665.49                  | IRWD Wells Fargo Check No Print | Negotiable    |
| 434973                           | 30-Mar-23               | HI-LINE INC  | 792.74                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434974                           | 30-Mar-23               | HOME DEPOT USA INC                                 | 192.87                    | IRWD Wells Fargo Check No Print | Negotiable    |
| 434975                           | 30-Mar-23               | HOME DEPOT USA INC                                 | 45.13                     | IRWD Wells Fargo Check No Print | Negotiable    |
| 434976                           | 30-Mar-23               | HOME DEPOT USA INC                                 | 1,262.05                  | IRWD Wells Fargo Check No Print | Negotiable    |
| 434977                           | 30-Mar-23               | INNOVATIVE CONSTRUCTION SOLUTIONS                  | 48,993.70                 | IRWD Wells Fargo Check No Print | Reconciled    |
| 434978                           | 30-Mar-23               | INTERPRO SOLUTIONS, LLC.                           | 9,800.00                  | IRWD Wells Fargo Check No Print | Negotiable    |
| 434979                           | 30-Mar-23               | IRVINE COMPANY APARTMENT DEVELOPMENT               | 1,512.65                  | IRWD Wells Fargo Check No Print | Negotiable    |
| 434980                           | 30-Mar-23               | JOHNSON PLASTICS                                   | 565.99                    | IRWD Wells Fargo Check No Print | Negotiable    |
| 434981                           | 30-Mar-23               | KAESER COMPRESSORS, INC.                           | 967.00                    | IRWD Wells Fargo Check No Print | Negotiable    |
| 434982                           | 30-Mar-23               | LANDCARE HOLDINGS, INC.                            | 4,271.10                  | IRWD Wells Fargo Check No Print | Negotiable    |
| 434983                           | 30-Mar-23               | LAPLANTE, LINDA                                    | 252.99                    | IRWD Wells Fargo Check No Print | Negotiable    |
| 434984                           | 30-Mar-23               | LEE & RO, INC.                                     | 40,903.00                 | IRWD Wells Fargo Check No Print | Negotiable    |
| 434985                           | 30-Mar-23               | LINDE GAS & EQUIPMENT INC.                         | 1,736.90                  | IRWD Wells Fargo Check No Print | Negotiable    |
| 434986                           | 30-Mar-23               | MC FADDEN-DALE INDUSTRIAL                          | 838.08                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434987                           | 30-Mar-23               | MCM CONSTRUCTION                                   | 1,572.75                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434988                           | 30-Mar-23               | MDT INC  | 23,899.00                 | IRWD Wells Fargo Check No Print | Negotiable    |
| 434989                           | 30-Mar-23               | MILES CHEMICAL COMPANY, INC.                       | 9,103.32                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434990                           | 30-Mar-23               | NATIONAL READY MIXED CONCRETE SALES, LLC           | 791.97                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 434991                           | 30-Mar-23               | NATURES IMAGE INC                                  | 1,530.44                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434992                           | 30-Mar-23               | NETWORK INTEGRATION COMPANY PARTNERS               | 21,755.47                 | IRWD Wells Fargo Check No Print | Negotiable    |
| 434993                           | 30-Mar-23               | NEW DIMENSION GENERAL CONSTRUCTION                 | 29,750.00                 | IRWD Wells Fargo Check No Print | Negotiable    |
| 434994                           | 30-Mar-23               | OATMAN ARCHITECTS, INC.                            | 1,635.00                  | IRWD Wells Fargo Check No Print | Negotiable    |
| 434995                           | 30-Mar-23               | ONESOURCE DISTRIBUTORS LLC                         | 1,142.06                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434996                           | 30-Mar-23               | ONYX PAVING CO INC                                 | 1,514.44                  | IRWD Wells Fargo Check No Print | Negotiable    |
| 434997                           | 30-Mar-23               | PACIFIC COAST BOLT CORP                            | 176.14                    | IRWD Wells Fargo Check No Print | Negotiable    |
| 434998                           | 30-Mar-23               | PRES-TECH MANUFACTURERS' REPRESENTATIVES, INC.     | 1,996.50                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 434999                           | 30-Mar-23               | PRIDER, IAN  | 188.58                    | IRWD Wells Fargo Check No Print | Negotiable    |
| 435000                           | 30-Mar-23               | PURE EFFECT INC                                    | 10,228.90                 | IRWD Wells Fargo Check No Print | Negotiable    |
| 435001                           | 30-Mar-23               | PURE PROCESS FILTRATION INC                        | 66,298.00                 | IRWD Wells Fargo Check No Print | Negotiable    |
| 435002                           | 30-Mar-23               | QUADIENT FINANCE USA, INC.                         | 1,000.00                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 435003                           | 30-Mar-23               | R C FOSTER CORPORATION                             | 187,815.00                | IRWD Wells Fargo Check No Print | Negotiable    |
| 435004                           | 30-Mar-23               | R&B AUTOMATION, INC.                               | 7,082.50                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 435005                           | 30-Mar-23               | R.F. MACDONALD CO.                                 | 800.00                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 435006                           | 30-Mar-23               | R.J. NOBLE COMPANY                                 | 1,384.67                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 435007                           | 30-Mar-23               | RED WING SHOE STORE                                | 225.00                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 435008                           | 30-Mar-23               | RELO REDAC, INC.                                   | 21.00                     | IRWD Wells Fargo Check No Print | Negotiable    |
| 435009                           | 30-Mar-23               | RENTOKIL NORTH AMERICA, INC                        | 2,242.65                  | IRWD Wells Fargo Check No Print | Negotiable    |
| 435010                           | 30-Mar-23               | RS HUGHES COMPANY, INC.                            | 157.49                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 435011                           | 30-Mar-23               | S-I INTERMEDIATE HOLDINGS, INC.                    | 1,852.80                  | IRWD Wells Fargo Check No Print | Negotiable    |
| 435012                           | 30-Mar-23               | SERVERSUPPLY.COM INC                               | 908.12                    | IRWD Wells Fargo Check No Print | Negotiable    |
| 435013                           | 30-Mar-23               | SHADOW AUTO LLC                                    | 70.00                     | IRWD Wells Fargo Check No Print | Negotiable    |
| 435014                           | 30-Mar-23               | SHEA HOMES LIMITED PARTNERSHIP                     | 1,582.79                  | IRWD Wells Fargo Check No Print | Negotiable    |
| 435015                           | 30-Mar-23               | SHEN, JOHN   | 592.27                    | IRWD Wells Fargo Check No Print | Negotiable    |
| 435016                           | 30-Mar-23               | SMOG TIME  | 366.00                    | IRWD Wells Fargo Check No Print | Negotiable    |
| 435017                           | 30-Mar-23               | SOUTHERN CALIFORNIA EDISON COMPANY                 | 385,839.48                | IRWD Wells Fargo Check No Print | Negotiable    |
| 435018                           | 30-Mar-23               | SOUTHERN CALIFORNIA GAS COMPANY                    | 8,833.54                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 435019                           | 30-Mar-23               | SPARKLETTS   | 406.24                    | IRWD Wells Fargo Check No Print | Negotiable    |
| 435020                           | 30-Mar-23               | STATE WATER RESOURCES CONTROL BOARD                | 1,958.00                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 435021                           | 30-Mar-23               | STRADLING YOCCA CARLSON & RAUTH                    | 224.00                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 435022                           | 30-Mar-23               | SUZANNA CHOI                                       | 5,000.00                  | IRWD Wells Fargo Check No Print | Negotiable    |
| 435023                           | 30-Mar-23               | TAN, GAIA L  | 47.38                     | IRWD Wells Fargo Check No Print | Negotiable    |
| 435024                           | 30-Mar-23               | TRIPAC MARKETING INC                               | 604.29                    | IRWD Wells Fargo Check No Print | Negotiable    |
| 435025                           | 30-Mar-23               | ULINE INC  | 1,069.02                  | IRWD Wells Fargo Check No Print | Negotiable    |
| 435026                           | 30-Mar-23               | UNITED PARCEL SERVICE INC                          | 46.70                     | IRWD Wells Fargo Check No Print | Reconciled    |
| 435027                           | 30-Mar-23               | US BANK NAT'L ASSOCIATION NORTH DAKOTA             | 52,865.73                 | IRWD Wells Fargo Check No Print | Negotiable    |
| 435028                           | 30-Mar-23               | USA BLUEBOOK                                       | 1,384.10                  | IRWD Wells Fargo Check No Print | Negotiable    |
| 435029                           | 30-Mar-23               | VAN WYK, ERNST                                     | 327.88                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 435030                           | 30-Mar-23               | VERIZON WIRELESS SERVICES LLC                      | 15,595.54                 | IRWD Wells Fargo Check No Print | Negotiable    |
| 435031                           | 30-Mar-23               | VULCAN MATERIALS COMPANY                           | 2,704.99                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 435032                           | 30-Mar-23               | WAXIE'S ENTERPRISES, INC                           | 1,029.99                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 435033                           | 30-Mar-23               | WEST COAST SAND & GRAVEL INC.                      | 2,579.73                  | IRWD Wells Fargo Check No Print | Reconciled    |
| 435034                           | 30-Mar-23               | WESTERN NATIONAL BUILDERS                          | 2,909.10                  | IRWD Wells Fargo Check No Print | Negotiable    |
| 435035                           | 30-Mar-23               | WIENHOFF & ASSOCIATES, INC                         | 5,015.00                  | IRWD Wells Fargo Check No Print | Negotiable    |
| 435036                           | 30-Mar-23               | ZENS, JOHN   | 409.37                    | IRWD Wells Fargo Check No Print | Reconciled    |
| 435037                           | 30-Mar-23               | AMERICAN FAMILY LIFE ASSURANCE COMPANY OF COLUMBUS | 3,403.18                  | IRWD Wells Fargo Check          | Reconciled    |
| 435038                           | 30-Mar-23               | COLONIAL LIFE & ACCIDENT INSURANCE CO.             | 652.98                    | IRWD Wells Fargo Check          | Negotiable    |
| 435039                           | 30-Mar-23               | Davis, Jennifer R (Jennifer)                       | 745.99                    | IRWD Wells Fargo Check          | Negotiable    |
| 435040                           | 30-Mar-23               | Giatpaaboon, Scott                                 | 1,883.34                  | IRWD Wells Fargo Check          | Reconciled    |
| 435041                           | 30-Mar-23               | IRWD-PETTY CASH CUSTODIAN                          | 834.13                    | IRWD Wells Fargo Check          | Reconciled    |
| 435042                           | 30-Mar-23               | Rendon, Esteban J                                  | 200.00                    | IRWD Wells Fargo Check          | Reconciled    |

**IRVINE RANCH WATER DISTRICT  
AP DISBURSEMENTS AND VOIDS FOR MARCH 2023**

| CHECK OR<br>ELECTRONIC #  | PAYMENT<br>DATE | SUPPLIERS   | PAYMENT<br>AMOUNT    | PAYMENT METHOD         | STATUS     |
|---|-----------------|---|----------------------|------------------------|------------|
| 435043  | 30-Mar-23       | Vu, Johnny T (Johnny)                               | 200.00               | IRWD Wells Fargo Check | Negotiable |
| 435044  | 31-Mar-23       | COLONIAL LIFE & ACCIDENT INSURANCE CO.              | 652.98               | IRWD Wells Fargo Check | Negotiable |
| 435045  | 31-Mar-23       | Compton, Christine A                                | 90.40                | IRWD Wells Fargo Check | Negotiable |
| 435046  | 31-Mar-23       | Kanoff, Debbie G (Debbie)                           | 112.83               | IRWD Wells Fargo Check | Negotiable |
| <b>SUB-TOTAL IRWD WELLS FARGO CHECK AND IRWD WELLS FARGO CHECK NO PRINT DISBURSEMENTS</b> |                 |   | <b>11,059,063.10</b> |                        |            |
| 1000502   | 2-Mar-23        | ORANGE COUNTY SANITATION DISTRICT                   | 125,607.11           | IRWD Wells Fargo ACH   | Reconciled |
| 1000503   | 2-Mar-23        | ADAM'S FALCONRY SERVICE, LLC                        | 3,900.00             | IRWD Wells Fargo ACH   | Reconciled |
| 1000504   | 2-Mar-23        | AECOM TECHNICAL SERVICES, INC.                      | 33,190.00            | IRWD Wells Fargo ACH   | Reconciled |
| 1000505   | 2-Mar-23        | CALIFORNIA BARRICADE RENTAL, INC.                   | 7,915.00             | IRWD Wells Fargo ACH   | Reconciled |
| 1000506   | 2-Mar-23        | CAREERS IN GOVERNMENT, INC.                         | 3,078.00             | IRWD Wells Fargo ACH   | Reconciled |
| 1000507   | 2-Mar-23        | CITY OF IRVINE                                      | 55,533.80            | IRWD Wells Fargo ACH   | Reconciled |
| 1000508   | 2-Mar-23        | CITY OF IRVINE                                      | 4,743.71             | IRWD Wells Fargo ACH   | Reconciled |
| 1000509   | 2-Mar-23        | COTTONS POINT DESIGN, INC.                          | 1,651.51             | IRWD Wells Fargo ACH   | Reconciled |
| 1000510   | 2-Mar-23        | DRAKE TRAFFIC CONTROL SERVICES INC                  | 3,675.00             | IRWD Wells Fargo ACH   | Reconciled |
| 1000511   | 2-Mar-23        | EHS INTERNATIONAL, INC                              | 2,430.00             | IRWD Wells Fargo ACH   | Reconciled |
| 1000512   | 2-Mar-23        | ENVIRONMENTAL ENGINEERING AND CONTRACTING, INC.     | 22,087.50            | IRWD Wells Fargo ACH   | Reconciled |
| 1000513   | 2-Mar-23        | EUROFINS ENVIRONMENT TESTING AMERICA HOLDINGS, INC. | 1,534.50             | IRWD Wells Fargo ACH   | Reconciled |
| 1000514   | 2-Mar-23        | GANAHL LUMBER CO.                                   | 33.89                | IRWD Wells Fargo ACH   | Reconciled |
| 1000515   | 2-Mar-23        | HAAKER EQUIPMENT COMPANY                            | 2,968.95             | IRWD Wells Fargo ACH   | Reconciled |
| 1000516   | 2-Mar-23        | HILL BROTHERS CHEMICAL COMPANY                      | 19,986.46            | IRWD Wells Fargo ACH   | Reconciled |
| 1000517   | 2-Mar-23        | JCI JONES CHEMICALS INC                             | 14,059.60            | IRWD Wells Fargo ACH   | Reconciled |
| 1000518   | 2-Mar-23        | LA HABRA FENCE COMPANY INC                          | 1,831.00             | IRWD Wells Fargo ACH   | Reconciled |
| 1000519   | 2-Mar-23        | LCS TECHNOLOGIES, INC.                              | 2,025.00             | IRWD Wells Fargo ACH   | Reconciled |
| 1000520   | 2-Mar-23        | MARK ENTERPRISES TECHNOLOGIES LLC                   | 90,962.75            | IRWD Wells Fargo ACH   | Reconciled |
| 1000521   | 2-Mar-23        | MCR TECHNOLOGIES INC                                | 6,967.86             | IRWD Wells Fargo ACH   | Reconciled |
| 1000522   | 2-Mar-23        | NEWPORT WINDOW MAINTENANCE INC                      | 3,160.00             | IRWD Wells Fargo ACH   | Reconciled |
| 1000523   | 2-Mar-23        | O.C. SUPERIOR CUSTOM CLEANING                       | 920.00               | IRWD Wells Fargo ACH   | Reconciled |
| 1000524   | 2-Mar-23        | OLIN CORPORATION                                    | 10,536.80            | IRWD Wells Fargo ACH   | Reconciled |
| 1000525   | 2-Mar-23        | ORANGE COUNTY AUTO PARTS CO                         | 345.05               | IRWD Wells Fargo ACH   | Reconciled |
| 1000526   | 2-Mar-23        | PAULUS ENGINEERING, INC.                            | 72,881.85            | IRWD Wells Fargo ACH   | Reconciled |
| 1000527   | 2-Mar-23        | RAM AIR ENGINEERING INC                             | 4,750.00             | IRWD Wells Fargo ACH   | Reconciled |
| 1000528   | 2-Mar-23        | RINCON TRUCK CENTER INC.                            | 10,897.92            | IRWD Wells Fargo ACH   | Reconciled |
| 1000529   | 2-Mar-23        | RLG ENTERPRISES, INC                                | 701.61               | IRWD Wells Fargo ACH   | Reconciled |
| 1000530   | 2-Mar-23        | SUKLE ADVERTISING INC.                              | 3,000.00             | IRWD Wells Fargo ACH   | Reconciled |
| 1000531   | 2-Mar-23        | SUN-STAR ELECTRIC, INC.                             | 15,373.11            | IRWD Wells Fargo ACH   | Reconciled |
| 1000532   | 2-Mar-23        | TETRA TECH, INC                                     | 85,741.00            | IRWD Wells Fargo ACH   | Reconciled |
| 1000533   | 2-Mar-23        | TOTAL RESOURCE MANAGEMENT, INC                      | 95.00                | IRWD Wells Fargo ACH   | Reconciled |
| 1000534   | 2-Mar-23        | VSS SALES INC                                       | 2,201.55             | IRWD Wells Fargo ACH   | Reconciled |
| 1000535   | 2-Mar-23        | WEST COAST SAFETY SUPPLY INC                        | 10,715.76            | IRWD Wells Fargo ACH   | Reconciled |
| 1000536   | 2-Mar-23        | WESTAMERICA COMMUNICATIONS, INC.                    | 600.00               | IRWD Wells Fargo ACH   | Reconciled |
| 1000537   | 2-Mar-23        | WOODARD & CURRAN INC                                | 31,535.00            | IRWD Wells Fargo ACH   | Reconciled |
| 1000538   | 9-Mar-23        | ACE INDUSTRIES, INC.                                | 9,620.95             | IRWD Wells Fargo ACH   | Reconciled |
| 1000539   | 9-Mar-23        | ADAM'S FALCONRY SERVICE, LLC                        | 1,800.00             | IRWD Wells Fargo ACH   | Reconciled |
| 1000540   | 9-Mar-23        | ALEXANDER'S CONTRACT SERVICES, INC.                 | 133,345.86           | IRWD Wells Fargo ACH   | Reconciled |
| 1000541   | 9-Mar-23        | ALSTON & BIRD LLP                                   | 31,995.73            | IRWD Wells Fargo ACH   | Reconciled |
| 1000542   | 9-Mar-23        | CALIFORNIA BARRICADE RENTAL, INC.                   | 1,898.40             | IRWD Wells Fargo ACH   | Reconciled |
| 1000543   | 9-Mar-23        | CAROLLO ENGINEERS, INC                              | 74,906.59            | IRWD Wells Fargo ACH   | Reconciled |
| 1000544   | 9-Mar-23        | DAYTON CERTIFIED WELDING, INC.                      | 8,550.00             | IRWD Wells Fargo ACH   | Reconciled |
| 1000545   | 9-Mar-23        | DEMARIA ELECTRIC MOTOR SERVICES, INC.               | 19,450.09            | IRWD Wells Fargo ACH   | Reconciled |
| 1000546   | 9-Mar-23        | DRAKE TRAFFIC CONTROL SERVICES INC                  | 4,407.50             | IRWD Wells Fargo ACH   | Reconciled |
| 1000547   | 9-Mar-23        | E.J. MEYER COMPANY                                  | 600,974.38           | IRWD Wells Fargo ACH   | Reconciled |
| 1000548   | 9-Mar-23        | EHS INTERNATIONAL, INC                              | 2,355.00             | IRWD Wells Fargo ACH   | Reconciled |
| 1000549   | 9-Mar-23        | EUROFINS ENVIRONMENT TESTING AMERICA HOLDINGS, INC. | 2,693.25             | IRWD Wells Fargo ACH   | Reconciled |
| 1000550   | 9-Mar-23        | GANAHL LUMBER CO.                                   | 690.33               | IRWD Wells Fargo ACH   | Reconciled |
| 1000551   | 9-Mar-23        | HAAKER EQUIPMENT COMPANY                            | 2,931.31             | IRWD Wells Fargo ACH   | Reconciled |
| 1000552   | 9-Mar-23        | HANSON BRIDGETT LLP                                 | 153,836.46           | IRWD Wells Fargo ACH   | Reconciled |
| 1000553   | 9-Mar-23        | HILL BROTHERS CHEMICAL COMPANY                      | 20,188.77            | IRWD Wells Fargo ACH   | Reconciled |
| 1000554   | 9-Mar-23        | KRONICK MOSKOVITZ TIEDEMANN & GIRARD                | 114.00               | IRWD Wells Fargo ACH   | Reconciled |
| 1000555   | 9-Mar-23        | LAGUNA BEACH COUNTY WATER DISTRICT                  | 5,687.69             | IRWD Wells Fargo ACH   | Reconciled |
| 1000556   | 9-Mar-23        | MARK KADESH   | 10,506.00            | IRWD Wells Fargo ACH   | Reconciled |
| 1000557   | 9-Mar-23        | MERRIMAC PETROLEUM, INC.                            | 35,933.89            | IRWD Wells Fargo ACH   | Reconciled |
| 1000558   | 9-Mar-23        | NATURALWELL, LLC                                    | 1,127.50             | IRWD Wells Fargo ACH   | Reconciled |
| 1000559   | 9-Mar-23        | NV5, INC.   | 19,720.00            | IRWD Wells Fargo ACH   | Reconciled |
| 1000560   | 9-Mar-23        | O.C. SUPERIOR CUSTOM CLEANING                       | 4,652.00             | IRWD Wells Fargo ACH   | Reconciled |
| 1000561   | 9-Mar-23        | OLIN CORPORATION                                    | 77,076.41            | IRWD Wells Fargo ACH   | Reconciled |
| 1000562   | 9-Mar-23        | OLSON REMCHO LLP                                    | 509.00               | IRWD Wells Fargo ACH   | Reconciled |
| 1000563   | 9-Mar-23        | ORACLE APPLICATIONS USERS GROUP                     | 1,095.00             | IRWD Wells Fargo ACH   | Reconciled |
| 1000564   | 9-Mar-23        | ORANGE COUNTY AUTO PARTS CO                         | 1,972.84             | IRWD Wells Fargo ACH   | Reconciled |
| 1000565   | 9-Mar-23        | ORIGIN CONSULTING LLC                               | 7,652.50             | IRWD Wells Fargo ACH   | Reconciled |
| 1000566   | 9-Mar-23        | PACIFIC PARTS & CONTROLS INC                        | 1,908.41             | IRWD Wells Fargo ACH   | Reconciled |

**IRVINE RANCH WATER DISTRICT  
AP DISBURSEMENTS AND VOIDS FOR MARCH 2023**

| CHECK OR ELECTRONIC # | PAYMENT DATE | SUPPLIERS   | PAYMENT AMOUNT | PAYMENT METHOD       | STATUS     |
|-----------------------|--------------|---|----------------|----------------------|------------|
| 1000567               | 9-Mar-23     | PAPER DEPOT DOCUMENT DESTRUCTION LLC                | 330.00         | IRWD Wells Fargo ACH | Reconciled |
| 1000568               | 9-Mar-23     | PYRO-COMM SYSTEMS INC                               | 985.00         | IRWD Wells Fargo ACH | Reconciled |
| 1000569               | 9-Mar-23     | RAM AIR ENGINEERING INC                             | 12,768.01      | IRWD Wells Fargo ACH | Reconciled |
| 1000570               | 9-Mar-23     | RELIANCE STANDARD LIFE INSURANCE COMPANY            | 76,149.80      | IRWD Wells Fargo ACH | Reconciled |
| 1000571               | 9-Mar-23     | RINCON TRUCK CENTER INC.                            | 6,236.05       | IRWD Wells Fargo ACH | Reconciled |
| 1000572               | 9-Mar-23     | SI TESTING  | 3,475.00       | IRWD Wells Fargo ACH | Reconciled |
| 1000573               | 9-Mar-23     | SUNSHINE SUPPLY COMPANY, INC.                       | 960.19         | IRWD Wells Fargo ACH | Reconciled |
| 1000574               | 9-Mar-23     | TETRA TECH, INC                                     | 41,910.00      | IRWD Wells Fargo ACH | Reconciled |
| 1000575               | 9-Mar-23     | VERTECH INDUSTRIAL SYSTEMS, LLC                     | 915.00         | IRWD Wells Fargo ACH | Reconciled |
| 1000576               | 9-Mar-23     | VSS SALES INC                                       | 45,760.00      | IRWD Wells Fargo ACH | Reconciled |
| 1000577               | 9-Mar-23     | WATER TREATMENT CHEMICALS INC                       | 19,521.00      | IRWD Wells Fargo ACH | Reconciled |
| 1000578               | 9-Mar-23     | WATERSMART SOFTWARE INC                             | 15,925.11      | IRWD Wells Fargo ACH | Reconciled |
| 1000579               | 9-Mar-23     | WOODARD & CURRAN INC                                | 5,415.00       | IRWD Wells Fargo ACH | Reconciled |
| 1000580               | 9-Mar-23     | YORKE ENGINEERING, LLC                              | 452.25         | IRWD Wells Fargo ACH | Reconciled |
| 1000581               | 16-Mar-23    | ADAM'S FALCONRY SERVICE, LLC                        | 1,800.00       | IRWD Wells Fargo ACH | Reconciled |
| 1000582               | 16-Mar-23    | CALIFORNIA BARRICADE RENTAL, INC.                   | 12,694.50      | IRWD Wells Fargo ACH | Reconciled |
| 1000583               | 16-Mar-23    | CAROLLO ENGINEERS, INC                              | 15,202.75      | IRWD Wells Fargo ACH | Reconciled |
| 1000584               | 16-Mar-23    | COASTAL OCCUPATIONAL MEDICAL GROUP, INC.            | 2,553.39       | IRWD Wells Fargo ACH | Reconciled |
| 1000585               | 16-Mar-23    | CONSERV CONSTRUCTION INC.                           | 2,362.50       | IRWD Wells Fargo ACH | Reconciled |
| 1000586               | 16-Mar-23    | DRAKE TRAFFIC CONTROL SERVICES INC                  | 3,727.50       | IRWD Wells Fargo ACH | Reconciled |
| 1000587               | 16-Mar-23    | EHS INTERNATIONAL,INC                               | 3,300.00       | IRWD Wells Fargo ACH | Reconciled |
| 1000588               | 16-Mar-23    | EUROFINS ENVIRONMENT TESTING AMERICA HOLDINGS, INC. | 3,160.50       | IRWD Wells Fargo ACH | Reconciled |
| 1000589               | 16-Mar-23    | FIDELITY SECURITY LIFE INSURANCE COMPANY            | 8,056.76       | IRWD Wells Fargo ACH | Reconciled |
| 1000590               | 16-Mar-23    | HAAKER EQUIPMENT COMPANY                            | 373.58         | IRWD Wells Fargo ACH | Reconciled |
| 1000591               | 16-Mar-23    | HILL BROTHERS CHEMICAL COMPANY                      | 4,479.60       | IRWD Wells Fargo ACH | Reconciled |
| 1000592               | 16-Mar-23    | INDUSTRIAL NETWORKING SOLUTIONS                     | 1,931.08       | IRWD Wells Fargo ACH | Reconciled |
| 1000593               | 16-Mar-23    | JOHN MICHAEL COVAS                                  | 652.50         | IRWD Wells Fargo ACH | Reconciled |
| 1000594               | 16-Mar-23    | LABWORKS, LLC                                       | 2,750.00       | IRWD Wells Fargo ACH | Reconciled |
| 1000595               | 16-Mar-23    | OLIN CORPORATION                                    | 110,178.74     | IRWD Wells Fargo ACH | Reconciled |
| 1000596               | 16-Mar-23    | ORANGE COUNTY AUTO PARTS CO                         | 1,305.83       | IRWD Wells Fargo ACH | Reconciled |
| 1000597               | 16-Mar-23    | RAM AIR ENGINEERING INC                             | 3,931.70       | IRWD Wells Fargo ACH | Reconciled |
| 1000598               | 16-Mar-23    | RESOLUTE COMPANY                                    | 17,783.95      | IRWD Wells Fargo ACH | Reconciled |
| 1000599               | 16-Mar-23    | ROSEDALE - RIO BRAVO WATER STORAGE DISTRICT         | 245.54         | IRWD Wells Fargo ACH | Reconciled |
| 1000600               | 16-Mar-23    | SI TESTING  | 1,145.00       | IRWD Wells Fargo ACH | Reconciled |
| 1000601               | 16-Mar-23    | SUNSHINE SUPPLY COMPANY, INC.                       | 3,418.37       | IRWD Wells Fargo ACH | Reconciled |
| 1000602               | 16-Mar-23    | T.E. ROBERTS, INC.                                  | 40,752.09      | IRWD Wells Fargo ACH | Reconciled |
| 1000603               | 16-Mar-23    | VSS SALES INC                                       | 2,224.31       | IRWD Wells Fargo ACH | Reconciled |
| 1000604               | 16-Mar-23    | WOODARD & CURRAN INC                                | 83,392.50      | IRWD Wells Fargo ACH | Reconciled |
| 1000605               | 16-Mar-23    | FISHER & PHILLIPS LLP                               | 121,509.04     | IRWD Wells Fargo ACH | Reconciled |
| 1000606               | 23-Mar-23    | ORANGE COUNTY SANITATION DISTRICT                   | 150,980.37     | IRWD Wells Fargo ACH | Reconciled |
| 1000607               | 23-Mar-23    | ACE INDUSTRIES, INC.                                | 2,147.88       | IRWD Wells Fargo ACH | Reconciled |
| 1000608               | 23-Mar-23    | ADAM'S FALCONRY SERVICE, LLC                        | 2,100.00       | IRWD Wells Fargo ACH | Reconciled |
| 1000609               | 23-Mar-23    | AECOM TECHNICAL SERVICES, INC.                      | 971,553.85     | IRWD Wells Fargo ACH | Reconciled |
| 1000610               | 23-Mar-23    | APPLIED ENGINEERING CONCEPTS                        | 2,740.00       | IRWD Wells Fargo ACH | Reconciled |
| 1000611               | 23-Mar-23    | CALIFORNIA BARRICADE RENTAL, INC.                   | 5,691.00       | IRWD Wells Fargo ACH | Reconciled |
| 1000612               | 23-Mar-23    | CAROLLO ENGINEERS, INC                              | 28,553.25      | IRWD Wells Fargo ACH | Reconciled |
| 1000613               | 23-Mar-23    | CENTURY PAVING, INC.                                | 33,307.00      | IRWD Wells Fargo ACH | Reconciled |
| 1000614               | 23-Mar-23    | COASTAL OCCUPATIONAL MEDICAL GROUP, INC.            | 5,318.04       | IRWD Wells Fargo ACH | Reconciled |
| 1000615               | 23-Mar-23    | DATA CLEAN CORPORATION                              | 600.00         | IRWD Wells Fargo ACH | Reconciled |
| 1000616               | 23-Mar-23    | DELTA DENTAL OF CALIFORNIA                          | 42,234.63      | IRWD Wells Fargo ACH | Reconciled |
| 1000617               | 23-Mar-23    | DEMARIA ELECTRIC MOTOR SERVICES, INC.               | 52,516.26      | IRWD Wells Fargo ACH | Reconciled |
| 1000618               | 23-Mar-23    | DRAKE TRAFFIC CONTROL SERVICES INC                  | 7,522.50       | IRWD Wells Fargo ACH | Reconciled |
| 1000619               | 23-Mar-23    | GM SAGER CONSTRUCTION CO,INC.                       | 49,200.00      | IRWD Wells Fargo ACH | Reconciled |
| 1000620               | 23-Mar-23    | HANSON BRIDGETT LLP                                 | 66,010.16      | IRWD Wells Fargo ACH | Reconciled |
| 1000621               | 23-Mar-23    | HILL BROTHERS CHEMICAL COMPANY                      | 10,616.55      | IRWD Wells Fargo ACH | Reconciled |
| 1000622               | 23-Mar-23    | HINSILBLON LTD                                      | 25,904.00      | IRWD Wells Fargo ACH | Reconciled |
| 1000623               | 23-Mar-23    | MBF CONSULTING, INC.                                | 33,409.00      | IRWD Wells Fargo ACH | Reconciled |
| 1000624               | 23-Mar-23    | MERRIMAC PETROLEUM, INC.                            | 30,108.02      | IRWD Wells Fargo ACH | Reconciled |
| 1000625               | 23-Mar-23    | OLIN CORPORATION                                    | 42,252.17      | IRWD Wells Fargo ACH | Reconciled |
| 1000626               | 23-Mar-23    | ORANGE COUNTY AUTO PARTS CO                         | 924.32         | IRWD Wells Fargo ACH | Reconciled |
| 1000627               | 23-Mar-23    | PACIFIC PARTS & CONTROLS INC                        | 18,800.55      | IRWD Wells Fargo ACH | Reconciled |
| 1000628               | 23-Mar-23    | RAM AIR ENGINEERING INC                             | 3,000.00       | IRWD Wells Fargo ACH | Reconciled |
| 1000629               | 23-Mar-23    | REACH EMPLOYEE ASSISTANCE INC                       | 1,066.80       | IRWD Wells Fargo ACH | Reconciled |
| 1000630               | 23-Mar-23    | RINCON TRUCK CENTER INC.                            | 8,376.60       | IRWD Wells Fargo ACH | Reconciled |
| 1000631               | 23-Mar-23    | ROSEDALE - RIO BRAVO WATER STORAGE DISTRICT         | 83,826.96      | IRWD Wells Fargo ACH | Reconciled |
| 1000632               | 23-Mar-23    | SOUTHLAND WATER TECHNOLOGIES LLC                    | 2,165.00       | IRWD Wells Fargo ACH | Reconciled |
| 1000633               | 23-Mar-23    | SUSAN A. SIROTA                                     | 4,850.00       | IRWD Wells Fargo ACH | Reconciled |
| 1000634               | 23-Mar-23    | TETRA TECH, INC                                     | 28,647.50      | IRWD Wells Fargo ACH | Reconciled |
| 1000635               | 23-Mar-23    | VSS SALES INC                                       | 53,613.79      | IRWD Wells Fargo ACH | Reconciled |
| 1000636               | 23-Mar-23    | WEST COAST SAFETY SUPPLY INC                        | 1,221.77       | IRWD Wells Fargo ACH | Reconciled |
| 1000637               | 23-Mar-23    | WOODARD & CURRAN INC                                | 109,525.25     | IRWD Wells Fargo ACH | Reconciled |

**IRVINE RANCH WATER DISTRICT  
AP DISBURSEMENTS AND VOIDS FOR MARCH 2023**

| <b>CHECK OR<br/>ELECTRONIC #</b>                    | <b>PAYMENT<br/>DATE</b> | <b>SUPPLIERS</b>                                    | <b>PAYMENT<br/>AMOUNT</b> | <b>PAYMENT METHOD</b> | <b>STATUS</b> |
|---|-------------------------|---|---------------------------|-----------------------|---------------|
| 1000638   | 30-Mar-23               | ADAM'S FALCONRY SERVICE, LLC                        | 1,500.00                  | IRWD Wells Fargo ACH  | Reconciled    |
| 1000639   | 30-Mar-23               | ALSTON & BIRD LLP                                   | 3,968.30                  | IRWD Wells Fargo ACH  | Reconciled    |
| 1000640   | 30-Mar-23               | ARAG NORTH AMERICA, INC.                            | 552.75                    | IRWD Wells Fargo ACH  | Reconciled    |
| 1000641   | 30-Mar-23               | ARDURRA GROUP, INC.                                 | 14,400.00                 | IRWD Wells Fargo ACH  | Reconciled    |
| 1000642   | 30-Mar-23               | ASSOCIATION OF CALIFORNIA WATER AGENCIES            | 2,000.00                  | IRWD Wells Fargo ACH  | Reconciled    |
| 1000643   | 30-Mar-23               | BRENNTAG PACIFIC INC                                | 64,498.62                 | IRWD Wells Fargo ACH  | Reconciled    |
| 1000644   | 30-Mar-23               | CALIFORNIA BARRICADE RENTAL, INC.                   | 13,189.80                 | IRWD Wells Fargo ACH  | Reconciled    |
| 1000645   | 30-Mar-23               | CDW GOVERNMENT LLC                                  | 2,145.58                  | IRWD Wells Fargo ACH  | Reconciled    |
| 1000646   | 30-Mar-23               | CITY OF IRVINE                                      | 13,260.85                 | IRWD Wells Fargo ACH  | Reconciled    |
| 1000647   | 30-Mar-23               | DRAKE TRAFFIC CONTROL SERVICES INC                  | 5,267.50                  | IRWD Wells Fargo ACH  | Reconciled    |
| 1000648   | 30-Mar-23               | E.J. MEYER COMPANY                                  | 123,212.81                | IRWD Wells Fargo ACH  | Reconciled    |
| 1000649   | 30-Mar-23               | EUROFINS ENVIRONMENT TESTING AMERICA HOLDINGS, INC. | 3,274.75                  | IRWD Wells Fargo ACH  | Reconciled    |
| 1000650   | 30-Mar-23               | FIDELITY SECURITY LIFE INSURANCE COMPANY            | 7,723.51                  | IRWD Wells Fargo ACH  | Reconciled    |
| 1000651   | 30-Mar-23               | GANAHL LUMBER CO.                                   | 628.92                    | IRWD Wells Fargo ACH  | Reconciled    |
| 1000652   | 30-Mar-23               | HELPMATES STAFFING SERVICES LLC                     | 4,436.40                  | IRWD Wells Fargo ACH  | Reconciled    |
| 1000653   | 30-Mar-23               | HILL BROTHERS CHEMICAL COMPANY                      | 7,911.27                  | IRWD Wells Fargo ACH  | Reconciled    |
| 1000654   | 30-Mar-23               | JCI JONES CHEMICALS INC                             | 16,739.82                 | IRWD Wells Fargo ACH  | Reconciled    |
| 1000655   | 30-Mar-23               | JIG CONSULTANTS                                     | 2,065.00                  | IRWD Wells Fargo ACH  | Reconciled    |
| 1000656   | 30-Mar-23               | KRONICK MOSKOVITZ TIEDEMANN & GIRARD                | 1,012.50                  | IRWD Wells Fargo ACH  | Reconciled    |
| 1000657   | 30-Mar-23               | MORRISROE, EDWARD                                   | 424.58                    | IRWD Wells Fargo ACH  | Reconciled    |
| 1000658   | 30-Mar-23               | NEWPORT WINDOW MAINTENANCE INC                      | 610.00                    | IRWD Wells Fargo ACH  | Reconciled    |
| 1000659   | 30-Mar-23               | NV5, INC.   | 19,720.00                 | IRWD Wells Fargo ACH  | Reconciled    |
| 1000660   | 30-Mar-23               | OLIN CORPORATION                                    | 20,139.11                 | IRWD Wells Fargo ACH  | Reconciled    |
| 1000661   | 30-Mar-23               | ORANGE COUNTY AUTO PARTS CO                         | 393.12                    | IRWD Wells Fargo ACH  | Reconciled    |
| 1000662   | 30-Mar-23               | PACIFIC PARTS & CONTROLS INC                        | 1,772.15                  | IRWD Wells Fargo ACH  | Reconciled    |
| 1000663   | 30-Mar-23               | PROJECT PARTNERS LLC                                | 800.00                    | IRWD Wells Fargo ACH  | Reconciled    |
| 1000664   | 30-Mar-23               | RAM AIR ENGINEERING INC                             | 19,929.16                 | IRWD Wells Fargo ACH  | Reconciled    |
| 1000665   | 30-Mar-23               | SIEMENS INDUSTRY INC                                | 2,386.66                  | IRWD Wells Fargo ACH  | Reconciled    |
| 1000666   | 30-Mar-23               | SUKLE ADVERTISING INC.                              | 5,034.85                  | IRWD Wells Fargo ACH  | Reconciled    |
| 1000667   | 30-Mar-23               | TETRA TECH, INC                                     | 30,955.00                 | IRWD Wells Fargo ACH  | Reconciled    |
| 1000668   | 30-Mar-23               | WATER TREATMENT CHEMICALS INC                       | 19,521.00                 | IRWD Wells Fargo ACH  | Reconciled    |
| 1000669   | 30-Mar-23               | WOODARD & CURRAN INC                                | 104,554.72                | IRWD Wells Fargo ACH  | Reconciled    |
| 1000670   | 30-Mar-23               | ORANGE COUNTY SANITATION DISTRICT                   | 34,313.66                 | IRWD Wells Fargo ACH  | Reconciled    |
| <b>SUB-TOTAL IRWD WELLS FARGO ACH DISBURSEMENTS</b> |                         |   | <b>5,002,095.90</b>       |                       |               |
| 2000193   | 2-Mar-23                | AMERICAN GEOTECHNICAL, INC.                         | 1,101.25                  | IRWD Wells Fargo PC   | Negotiable    |
| 2000194   | 2-Mar-23                | FLEET SOLUTIONS LLC                                 | 5,418.38                  | IRWD Wells Fargo PC   | Negotiable    |
| 2000195   | 2-Mar-23                | HARRINGTON INDUSTRIAL PLASTICS LLC                  | 6,164.83                  | IRWD Wells Fargo PC   | Reconciled    |
| 2000196   | 2-Mar-23                | IRVINE PIPE & SUPPLY INC                            | 43.79                     | IRWD Wells Fargo PC   | Reconciled    |
| 2000197   | 2-Mar-23                | LUBRICATION ENGINEERS, INC.                         | 8,614.01                  | IRWD Wells Fargo PC   | Reconciled    |
| 2000198   | 2-Mar-23                | NCL OF WISCONSIN INC                                | 802.96                    | IRWD Wells Fargo PC   | Reconciled    |
| 2000199   | 2-Mar-23                | PARKHOUSE TIRE INC                                  | 2,930.35                  | IRWD Wells Fargo PC   | Reconciled    |
| 2000200   | 2-Mar-23                | THOMPSON & PHIPPS INC                               | 4,376.00                  | IRWD Wells Fargo PC   | Reconciled    |
| 2000201   | 2-Mar-23                | UCT, LLC  | 936.95                    | IRWD Wells Fargo PC   | Reconciled    |
| 2000202   | 2-Mar-23                | WECK LABORATORIES INC                               | 663.00                    | IRWD Wells Fargo PC   | Reconciled    |
| 2000203   | 9-Mar-23                | CAPTIVE AUDIENCE MARKETING INC.                     | 79.00                     | IRWD Wells Fargo PC   | Reconciled    |
| 2000204   | 9-Mar-23                | FLEET SOLUTIONS LLC                                 | 5,418.38                  | IRWD Wells Fargo PC   | Negotiable    |
| 2000205   | 9-Mar-23                | HARRINGTON INDUSTRIAL PLASTICS LLC                  | 12,334.17                 | IRWD Wells Fargo PC   | Reconciled    |
| 2000206   | 9-Mar-23                | INNOVATIVE MACHINE TOOL REPAIR LLC                  | 1,120.74                  | IRWD Wells Fargo PC   | Reconciled    |
| 2000207   | 9-Mar-23                | IRVINE PIPE & SUPPLY INC                            | 1,379.45                  | IRWD Wells Fargo PC   | Reconciled    |
| 2000208   | 9-Mar-23                | PARKHOUSE TIRE INC                                  | 6,941.69                  | IRWD Wells Fargo PC   | Reconciled    |
| 2000209   | 9-Mar-23                | POLYDYNE INC  | 22,675.99                 | IRWD Wells Fargo PC   | Negotiable    |
| 2000210   | 9-Mar-23                | THERMO ELECTRON NORTH AMERICA LLC                   | 7,149.00                  | IRWD Wells Fargo PC   | Negotiable    |
| 2000211   | 9-Mar-23                | THOMPSON & PHIPPS INC                               | 13,445.34                 | IRWD Wells Fargo PC   | Negotiable    |
| 2000212   | 9-Mar-23                | UCT, LLC  | 391.60                    | IRWD Wells Fargo PC   | Reconciled    |
| 2000214   | 9-Mar-23                | WECK LABORATORIES INC                               | 2,679.00                  | IRWD Wells Fargo PC   | Reconciled    |
| 2000215   | 13-Mar-23               | FERGUSON ENTERPRISES, LLC                           | 64,507.82                 | IRWD Wells Fargo PC   | Reconciled    |
| 2000216   | 16-Mar-23               | CULLIGAN OF SANTA ANA                               | 22,100.00                 | IRWD Wells Fargo PC   | Negotiable    |
| 2000217   | 16-Mar-23               | FERGUSON ENTERPRISES, LLC                           | 104.81                    | IRWD Wells Fargo PC   | Negotiable    |
| 2000218   | 16-Mar-23               | IDEXX DISTRIBUTION, INC                             | 3,291.57                  | IRWD Wells Fargo PC   | Negotiable    |
| 2000219   | 16-Mar-23               | IRVINE PIPE & SUPPLY INC                            | 640.61                    | IRWD Wells Fargo PC   | Negotiable    |
| 2000220   | 16-Mar-23               | PARKHOUSE TIRE INC                                  | 2,868.84                  | IRWD Wells Fargo PC   | Reconciled    |
| 2000221   | 16-Mar-23               | POLYDYNE INC  | 22,675.99                 | IRWD Wells Fargo PC   | Negotiable    |
| 2000222   | 16-Mar-23               | QUALITY ENVIRONMENTAL CONTAINERS                    | 968.10                    | IRWD Wells Fargo PC   | Negotiable    |
| 2000223   | 16-Mar-23               | THOMPSON & PHIPPS INC                               | 8,938.85                  | IRWD Wells Fargo PC   | Negotiable    |
| 2000224   | 16-Mar-23               | UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA    | 25,453.60                 | IRWD Wells Fargo PC   | Reconciled    |
| 2000225   | 16-Mar-23               | WECK LABORATORIES INC                               | 1,262.50                  | IRWD Wells Fargo PC   | Reconciled    |
| 2000226   | 23-Mar-23               | ABSOLUTE STANDARDS, INC.                            | 1,396.25                  | IRWD Wells Fargo PC   | Reconciled    |
| 2000227   | 23-Mar-23               | FERGUSON ENTERPRISES, LLC                           | 10,498.03                 | IRWD Wells Fargo PC   | Reconciled    |
| 2000228   | 23-Mar-23               | HARRINGTON INDUSTRIAL PLASTICS LLC                  | 6,938.99                  | IRWD Wells Fargo PC   | Reconciled    |
| 2000229   | 23-Mar-23               | INNOVATIVE MACHINE TOOL REPAIR LLC                  | 2,061.00                  | IRWD Wells Fargo PC   | Reconciled    |

**IRVINE RANCH WATER DISTRICT  
AP DISBURSEMENTS AND VOIDS FOR MARCH 2023**

| CHECK OR ELECTRONIC #  | PAYMENT DATE | SUPPLIERS  | PAYMENT AMOUNT       | PAYMENT METHOD                  | STATUS     |
|--|--------------|--|----------------------|---------------------------------|------------|
| 2000230  | 23-Mar-23    | IRVINE PIPE & SUPPLY INC                         | 3,449.75             | IRWD Wells Fargo PC             | Reconciled |
| 2000231  | 23-Mar-23    | PARKHOUSE TIRE INC                               | 506.96               | IRWD Wells Fargo PC             | Reconciled |
| 2000232  | 23-Mar-23    | PARKWAY LAWNMOWER SHOP                           | 155.94               | IRWD Wells Fargo PC             | Negotiable |
| 2000233  | 23-Mar-23    | THERMO ELECTRON NORTH AMERICA LLC                | 22,835.32            | IRWD Wells Fargo PC             | Reconciled |
| 2000234  | 23-Mar-23    | THOMPSON & PHIPPS INC                            | 30,468.53            | IRWD Wells Fargo PC             | Negotiable |
| 2000235  | 23-Mar-23    | WECK LABORATORIES INC                            | 930.00               | IRWD Wells Fargo PC             | Reconciled |
| 2000236  | 30-Mar-23    | BIO-ACOUSTICAL CORP.                             | 1,250.00             | IRWD Wells Fargo PC             | Negotiable |
| 2000237  | 30-Mar-23    | BIOMAGIC INC                                     | 7,308.37             | IRWD Wells Fargo PC             | Negotiable |
| 2000238  | 30-Mar-23    | FERGUSON ENTERPRISES, LLC                        | 45,527.22            | IRWD Wells Fargo PC             | Reconciled |
| 2000239  | 30-Mar-23    | IRVINE PIPE & SUPPLY INC                         | 2,231.87             | IRWD Wells Fargo PC             | Reconciled |
| 2000240  | 30-Mar-23    | RESTEK CORPORATION                               | 985.28               | IRWD Wells Fargo PC             | Reconciled |
| 2000241  | 30-Mar-23    | THOMPSON & PHIPPS INC                            | 859.77               | IRWD Wells Fargo PC             | Reconciled |
| 2000242  | 30-Mar-23    | WECK LABORATORIES INC                            | 185.00               | IRWD Wells Fargo PC             | Reconciled |
| <b>SUB-TOTAL IRWD WELLS FARGO PC</b>   |              |  | <b>395,066.85</b>    |                                 |            |
| 100006   | 21-Mar-23    | MUNICIPAL WATER DISTRICT OF ORANGE COUNTY        | 740,548.47           | IRWD Wells Fargo Wire           | Negotiable |
| <b>SUB-TOTAL IRWD WELLS FARGO WIRE DISBURSEMENTS</b>                                       |              |  | <b>740,548.47</b>    |                                 |            |
| 15361  | 1-Mar-23     | BANK OF AMERICA MERRILL LYNCH                    | 92,667.68            | IRWD Wire                       | Negotiable |
| 15362  | 1-Mar-23     | BANK OF AMERICA MERRILL LYNCH                    | 92,667.68            | IRWD Wire                       | Negotiable |
| 15363  | 2-Mar-23     | CALPERS  | 633,296.47           | IRWD Wire                       | Negotiable |
| 15364  | 2-Mar-23     | CALPERS  | 4,072.60             | IRWD Wire                       | Negotiable |
| 15365  | 6-Mar-23     | CHARD SNYDER & ASSOCIATES, INC.                  | 1,515.50             | IRWD Wire                       | Negotiable |
| 15366  | 8-Mar-23     | CHARD SNYDER & ASSOCIATES, INC.                  | 7,567.26             | IRWD Wire                       | Negotiable |
| 15367  | 8-Mar-23     | CHARD SNYDER & ASSOCIATES, INC.                  | 20,831.58            | IRWD Wire                       | Negotiable |
| 15368  | 9-Mar-23     | CALPERS  | 272,644.57           | IRWD Wire                       | Negotiable |
| 15369  | 9-Mar-23     | YORK RISK SERVICES GROUP, INC.                   | 55,762.67            | IRWD Wire                       | Negotiable |
| 15370  | 9-Mar-23     | YORK RISK SERVICES GROUP, INC.                   | 3,935.38             | IRWD Wire                       | Negotiable |
| 15371  | 9-Mar-23     | SUMITOMO MITSUI BANKING CORPORATION              | 80,315.07            | IRWD Wire                       | Negotiable |
| 15372  | 9-Mar-23     | U.S. BANK NATIONAL ASSOCIATION                   | 36,541.64            | IRWD Wire                       | Negotiable |
| 15373  | 9-Mar-23     | BANK OF NEW YORK MELLON TRUST COMPANY NA         | 168,993.97           | IRWD Wire                       | Negotiable |
| 15374  | 9-Mar-23     | U.S. BANK NATIONAL ASSOCIATION                   | 80,684.93            | IRWD Wire                       | Negotiable |
| 15375  | 9-Mar-23     | BANK OF AMERICA                                  | 71,861.61            | IRWD Wire                       | Negotiable |
| 15376  | 15-Mar-23    | CHARD SNYDER & ASSOCIATES, INC.                  | 5,263.13             | IRWD Wire                       | Negotiable |
| 15377  | 15-Mar-23    | CHARD SNYDER & ASSOCIATES, INC.                  | 6,652.09             | IRWD Wire                       | Negotiable |
| 15378  | 16-Mar-23    | INTERNAL REVENUE SERVICE                         | 269,318.81           | IRWD Wire                       | Negotiable |
| 15379  | 16-Mar-23    | FRANCHISE TAX BOARD                              | 82,916.51            | IRWD Wire                       | Negotiable |
| 15380  | 16-Mar-23    | EMPLOYMENT DEVELOPMENT DEPARTMENT                | 1,744.56             | IRWD Wire                       | Negotiable |
| 15381  | 16-Mar-23    | CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES  | 3,864.53             | IRWD Wire                       | Negotiable |
| 15382  | 16-Mar-23    | EMPLOYMENT DEVELOPMENT DEPARTMENT                | 15,515.13            | IRWD Wire                       | Negotiable |
| 15383  | 16-Mar-23    | EMPOWER RETIREMENT, LLC                          | 248,354.94           | IRWD Wire                       | Negotiable |
| 15384  | 16-Mar-23    | CALPERS  | 272,941.30           | IRWD Wire                       | Negotiable |
| 15385  | 16-Mar-23    | CALPERS  | 1,286.67             | IRWD Wire                       | Negotiable |
| 15386  | 21-Mar-23    | CITIGROUP GLOBAL MARKETS INC.                    | 271,537.72           | IRWD Wire                       | Negotiable |
| 15387  | 21-Mar-23    | MERRILL LYNCH CAPITAL SERVICES, INC              | 271,537.72           | IRWD Wire                       | Negotiable |
| 15388  | 21-Mar-23    | CHARD SNYDER & ASSOCIATES, INC.                  | 4,746.10             | IRWD Wire                       | Negotiable |
| 15389  | 21-Mar-23    | CHARD SNYDER & ASSOCIATES, INC.                  | 3,432.61             | IRWD Wire                       | Negotiable |
| 15390  | 22-Mar-23    | YORK RISK SERVICES GROUP, INC.                   | 3,280.08             | IRWD Wire                       | Negotiable |
| 15391  | 22-Mar-23    | YORK RISK SERVICES GROUP, INC.                   | 2,724.43             | IRWD Wire                       | Negotiable |
| 15392  | 27-Mar-23    | CHARD SNYDER & ASSOCIATES, INC.                  | 4,426.82             | IRWD Wire                       | Negotiable |
| 15393  | 27-Mar-23    | CHARD SNYDER & ASSOCIATES, INC.                  | 5,051.01             | IRWD Wire                       | Negotiable |
| 15394  | 30-Mar-23    | INTERNAL REVENUE SERVICE                         | 268,243.08           | IRWD Wire                       | Negotiable |
| 15395  | 30-Mar-23    | EMPLOYMENT DEVELOPMENT DEPARTMENT                | 296.24               | IRWD Wire                       | Negotiable |
| 15396  | 30-Mar-23    | EMPLOYMENT DEVELOPMENT DEPARTMENT                | 16,066.92            | IRWD Wire                       | Negotiable |
| 15397  | 30-Mar-23    | FRANCHISE TAX BOARD                              | 82,422.91            | IRWD Wire                       | Negotiable |
| 15398  | 30-Mar-23    | CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES  | 3,864.53             | IRWD Wire                       | Negotiable |
| 15399  | 30-Mar-23    | EMPOWER RETIREMENT, LLC                          | 203,402.05           | IRWD Wire                       | Negotiable |
| 15400  | 30-Mar-23    | CALPERS  | 272,215.39           | IRWD Wire                       | Negotiable |
| 15401  | 31-Mar-23    | YORK RISK SERVICES GROUP, INC.                   | 15,179.67            | IRWD Wire                       | Negotiable |
| <b>SUB-TOTAL IRWD BOFA WIRE DISBURSEMENTS</b>  |              |  | <b>3,959,643.56</b>  |                                 |            |
| <b>SUB-TOTAL BOFA AND WELLS FARGO CHECK AND ELECTRONIC DISBURSEMENTS</b>                   |              |  | <b>21,156,417.88</b> |                                 |            |
| 434425   | 2-Mar-23     | COLONIAL LIFE & ACCIDENT INSURANCE CO.           | 652.98               | IRWD Wells Fargo Check          | Voided     |
| 434455   | 9-Mar-23     | BANK OF NEW YORK MELLON TRUST COMPANY NA         | 1,705.00             | IRWD Wells Fargo Check No Print | Voided     |
| 434656   | 16-Mar-23    | DOWNEY, KIM                                      | 51.15                | IRWD Wells Fargo Check No Print | Voided     |
| 2000213  | 9-Mar-23     | UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA | 5,377.37             | IRWD Wells Fargo PC             | Voided     |
| <b>SUB-TOTAL BOFA AND WELLS FARGO CHECK AND ELECTRONIC ISSUED AND VOIDED IN MARCH 2023</b> |              |  | <b>7,786.50</b>      |                                 |            |
| <b>TOTAL</b>   |              |  | <b>21,164,204.38</b> |                                 |            |

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Exhibit "E"

**MONTHLY SUMMARY OF PAYROLL ACH PAYMENTS**

**March  
2023**

|           | AMOUNT                       | VENDOR          | PURPOSE                  |
|-----------|------------------------------|-----------------|--------------------------|
| 3/10/2023 | 1,189,134.79                 | BANK OF AMERICA | ACH Payments for Payroll |
| 3/24/2023 | 1,187,439.26                 | BANK OF AMERICA | ACH Payments for Payroll |
|           | <u><u>\$2,376,574.05</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-MAR-23 to 31-MAR-23

| NAME                 | CHECK NO. | CHECK DATE | AMOUNT            | ITEM DESCRIPTION | EXPENSE JUSTIFICATION  |
|----------------------|-----------|------------|-------------------|------------------|--|
| Arbogast, Ryan       | 434605    | 9-Mar-23   | 249.00            | Other(Misc)      | Wireless device damaged  |
| Burk, Rachael        | 434423    | 2-Mar-23   | 180.00            | Certification    | Professional Engineers liscense renewal  |
| Chaney, David        | 434911    | 23-Mar-23  | 202.00            | Membership       | CWEA membership  |
| Chaney, David        | 434911    | 23-Mar-23  | 100.00            | Certification    | CWEA Collection System Maintenance Grade II                                    |
| Cronin, Gregory      | 434608    | 9-Mar-23   | 200.00            | Other(Misc)      | Safety shoe allowance  |
| Davis, Jennifer      | 435039    | 30-Mar-23  | 212.96            | Airfare          | GIOA 2023 Annual Conference, Las Vegas, NV - March 7-9, 2023                   |
| Davis, Jennifer      | 435039    | 30-Mar-23  | 150.80            | Lodging          | GIOA 2023 Annual Conference, Las Vegas, NV - March 7, 2023                     |
| Davis, Jennifer      | 435039    | 30-Mar-23  | 150.80            | Lodging          | GIOA 2023 Annual Conference, Las Vegas, NV - March 7, 2023                     |
| Garcia, Alex         | 434610    | 9-Mar-23   | 202.00            | Membership       | CWEA membership  |
| Garcia, Alex         | 434610    | 9-Mar-23   | 100.00            | Certification    | CWEA Electrical Instrumentation Grade II                                       |
| Garcia, Juan         | 434611    | 9-Mar-23   | 137.81            | Lodging          | California Irrigation Institute Conference, Sacramento, CA - February 27, 2023 |
| Garcia, Juan         | 434611    | 9-Mar-23   | 248.98            | Lodging          | California Irrigation Institute Conference, Sacramento, CA - February 28, 2023 |
| Giatpaiboon, Scott   | 435040    | 30-Mar-23  | 273.46            | Lodging          | PITTCON 2023 Conference & Exposition, Philadelphia, PA - March 17, 2023        |
| Giatpaiboon, Scott   | 435040    | 30-Mar-23  | 273.46            | Lodging          | PITTCON 2023 Conference & Exposition, Philadelphia, PA - March 18, 2023        |
| Giatpaiboon, Scott   | 435040    | 30-Mar-23  | 273.46            | Lodging          | PITTCON 2023 Conference & Exposition, Philadelphia, PA - March 19, 2023        |
| Giatpaiboon, Scott   | 435040    | 30-Mar-23  | 273.46            | Lodging          | PITTCON 2023 Conference & Exposition, Philadelphia, PA - March 20, 2023        |
| Giatpaiboon, Scott   | 435040    | 30-Mar-23  | 273.46            | Lodging          | PITTCON 2023 Conference & Exposition, Philadelphia, PA - March 21, 2023        |
| Haney, Lisa          | 434742    | 16-Mar-23  | 613.96            | Airfare          | WaterReuse 2023 Symposium, Atlanta, GA - March 5-8, 2023                       |
| Haney, Lisa          | 434742    | 16-Mar-23  | 307.77            | Lodging          | WaterReuse 2023 Symposium, Atlanta, GA - March 4, 2023                         |
| Haney, Lisa          | 434742    | 16-Mar-23  | 307.77            | Lodging          | WaterReuse 2023 Symposium, Atlanta, GA - March 5, 2023                         |
| Haney, Lisa          | 434742    | 16-Mar-23  | 307.77            | Lodging          | WaterReuse 2023 Symposium, Atlanta, GA - March 6, 2023                         |
| Haney, Lisa          | 434742    | 16-Mar-23  | 307.77            | Lodging          | WaterReuse 2023 Symposium, Atlanta, GA - March 7, 2023                         |
| Huang, Robert        | 434612    | 9-Mar-23   | 200.00            | Other(Misc)      | Safety shoe allowance  |
| Jones, Morgan        | 434917    | 23-Mar-23  | 105.00            | Certification    | SWRCB Water Treatment Operator Grade I   |
| Karpan, Casey        | 434615    | 9-Mar-23   | 200.00            | Other(Misc)      | Safety shoe allowance  |
| Ledesma, Alex        | 434616    | 9-Mar-23   | 200.00            | Other(Misc)      | Safety shoe allowance  |
| Legault, Dan         | 434617    | 9-Mar-23   | 200.00            | Other(Misc)      | Safety shoe allowance  |
| Lin, Eileen          | 434618    | 9-Mar-23   | 106.49            | Lunch <30        | Welcome lunch for new hire Irene Nguyen (4 people)                             |
| McBride, Damien      | 434918    | 23-Mar-23  | 200.00            | Other(Misc)      | Safety shoe allowance  |
| McGhee, Joseph       | 434919    | 23-Mar-23  | 180.00            | Certification    | Professional Engineers liscense renewal  |
| Nguyen, Claire       | 434744    | 16-Mar-23  | 202.00            | Membership       | CWEA membership  |
| Nguyen, Claire       | 434744    | 16-Mar-23  | 105.00            | Certification    | CWEA Laboratory Analyst Grade III  |
| Rendon, Esteban      | 435042    | 30-Mar-23  | 200.00            | Other(Misc)      | Safety shoe allowance  |
| Reynoso, Pio         | 434620    | 9-Mar-23   | 202.00            | Membership       | CWEA membership  |
| Reynoso, Pio         | 434620    | 9-Mar-23   | 105.00            | Certification    | CWEA Collection System Maintenance Grade III                                   |
| Rios, Belisario      | 434921    | 23-Mar-23  | 180.00            | Certification    | Professional Engineers liscense renewal  |
| Saini, Mohit         | 434922    | 23-Mar-23  | 365.32            | Lodging          | Oracle Edge & Oracle Utilities User Conference, San Diego, CA - March 13, 2023 |
| Vu, Johnny           | 435043    | 30-Mar-23  | 200.00            | Other(Misc)      | Safety shoe allowance  |
| Zamora, Victor       | 434923    | 23-Mar-23  | 177.74            | Other(Misc)      | Shadetree Nursery meeting supplies   |
| <b>Total Amount:</b> |           |            | <b>\$8,475.24</b> |                  |  |

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April 24, 2023  
Prepared and  
submitted by: L. Bonkowski  
Approved by: Paul A. Cook 

CONSENT CALENDAR

APPOINTMENT OF TREASURER AND ASSISTANT TREASURER

SUMMARY:

Due to the retirement of IRWD’s former Treasurer, Mr. Robert Jacobson, on March 3, 2023, the Board appointed Ms. Cheryl Clary, Executive Director of Finance and Administration, as Treasurer of the Irvine Ranch Water District. Mr. Kent Morris has been hired by the District as the new Director of Treasury, and staff recommends that the Board appoint him as Treasurer and that Ms. Clary be appointed Assistant Treasurer, effective immediately.

BACKGROUND:

Annually, the Board authorizes the Treasurer and any Assistant Treasurer to invest District funds in accordance with the Board-approved investment policy. Due to the retirement of Treasurer Jacobson in March 2023, the Board appointed Cheryl Clary, Executive Director of Finance and Administration, as Treasurer of the District effective immediately upon Mr. Jacobson's retirement. With the hiring of Kent Morris as the District’s new Director of Treasury, staff recommends that the Board appoint Kent Morris as the District Treasurer and appoint Cheryl Clary as an Assistant Treasurer.

FISCAL IMPACTS:

None.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

This item was not reviewed by a Committee.

RECOMMENDED MOTION:

THAT THE BOARD APPOINT KENT MORRIS AS THE IRVINE RANCH WATER DISTRICT TREASURER AND APPOINT CHERYL CLARY AS ASSISTANT TREASURER EFFECTIVE APRIL 24, 2023.

LIST OF EXHIBITS:


None.

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April 24, 2023

Prepared by: D. Pardee / C. Smithson

Submitted by: C. Clary

Approved by: Paul A. Cook 

## CONSENT CALENDAR

### FISCAL YEAR 2022-23 IRWD GUIDING PRINCIPLES SCORECARD

#### SUMMARY:

The IRWD Guiding Principles Scorecard through the third quarter of Fiscal Year (FY) 2022-23 are provided as Exhibit “A”. This document reflects the critical performance measures that gauge the District’s key business objectives, based on the Board-adopted Guiding Principles.

#### BACKGROUND:

IRWD’s Guiding Principles Scorecard is based on four Board-adopted Guiding Principles used to achieve its vision. These principles relate to: 1) Customer Service, 2) Resource Management, 3) Employee Development, and 4) Community Leadership. The Scorecard includes measures that reflect operating performance, financial, customer and other key measures that provide an overview of the ongoing operations of IRWD. Staff has also included additional detailed information on certain selected key indicators.

#### FISCAL IMPACTS:

Not applicable.

#### ENVIRONMENTAL COMPLIANCE:

Not applicable.

#### RECOMMENDATION:

RECEIVE AND FILE.

#### LIST OF EXHIBITS:

Exhibit “A” – IRWD Guiding Principles Scorecard

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Exhibit "A"  
**IRVINE RANCH WATER DISTRICT**  
**Guiding Principles Scorecard**  
 Through the Third Quarter of Fiscal Year 2022-23

| Customer Service  |           |           |
|---|-----------|-----------|
| We are dedicated to delivering superior service to our customers. |           |           |
| Measure   | Last Year | This Year |
| Customer Satisfaction   | 96%       | 96%       |
| Electronic Payments Received                                      | 85%       | 88%       |
| Customer Contacts   | 47,216    | 58,769    |
| Delinquent Customers on Payment Arrangements                      | 85        | 1,174     |
| Residential Customers within Water Budget                         | 79%       | 82%       |
| All Customers within Water Budget                                 | 78%       | 82%       |
| Occupancy Certificates  | 1,963     | 1,241     |
| Verified Odor Complaints  | 1         | 1         |
| Verified Water Quality Complaints                                 | 5         | 13        |

| Employee Development  |           |           |
|---|-----------|-----------|
| We are committed to recruiting and retaining top quality employees and to providing a workplace environment, training, and a recognition and reward system that enhances employee performance and satisfaction. |           |           |
| Measure   | Last Year | This Year |
| Participation in 457 Retirement   | 90%       | 89%       |
| Employee Retention  | 95%       | 93%       |
| OSHA Days Away, Restricted, or Transferred per 100 employees  | 4.1       | 2.3       |
| Cross Training Opportunities  | 1         | 9         |
| Interns Employed  | 9         | 17        |
| Recognition Awards Given  | 109       | 118       |

| Community Leadership  |           |           |
|---|-----------|-----------|
| We will share our resources with the community through education, policy leadership and employee involvement. |           |           |
| Measure   | Last Year | This Year |
| Water Efficiency Website Hits*  | 43        | 87        |
| Billing Website hits*   | 398       | 81        |
| Social Media Impressions*   | 204       | 12,867    |
| Student Participation in Water Education Programs   | 1,849     | 1,467     |
| State Legislative & Regulatory Hours Spent  | 1,129     | 1,068     |
| Outreach Events   | 24        | 23        |
| Industry Awards and Honors  | 7         | 8         |



| Resource Management  |           |           |
|--|-----------|-----------|
| We are dedicated to providing, conserving, and maximizing the efficient use and reuse of water and renewable resources to the benefit of our customers and to enhance the environment. |           |           |
| Measure  | Last Year | This Year |
| Planned Maintenance Completed  | 72%       | 70%       |
| Potable Water Supply (AF)  | 43,762    | 40,735    |
| Non-Potable Water Supply (AF)  | 27,071    | 23,981    |
| Irvine Lake Storage (AF)   | 4,049     | 17,028    |
| Recycled Water Storage (AF)  | 4,112     | 3,505     |
| Sewage Treatment Cost per MG   | \$3,052   | \$3,566   |
| Capital Spending vs Budget   | 87%       | 80%       |
| AQMD Reported Incidents  | 20        | 7         |
| Plant Incidents (NPDES)  | 0         | 0         |
| Sewer Spills (Non-private)   | 2         | 0         |

\* In Thousands

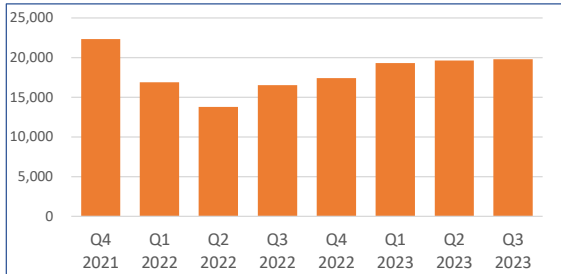
# IRVINE RANCH WATER DISTRICT

## Guiding Principles Closer Perspective

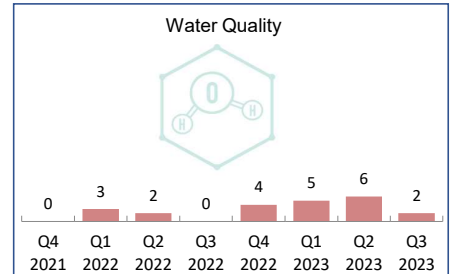
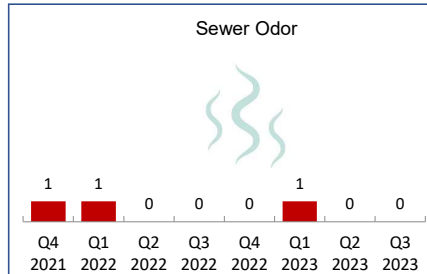
### Through the Third Quarter of Fiscal Year 2022-23

#### Customer Service

##### Customer Contacts



##### Verified Complaints

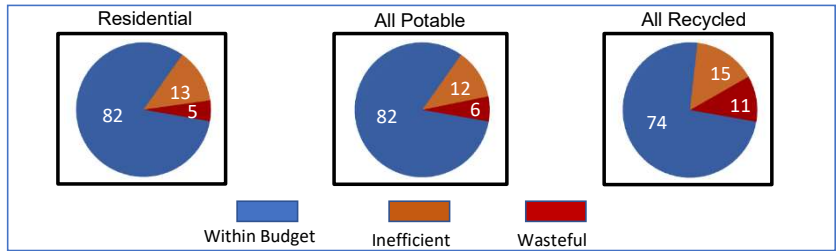


##### Certificates of Occupancy



|                   | Apartment  | Condominium | House      |
|-------------------|------------|-------------|------------|
| <b>FY 2022-23</b> | <b>146</b> | <b>554</b>  | <b>541</b> |
| <b>FY 2021-22</b> | <b>557</b> | <b>926</b>  | <b>480</b> |

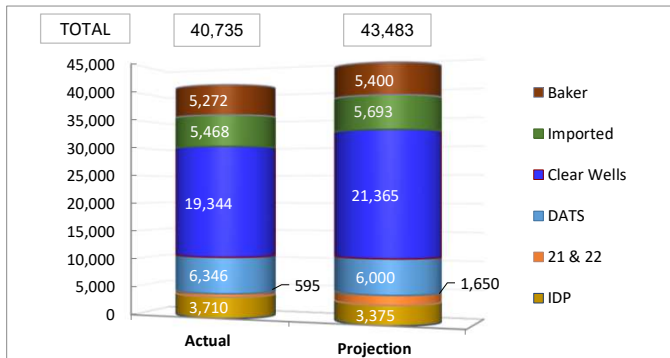
##### Percentage of Customers within Water Budget



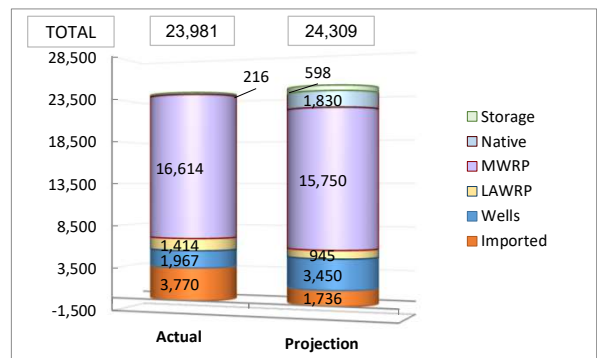
#### Resource Management

##### Water Supply (in Acre Feet)\*

##### Potable

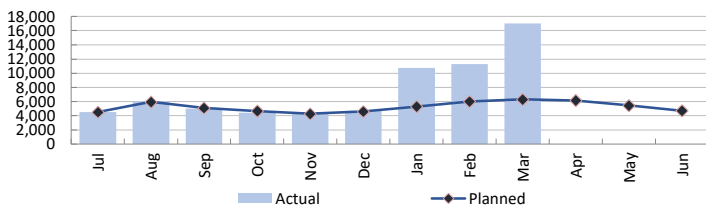


##### Recycled

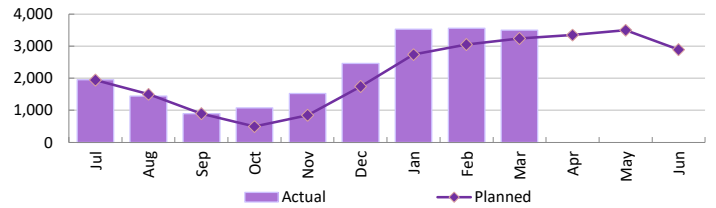


##### Reservoir Storage (in Acre Feet)

##### Irvine Lake



##### Recycled



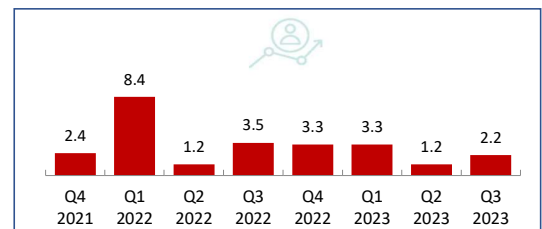
##### Regulatory Compliance




|              |         |         |         |         |         |         |         |         |
|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
| AQMD         | 3       | 9       | 4       | 7       | 6       | 3       | 0       | 4       |
| Plants       | 1       | 0       | 0       | 0       | 2       | 0       | 0       | 0       |
| Sewer Spills | 1       | 0       | 0       | 2       | 2       | 0       | 0       | 0       |
|              | Q4 2021 | Q1 2022 | Q2 2022 | Q3 2022 | Q4 2022 | Q1 2023 | Q2 2023 | Q3 2023 |

##### Employee Development

##### Safety: Days Away, Restricted, Transferred



April 24, 2023  
Prepared by: J. Davis  
Submitted by: K. Morris / C. Clary  
Approved by: Paul Cook 

## CONSENT CALENDAR

### OTHER POST-EMPLOYMENT BENEFITS TRUST AGREEMENT

#### SUMMARY:

On January 23, 2023, the IRWD Board approved establishing a new Section 115 Trust (OPEB Trust) for the purpose of funding a portion of IRWD's Other Post-Employment Benefits (OPEB) liability. On March 13, 2023, the IRWD Board approved an initial funding of \$10 million into the OPEB Trust. Staff recommends that the Board approve the adoption of the declaration of Trust.

#### BACKGROUND:

IRWD recognizes that defined benefit plans and related future pension obligations can pose significant financial issues for government agencies. The District has taken a proactive approach to address its future pension obligation, and in 2013 established an irrevocable trust to substantially fund its CalPERS pension unfunded liability. The IRWD Board has also approved establishing an OPEB Trust to fund a portion of its unfunded OPEB liability.

Future funding contributions to the OPEB Trust will be made at the District's discretion, as well as the eventual transfers of funds from the Trust to meet OPEB obligations. Similar to IRWD's Trust for its pension unfunded liability, investment policy and asset allocation decisions relating to the OPEB Trust will be made by the 115 Trusts Board, composed of two members from the IRWD Board of Directors (specifically, the members of the Finance and Personnel Committee) and the IRWD General Manager. Legal counsel has drafted a resolution for adoption by the Board approving the *Irvine Ranch Water District OPEB Trust*, attached as Exhibit "A".

To date, the IRS has issued numerous Private Letter Rulings supporting that OPEB Trusts have tax-exempt status and have been used by many public agencies to pre-fund their OPEB obligations. It appears that a separate letter ruling to confirm its tax-exempt status is not needed; staff and legal counsel recommend not obtaining a letter ruling.

#### FISCAL IMPACTS:

None

#### 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:

Establishing and funding a OPEB trust was discussed with the Finance and Personnel Committee at its November 21, 2022, December 6, 2022, January 16, 2023 and March 6, 2023 meetings.

RECOMMENDATION:

THAT THE BOARD ADOPT THE FOLLOWING RESOLUTION BY TITLE:

RESOLUTION NO. 2023-7

RESOLUTION OF THE BOARD OF DIRECTORS  
OF THE IRVINE RANCH WATER DISTRICT  
APPROVING DECLARATION OF TRUST FOR THE  
IRVINE RANCH WATER DISTRICT  
OPEB SECTION 115 TRUST

LIST OF EXHIBITS:

Exhibit "A" – Resolution Approving the Declaration of Trust OPEB Section 115

RESOLUTION NO. 2023-7

RESOLUTION OF THE BOARD OF DIRECTORS  
OF THE IRVINE RANCH WATER DISTRICT  
APPROVING DECLARATION OF TRUST FOR  
OPEB SECTION 115 TRUST

A. The Irvine Ranch Water District (the "**District**") provides retiree health benefits and other post-employment benefits other than pension benefits ("**OPEB**") to its eligible former employees and their beneficiaries.

B. The District intends to set aside funds that will be held in trust for the purpose of funding OPEB.

C. California Constitution Article XIII B, Section 5 and California Government Code Sections 53201, 53206, and 53622 authorize the legislative body of a local agency to establish an OPEB trust.

D. The Board of Directors determines that it is in the best interest of the District to establish a single trust for the purpose of prefunding OPEB, which trust (i) is intended to qualify as a tax-exempt trust performing an essential governmental function within the meaning of Section 115 of the Internal Revenue Code, (ii) receives contributions from the District in amounts and at times determined by the District in its sole discretion, and (iii) makes disbursements to pay OPEB and allocable expenses of administering the Trust and the OPEB Plans, in amounts and times determined by the District in its sole discretion.

E. In accordance with California Constitution Article XVI, Section 17, the Board intends to delegate to the Irvine Ranch Water District 115 Trusts Board ("Trustee") responsibility for the investment, control, and management of the trust assets.

The Board of Directors of the Irvine Ranch Water District therefore resolves as follows:

Section 1. The declaration of trust establishing a trust to be known as the "Irvine Ranch Water District OPEB 115 Trust" (the "**Trust**") is hereby approved substantially in the form attached as Exhibit A, to be effective upon adoption of this resolution.

Section 2. The President and Secretary of the District are hereby authorized and directed to execute the Trust, with any changes, insertions and deletions as are approved by the District's Executive Director of Finance or Treasurer, with the concurrence of the President, which approval will be conclusively evidenced by execution of the Trust.

Section 3. The District Treasurer and Assistant Treasurer are each hereby authorized and directed to make contributions of District assets to the Trust in the amounts and at the times established from time to time by the Board of Directors.

Section 4. The District's Executive Director of Finance, Treasurer, and Assistant Treasurer are each hereby authorized and directed to (i) direct the Trustee to make disbursements from the Trust in accordance with the Trust's terms, (ii) take any actions as to which the Trust requires or permits a direction of the District, within parameters established from time to time by the Board of Directors, and (iii) take all other appropriate steps to implement the purpose and intent of this Resolution.

Section 5. This Resolution takes effect immediately upon its adoption.

ADOPTED, SIGNED AND APPROVED this 24<sup>th</sup> day of April, 2023.

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

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

APPROVED AS TO FORM:  
HANSON BRIDGETT LLP

By: \_\_\_\_\_  
General Counsel

**DECLARATION OF TRUST  
FOR THE  
IRVINE RANCH WATER DISTRICT  
OPEB 115 TRUST**

**TABLE OF CONTENTS**

|   | Page |
|---|------|
| ARTICLE 1 DEFINITIONS.....                                      | 1    |
| ARTICLE 2 ESTABLISHMENT AND PURPOSE OF THE TRUST .....          | 2    |
| ARTICLE 3 GENERAL TRUST PROVISIONS.....                         | 2    |
| ARTICLE 4 TRUSTEE .....   | 3    |
| ARTICLE 5 INVESTMENTS.....                                      | 6    |
| ARTICLE 6 PAYMENTS FROM TRUST .....                             | 7    |
| ARTICLE 7 TAXES, EXPENSES AND COMPENSATION OF THE TRUSTEE ..... | 7    |
| ARTICLE 8 RECORDKEEPING AND VALUATION .....                     | 7    |
| ARTICLE 9 STANDARD OF CARE .....                                | 8    |
| ARTICLE 10 AMENDMENT AND TERMINATION .....                      | 8    |
| ARTICLE 11 MISCELLANEOUS .....                                  | 9    |



**DECLARATION OF TRUST  
FOR THE  
IRVINE RANCH WATER DISTRICT  
OPEB 115 TRUST**

The Board of Directors (the “Board”) of the Irvine Ranch Water District (the “Employer”) hereby makes and enters into this Declaration of Trust in order to establish the Irvine Ranch Water District OPEB 115 Trust (the “Trust”). The Trust is effective upon its adoption by the Board.

WHEREAS, the Employer currently provides retiree-health benefits and other post-employment benefits (“OPEB”) other than pension benefits for its eligible former employees and their beneficiaries;

WHEREAS, the Employer wishes to establish a single-employer trust (“Trust”) and set aside funds in the Trust to prefund the Employer’s OPEB;

WHEREAS, the Employer intends that (i) the Trust’s income will be exempt from federal and state income tax (under section 115 of the Internal Revenue Code with respect to federal income tax), (ii) contributions to the Trust will not be taxable to the Trust’s beneficiaries, and (iii) all assets of the Trust will be irrevocably dedicated to, and will be used for the exclusive purpose of, providing for payments of OPEB and paying the reasonable expenses of administering the Trust and Employer plans providing OPEB, and will not be available to any creditors of Employer;

WHEREAS, the Trust is authorized under sections 53201, 53206, and 53622 of the California Government Code, and Section 5 of Article XIII B of the California Constitution;

WHEREAS, the Employer will assign the responsibility for the investment, control, and management of Trust assets to the Employer’s 115 Trusts Board (“Trustee”) in accordance with and subject to the terms of the Trust; and

WHEREAS, the Board wishes to establish the Trust and formally state the terms under which Trust assets are held in trust by the 115 Trusts Board as Trustee.

NOW THEREFORE, the Board hereby irrevocably establishes the Trust in accordance with the terms and conditions set out below:

**ARTICLE 1  
DEFINITIONS**

- 1.1. “Beneficiary” means a person who is entitled to benefits that are funded with Trust assets.
- 1.2. “Board of Directors” means the Board of Directors of the Employer.
- 1.3. “Code” means the Internal Revenue Code of 1986, as amended.

- 1.4. “Employer” or “District” means the Irvine Ranch Water District.
- 1.5. “Investment Policy Statement” means the statement of policy for investing the assets under the Trust.
- 1.6. “OPEB” means other post-employment health and welfare benefits (other than pensions), including medical, dental, vision, life insurance, long-term care and other similar benefits, provided by the Employer for its eligible former employees.
- 1.7. “OPEB Plans” means the plans, policies, or collective bargaining agreements adopted by the Employer, as amended, under which the OPEB funded by the Trust for the Employer’s Beneficiaries are payable.
- 1.8. “115 Trusts Board” means the three-member board, consisting of the Employer’s General Manager, and the two members of the Finance and Personnel Committee of the Board of Directors, responsible for the investment, control, and management of Trust assets.
- 1.9. “Trust” means this Irvine Ranch Water District OPEB 115 Trust.
- 1.10. “Trustee” means the 115 Trusts Board.

**ARTICLE 2  
ESTABLISHMENT AND PURPOSE OF THE TRUST**

- 2.1. Establishment of Trust. The Board of Directors hereby establishes this Trust to hold and distribute the assets of the Trust in accordance with its terms.
- 2.2. Purpose of the Trust. The Trust is a single-employer trust arrangement established and maintained for the sole purpose of holding assets, comprising the Employer’s contributions and any earnings thereon, to prefund OPEB and pay the reasonable, allocable expenses of administering the Trust and the OPEB Plans. Consistent with its purpose, the Trust is intended to qualify as a tax-exempt trust performing an essential governmental function within the meaning of section 115 of the Code.

**ARTICLE 3  
GENERAL TRUST PROVISIONS**

- 3.1. Irrevocable Trust. The Trust is irrevocable.
- 3.2. Title to and Control Over Trust Assets. The Trustee has the exclusive right, title and interest in and to the assets of the Trust, and assets under the Trust will be controlled and managed exclusively by the Trustee.
- 3.3. Exclusive Purpose. The Trustee will hold all assets of the Trust for the exclusive purpose of prefunding OPEB and defraying reasonable expenses of administering the Trust and the OPEB Plans.

- 3.4. No Diversion. The principal of the Trust, together with any earnings thereon, shall be held in trust by the Trustee separate and apart from any assets of the Employer. Except as provided in Article 10, all of the assets of the Trust and all income thereon are irrevocably dedicated to, and shall be used for the exclusive purpose of, prefunding OPEB for the benefit of the Beneficiaries and for paying the reasonable expenses of administering the Trust and the OPEB Plans. At no time will any Trust assets be used for, or diverted to, any other purposes.
- 3.5. Spendthrift Provision. Assets held in the Trust may not be used to satisfy claims of creditors of the Employer. No Beneficiary shall be deemed a third-party beneficiary of the Trust, nor shall any Beneficiary have the right to compel any payment of any amount from the assets of the Trust or to enforce any duties of any party to or other entity referred to in the Trust. Beneficiaries will not have any preferred claim, lien on, or security interest in, or any beneficial interest in any particular assets of the Trust. Except to the extent allowed by law, the Trust is not subject to attachment or garnishment or other legal process by any creditor of any such Beneficiary, nor shall any Beneficiary have the right to alienate, anticipate, commute, pledge, encumber, or assign any Trust assets.
- 3.6. Contributions. The Employer may, in its sole discretion, at any time make (or cause to be made) contributions of cash or other assets acceptable to the Trustee to the Trust, from the Employer's general assets or any other Employer-owned funds that the Employer deems appropriate. Neither the Trustee nor any Beneficiary nor any other party has any right to compel such contributions or any duty or responsibility to determine whether any such contributions comply with the OPEB Plans or state law; computing the amount or adequacy of any contributions or transfers hereunder; or enforcing the payment of any contributions to the Trust. In addition the Trustee is not responsible for separately accounting for any contributions or transfers to the Trust or for determining the source of these amounts.

#### **ARTICLE 4 TRUSTEE**

- 4.1. Powers and Duties of the Trustee. Solely for purposes of example and without limitation of any power, authority, rights, or privileges conferred herein or otherwise by law, the Trustee has the following powers and authority, to be exercised in its sole discretion:
- (a) To invest and reinvest Trust assets, together with the income therefrom.
  - (b) To establish and maintain a Trust account to which the Trustee will (i) credit all contributions or transfers from the Employer to the Trust and any income and gains attributable to those amounts, and (ii) debit all distributions, transfers from the Trust, and any losses and expenses attributable to those amounts.
  - (c) At the direction of the Employer, to distribute payments from the Trust in accordance with Article 6.
  - (d) To pay the reasonable expenses of the Trust from Trust assets.

- (e) To maintain accounts with, execute transactions through, and lend stocks, bonds or other securities on an adequately secured basis to, any qualified brokerage firm.
- (f) To perform accounting and maintain records of the Trust account.
- (g) To vote upon or tender any stocks, bonds or other securities and to give general or special proxies or powers of attorney with or without power of substitution; to exercise any conversion privileges, subscription rights or other options of which the Trustee receives actual notice, and to make any payments incidental thereto; to consent to or otherwise participate in corporate reorganizations or other changes affecting corporate securities and to delegate discretionary powers and to pay any assessments or charges in connection therewith; and generally to exercise any of the powers of an owner with respect to stocks, bonds, securities or other property held in Trust.
- (h) To deposit or invest all or any part of the assets of the Trust in savings accounts or certificates of deposit or other deposits in a bank or savings and loan association or other depository institution.
- (i) To invest and reinvest any Trust assets in one or more collective investment funds.
- (j) To hold, manage, improve, repair and control all investment property, real or personal, forming part of the Trust; to sell, convey, transfer, exchange, partition, pledge, encumber, lease for any term, even extending beyond the duration of this Trust, and otherwise dispose of the same from time to time.
- (k) To take such actions as may be necessary or desirable to protect the Trust from loss due to the default on mortgages held in the Trust including the appointment of agents or trustees in such other jurisdictions as may seem desirable, to transfer property to such agents or trustees, to grant to such agents such powers as are necessary or desirable to protect the Trust, to direct such agent or trustee, or to delegate such power to direct, and to remove such agent or trustee.
- (l) To settle, compromise or abandon all claims and demands in favor of or against the Trust.
- (m) To borrow money from any source and to execute promissory notes, mortgages, or other obligations and to pledge or mortgage any Trust assets as security.
- (n) To designate and engage the services of such agents, representatives, advisers, counsel and accountants and, as part of its expenses under the Trust, to pay their reasonable expenses and compensation.
- (o) To hold in cash, without liability for interest, such portion of the Trust assets as is pending investment, or payment of expenses, or distribution for OPEB.

- (p) To make, execute and deliver, as the Trustee, any and all deeds, leases, mortgages, conveyances, waivers, releases or other instruments in writing necessary or appropriate for the accomplishment of any powers listed in the Trust.
  - (q) To register securities, or any other property, in its name or in the name of any nominee, with or without indication of the capacity in which property shall be held, or to hold securities in bearer form and to deposit any securities or other property in a depository or clearing corporation.
  - (r) To pay or cause to be paid from the Trust any and all real or personal property taxes, income taxes or other taxes with respect to the Trust.
  - (s) To exercise all of the further rights, powers, options and privileges granted, provided for, or vested in trustees generally under applicable state law so that the powers conferred upon the Trustee herein shall not be in limitation of any authority conferred by law or under the Trust, but shall be in addition thereto; provided that such powers satisfy applicable state law requirements (if any).
  - (t) To do any other acts which the Trustee deems necessary or appropriate for the protection of the Trust.
- 4.2. Custody of Trust Assets. The Trustee may designate another person to act as custodian of the Trust assets. The Trustee is authorized to re-delegate such custodial duties to one or more banks. Each custodian so designated will receive and hold as part of the Trust any Trust assets transferred to it by the Trustee.
- 4.3. Delegation of Investment Authority. The Trustee may delegate, consistent with its fiduciary duties, all or part of its power and authority to invest Trust assets, including delegating to investment managers. All rights associated with assets of the Trust will be exercised by the Trustee or the person or persons designated by the Trustee, and will in no event be exercisable by or rest with Beneficiaries. Any investment manager appointed by the Trustee will have the investment powers granted the Trustee except to the extent the investment manager's powers are specifically limited by the Trustee.
- 4.4. Reliance. In the performance of its duties hereunder, the Trustee is entitled to rely on, and is under no obligation to investigate instructions or data received from the Employer, including whether the amount of contributions made to the Trust by the Employer comply with the OPEB Plans. Accordingly, the Trustee will not be liable for action or inaction that is caused directly or indirectly by erroneous or late instructions or data furnished by the Employer.
- 4.5. Annual Audit. The Trustee may appoint a responsible accounting firm to conduct an annual audit of the Trust at the sole expense of the Employer. The results of such audit shall be provided to the Employer.

## ARTICLE 5 INVESTMENTS

- 5.1. Trustee. The Trustee will hold and administer Trust assets without distinction between principal and income, and will have exclusive authority and responsibility for the management and investment of Trust assets.
- 5.2. Combining of Assets for Investment. The Trustee may commingle, for investment or administration purposes, the assets (or a portion of the assets) of the Trust in any group trust within the meaning of section 401(a)(24) of the Code, but only if the commingled trust qualifies as tax exempt under Revenue Ruling 2011-1 and any subsequent relevant guidance from the Internal Revenue Service.
- 5.3. Investment Policy Statement. The Trustee will establish an Investment Policy Statement to invest the assets of the Trust in accordance with the principles set forth in the Investment Policy Statement in any investments permitted under the Trust.
- 5.4. Broker Executed Investments. Transactions in investments which require execution through a broker shall be executed through such broker or brokers as the Trustee may select. The Trustee will hold all right, title, and interest in Trust assets at all times, and the Trustee shall serve as sole custodian with respect to Trust assets, except to the extent that the Trustee has, in accordance with Section 4.2, specifically delegated such custodianship to another person.
- 5.5. Asset Allocation.
  - (a) The Trustee will determine the asset allocation of investments for the assets in the Trust in its judgment from time to time in light of the anticipated amounts of cash required for distributions for OPEB or expenses, and the principles set forth in the Investment Policy Statement. The Trustee will execute the Investment Policy Statement by investing the Trust assets in investments that the Trustee determines in the exercise of its judgment will further the principles set forth in the Investment Policy Statement without any obligation to consult with or obtain the approval of the Employer.
  - (b) The Trustee will reassess and may alter the asset allocation of the Trust at least annually. The Trustee will “rebalance” the investments of the Trust as needed to maintain the ratios of the asset allocation of the Trust then in effect. In addition, the Trustee will, from time to time, review the most recent relevant actuarial data and consult with the Employer to determine whether there are reasons to revise the Investment Policy Statement for the Trust. The Trustee will continuously review the performance of the investment of the Trust’s assets and, in its judgment, will purchase or sell investments for the Trust.
- 5.6. Annual Reports. The Trustee will provide to the Employer not less frequently than annually, or at such other time requested by the Employer, an analysis of the performance of the investments of the Trust and a statement of any changes in investments made in such year.

**ARTICLE 6  
PAYMENTS FROM TRUST**

- 6.1. Employer Authority. The Employer has the exclusive authority and responsibility to determine the timing and amount of distributions from the Trust. The Employer will direct the Trustee in writing to disburse amounts from the Trust (a) to pay benefits or expenses under the OPEB Plans, (b) to pay the reasonable administrative expenses of the Trust (including taxes and termination costs), or (c) to reimburse the Employer for paying any amounts described in this Section 6.1. The Employer may not direct that Trust assets be disbursed for any other purpose.
- 6.2. Trustee Authority. Except as provided in Article 7, the Trustee will not make or authorize disbursements from the Trust without first receiving written direction from the Employer.
- 6.3. Trustee Reliance. Except as otherwise provided by law, the Trustee will be fully protected in making payments out of the Trust at the Employer's written direction. The Trustee's sole obligation as to those disbursements will be to observe the instructions of the Employer to the extent that the Trust has assets to make disbursements as instructed by the Employer. Nothing in the Trust constitutes a guarantee that Trust assets will be sufficient to pay any OPEB.

**ARTICLE 7  
TAXES, EXPENSES AND COMPENSATION OF THE TRUSTEE**

- 7.1. Reimbursement of Expenses. At the time and in the manner determined in its sole discretion, the Trustee may disburse funds from the Trust to pay all reasonable expenses of administering the Trust, to the extent not paid by the Employer. For this purpose, reasonable expenses include, but are not limited, to the following: taxes payable by the Trust, legal fees and expenses, and insurance premiums.

**ARTICLE 8  
RECORDKEEPING AND VALUATION**

- 8.1. Trust Records. The Trustee will keep accurate and detailed records of all investments, receipts, disbursements, and all other transactions, including such specific records as may be agreed upon in writing between the Employer and the Trustee with respect to the Trust.
- 8.2. Annual Reports. Within 180 days following the close of each calendar year (or any other period for which the Employer requests a report), the Trustee will deliver to the Employer a written account of the Trust during such period, setting forth all deposits, investments, receipts, disbursements and other transactions effected by it with respect to the Trust, including a description of transfers made and income received by the Trust, all securities and investments purchased and sold with the cost or net proceeds of such purchases or sales (accrued interest paid or receivable being shown separately), all disbursements for the payment of OPEB or administrative expenses (any amounts paid to

the Trustee shown separately), or other costs paid from the Trust, and showing all cash, securities and other property held in the Trust at the end of such period.

- 8.3. Valuation. All securities will be valued at fair market value as of the date of valuation, as determined by the Trustee on the basis of all available information that the Trustee deems reasonable.

## **ARTICLE 9 STANDARD OF CARE**

- 9.1. Standard of Care. The Trustee, when making, selling or otherwise managing investments of the Trust, will discharge its duties with respect to the investment of the Trust (a) solely in the interest of, and for the exclusive purposes of holding, investing and making payments of OPEB for the benefit of Beneficiaries, maximizing the amount available for paying OPEB, minimizing Employer contributions thereto, and paying reasonable expenses of administering the Trust and the OPEB Plans, and (b) with the care, skill, prudence, and diligence under the circumstances then prevailing that a prudent person acting in a like capacity and familiar with these matters would use in the conduct of an enterprise of a like character and with like aims. The Trustee will diversify the investments of the assets so as to minimize the risk of loss and to prudently and reasonably maximize the rate of return, in accordance with the Investment Policy Statement.

## **ARTICLE 10 AMENDMENT AND TERMINATION**

- 10.1. Amendment. The Employer may amend the Trust at any time. No amendment, however, will be effective at any time before the satisfaction of all liabilities with respect to Beneficiaries under the Trust to the extent that it would cause any part of the Trust to be used for, or diverted to, purposes other than for the exclusive purposes of prefunding OPEB for Beneficiaries and defraying the reasonable expenses of administering the Trust and the OPEB Plans.
- 10.2. Termination of Trust. The Employer reserves the right to terminate the Trust, provided that, except as provided in Sections 10.3 and 10.4, in no event may any Trust assets revert to the Employer before satisfaction of all OPEB liabilities with respect to the Beneficiaries of the Employer for whom the Trust was established. Upon termination of the Trust, the Trust will continue to exist and the Trustee will continue to have all powers necessary or desirable for the orderly liquidation and distribution of Trust assets in accordance with the provisions hereof until all Trust assets have been distributed. The Trustee will pay out Trust assets in the following order of priority: (a) reasonable administrative expenses of the Trust (including taxes and termination costs), (b) reasonable administrative expenses of the OPEB Plans, and (c) benefits under the OPEB Plans. If the Employer's obligation to provide benefits under the OPEB Plans terminates, the Trustee will continue to maintain the Trust, and shall have all of the powers and duties of Trustee, until amounts described in the preceding sentence have been fully paid.



Any assets remaining in the Trust will be paid to the Employer to the extent permitted by law and consistent with the requirements of section 115 of the Code.

- 10.3. Return of Contributions Due to Mistake of Fact. At the written direction of the Employer and after receipt of any indemnification that the Trustee may require from the Employer, the Trustee will return any contribution made by the Employer due a mistake of fact, excluding any earnings but reduced by any losses, to the Employer within one year after the Employer discovers the mistake.
- 10.4. Reversion. The Employer will not have any beneficial interest in the Trust or receive any amounts upon termination of the Trust or at any other time, except as provided in this Article 10.

## **ARTICLE 11 MISCELLANEOUS**

- 11.1. No Vested Rights. The Employer has created this Trust solely to provide a vehicle for funding OPEB. The establishment, maintenance, and operation of the Trust do not create, confer, or guarantee any implied or express rights, entitlements, or claims for any person, including but not limited to employees, retirees, beneficiaries, or other individuals or entities, to benefits under the separate OPEB Plans or any other plans, programs, or arrangements, whether funded by this Trust or otherwise. Additionally, no person has any implied or express right to any assets under the Trust or to have any OPEB funded by Trust assets.
- 11.2. Choice of Law. The Trust shall be governed by, and interpreted in a manner consistent with, the laws of the State of California and, to the extent applicable, the Internal Revenue Code.
- 11.3. Severability. In the event any provision of this Trust is held to be invalid for any reason, such invalidity shall not affect any other provisions of the Trust and the Trust shall be construed and enforced as if the invalid provision had never been included.

IN WITNESS WHEREOF, in accordance with Resolution \_\_\_\_\_ of the District's Board of Directors, the person(s) below hereby executes this document effecting the establishment of the Trust on this \_\_ day of \_\_\_\_\_, 2023.

**IRVINE RANCH WATER DISTRICT**

By: \_\_\_\_\_  
Karen McLaughlin, President of the Board  
of Directors of the Irvine Ranch Water  
District

[SEAL]


ATTEST:

\_\_\_\_\_  
Secretary of the Board of Directors of the  
Irvine Ranch Water District

April 24, 2023

Prepared by: M. Marcacci/J. McGhee/R. Mori

Submitted by: K. Burton

Approved by: Paul A. Cook 

## CONSENT CALENDAR

### REHABILITATION OF WELL OPA-1 BUDGET ADDITION AND CHANGE ORDER

#### SUMMARY:

In accordance with the Per- and Polyfluoroalkyl Substances (PFAS) Treatment Facilities Agreement between IRWD and Orange County Water District (OCWD), OCWD is funding and managing the design and construction of an ion exchange (IX) treatment system to remove PFAS from the water produced at Well Orange Park Acres (OPA)-1. Construction of the treatment system is underway. During construction, the contractor performed a downhole video survey of the well that identified the need to rehabilitate the well prior to placing the IX treatment system into service. In accordance with the Agreement, the costs associated with well rehabilitation are IRWD's responsibility. Staff recommends that the Board:

- Authorize the addition of Project 12594 to the FY 2022-23 Capital Budget in the amount of \$557,500; and
- Authorize the General Manager to accept OCWD's construction contract change order with Innovative Construction Solutions (ICS) in the amount of \$387,476.40.

#### BACKGROUND:

PFAS compounds have emerged as "contaminants of concern" primarily due to human health impacts. Several of these compounds have been detected in significant concentrations in parts of the groundwater basin. IRWD's Well OPA-1 is impacted by the PFAS contamination as are drinking water wells operated by nine other groundwater producer agencies. The location of Well OPA-1 is shown on Exhibit "A".

In response to the contamination of the groundwater basin, OCWD is implementing its PFAS Policy that was developed with input from IRWD consistent with IRWD policy principles. OCWD developed a program to work with the impacted groundwater producer agencies to fund a substantial portion of the design, construction, operation, and maintenance of facilities to remove PFAS from water produced from drinking water wells in the affected areas of the groundwater basin.

In 2020, IRWD entered into an Agreement with OCWD and nine other groundwater producer agencies that facilitates OCWD funding 100% of the design and construction costs and 50% of the operation and maintenance costs for treatment facilities to remove PFAS contamination at affected drinking water wells. Last year, OCWD awarded a construction contract to ICS to construct an IX treatment system to remove PFAS from the water produced at IRWD's Well OPA-1. Construction of the treatment system is underway.

Rehabilitation of Well OPA-1 Change Order:

During construction of the IX treatment facilities, the contractor performed a downhole video survey of Well OPA-1 that identified the need to rehabilitate this well. OCWD negotiated a change order with ICS in the amount of \$387,476.40, for the rehabilitation work. Rehabilitation activities include mechanical cleaning, nylon and/or wire brushing, air bursting, chemical addition, swabbing, air lifting, and mechanical development to break up and remove consolidated material caused by microbial and inorganic fouling. In accordance with the Agreement, the costs associated with well rehabilitation are IRWD's responsibility.

Staff reviewed the change order, presented as Exhibit "B", and found it acceptable. The proposed well rehabilitation activities are similar in scope and fee to other recently completed IRWD well rehabilitation projects. Best Drilling, who will perform the well rehabilitation work as a subcontractor to ICS, has successfully performed these same services on many of IRWD's other wells.

The OCWD Board approved the construction contract change order on March 15, 2023.

FISCAL IMPACTS:

Rehabilitation of Well OPA-1, Project 12594, needs to be added to the FY 2022-23 Capital Budget as shown below. This project will be funded 100% by the Water Replacement Fund.

| Project No. | Current Budget | Addition <Reduction> | Total Budget |
|-------------|----------------|----------------------|--------------|
| 12594       | \$-0-          | \$557,500            | \$557,500    |

ENVIRONMENTAL COMPLIANCE:

This project is subject to the California Environmental Quality Act (CEQA) and in conformance with California Code of Regulations Title 14, Chapter 3, Article 6, a Notice of Intent to adopt a Mitigated Negative Declaration was filed with the County of Orange on June 15, 2011. Pursuant to State Guideline § 15073, the IS/MND was made available for public review for a period of 30 days from June 15, 2011 through July 14, 2011. The IS/MND was modified and circulated for a review period of 30 days from April 23, 2012 to May 24, 2012. The IS/MND was adopted by IRWD Board of Directors at its meeting on June 11, 2012. Addendum No. 1 was prepared to the IS/MND pursuant to CEQA Section 15164 and was approved and adopted by the IRWD Board on September 27, 2021. A Notice of Determination for Addendum No. 1 was filed on September 28, 2021.

COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on April 19, 2023.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE ADDITION OF PROJECT 12594, REHABILITATION OF WELL OPA-1, TO THE FY 2022-23 CAPITAL BUDGET IN THE AMOUNT OF \$557,500 AND AUTHORIZE THE GENERAL MANAGER TO ACCEPT ORANGE COUNTY WATER DISTRICT'S CONSTRUCTION CONTRACT CHANGE ORDER WITH INNOVATIVE CONSTRUCTION SOLUTIONS IN THE AMOUNT OF \$387,476.40.

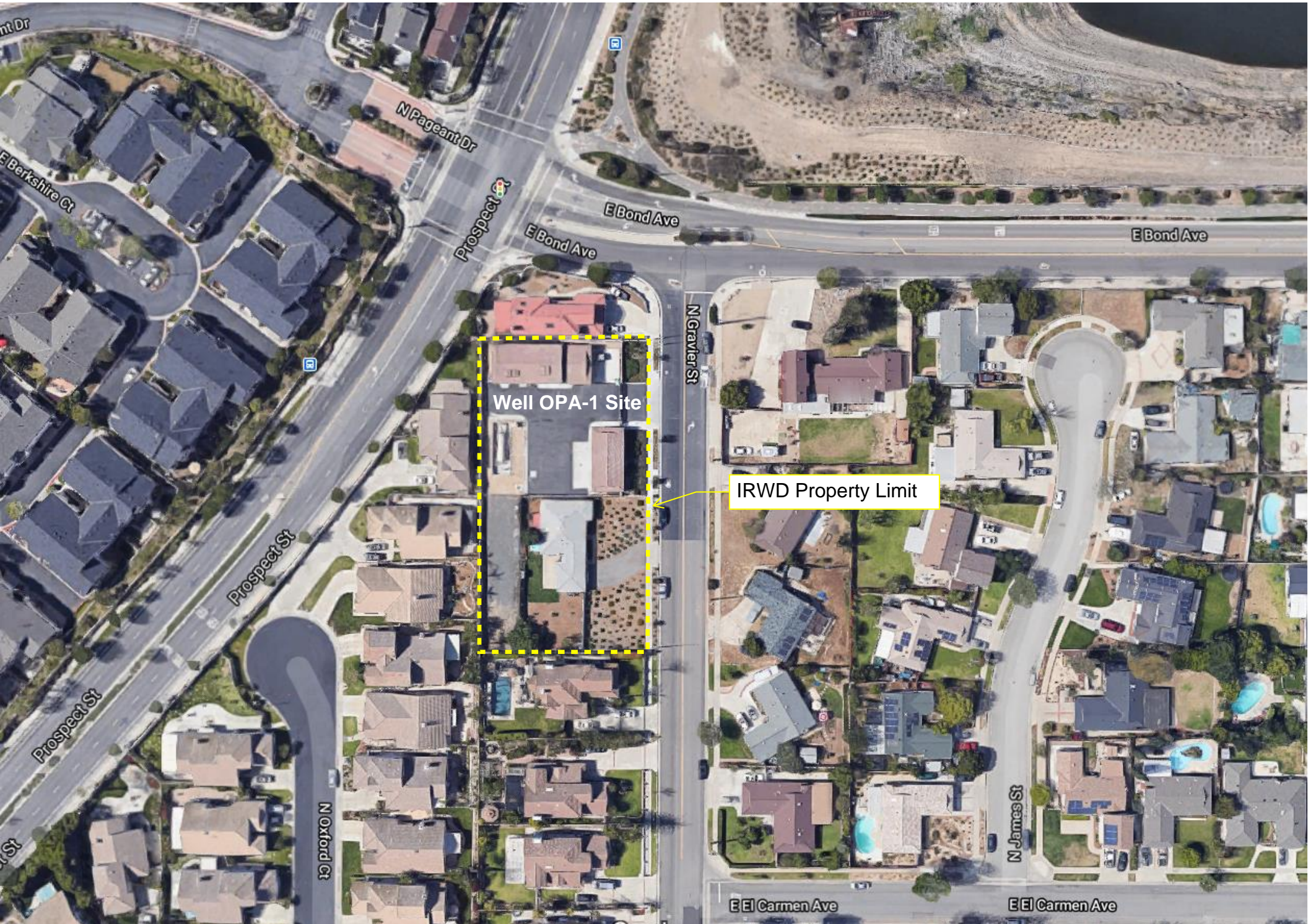
LIST OF EXHIBITS:

Exhibit "A" – Location Map

Exhibit "B" – ICS Change Order

Note: This page is intentionally left blank.





Well OPA-1 Site

IRWD Property Limit



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## Change Order Request

DATE: 3/20/2023

|  |  |
|--|--|
| CHANGER ORDER # <u>004</u><br>ICS PROJECT NO.: <u>SC-22-1012</u><br>PROJECT NAME: <u>IRWD OPA WELL 1 PFAS TREATMENT SYSTEM</u><br>PROJECT LOCATION: <u>678 N GRAVIER ST</u><br><u>ORANGE, CA 92869</u> | CLIENT NAME: <u>OCWD</u><br>CLIENT ADDRESS: <u>18700 WARD ST</u><br><u>FOUNTAIN VALLEY, CA 92708</u><br>CLIENT REFERENCE NO. _____ |
|--|--|

**Pursuant to the Contract and Schedule of Values executed on 5/02/2022, this Change Order Request is issued to incorporate the following changes into our above agreement:**

Section 1: Change in scope of work and reason: Well Rehab Work Requested By Owner

\_\_\_\_\_

\_\_\_\_\_

Section 2: Change in contract price (if any) and basis: \$387,476.40

\_\_\_\_\_

\_\_\_\_\_

*\*The price includes all labor, materials, tools, and equipment in order to properly complete the specified scope of work. The work will be performed in accordance with industry standards and applicable regulatory requirements\*.*

Section 3. Time required to perform the change in scope of work: 50 Days

Section 4. Change to contract schedule: 50 Days

Section 5. Change Orders are incorporated as a formal contract change of the contract. ICS agrees to diligently perform the change in scope of work described in Section "1" above. All work will be performed in accordance with the conditions outlined in the Purchase Order, Contract, and accompanying contract documents.

|                                      |                       |
|--------------------------------------|-----------------------|
| Original Contract Amount .....       | \$3,485,000.00        |
| Total Previous Change Orders .....   | \$175,766.28          |
| <b>SUBTOTAL .....</b>                | <b>\$3,660,766.27</b> |
| Amount of this Change Order .....    | \$387,476.40          |
| <b>CURRENT CONTRACT AMOUNT .....</b> | <b>\$4,048,242.67</b> |

|                           |             |           |
|---------------------------|-------------|-----------|
| Submitted By: _____       | Chris Baker | 3/20/2023 |
| Project Manager Signature | Print Name  | Date      |

**UNDERSTOOD AND ACCEPTED:**

|                                 |            |       |
|---------------------------------|------------|-------|
| Approved By: _____              | _____      | _____ |
| Client Representative Signature | Print Name | Date  |

**OCWD IRWD OPA WELL 1 PFAS TREATMENT SYSTEM**

| SECTION 1       | WELL REHAB | HOURS/WEEKS          | QUANTITY | TOTAL | RATE | COST          | MU%           | TOTAL               |               |  |
|-----------------|------------|----------------------|----------|-------|------|---------------|---------------|---------------------|---------------|--|
| SUB             |            |                      |          |       |      |               |               |                     |               |  |
|                 | 3          | BEST DRILLING & PUMP |          | 1     | LS   | \$ 333,600.00 | \$ 333,600.00 | 15%                 | \$ 383,640.00 |  |
|                 |            |                      |          |       |      |               |               | \$ 383,640.00       |               |  |
| <b>SUBTOTAL</b> |            |                      |          |       |      |               |               | <b>\$383,640.00</b> |               |  |
| BOND PREMIUM    |            |                      |          |       |      |               |               |                     |               |  |
|                 | 1          | Bond Premium         |          | 1     | LS   |               |               | 1%                  | \$ 3,836.40   |  |
| <b>TOTAL</b>    |            |                      |          |       |      |               |               | <b>\$387,476.40</b> |               |  |

|    | A                 | B   | C         | D          | E                 | F            | G               | H                       | I |
|----|-------------------|---|-----------|------------|-------------------|--------------|-----------------|-------------------------|---|
| 1  |                   | <b>Best Drilling and Pump</b>   |           |            |                   |              |                 | Date: 3/2/2023          |   |
| 2  |                   | 1640 Pellisier Rd   |           |            |                   |              |                 |                         |   |
| 3  |                   | Colton, CA 92324  |           |            |                   |              |                 |                         |   |
| 4  |                   |   |           |            |                   |              |                 |                         |   |
| 5  |                   |   |           |            |                   |              |                 |                         |   |
| 6  |                   |   |           |            |                   |              |                 |                         |   |
| 7  |                   | <b>Project No:</b> _____  |           |            |                   |              |                 | <b>Contract #</b> _____ |   |
| 8  |                   | <b>Project:</b> Rehabilitation of IRWD OPA 1  |           |            |                   |              |                 |                         |   |
| 9  |                   | <b>Contractor:</b> Best Drilling and Pump Inc.  |           |            |                   |              |                 | <b>Trade:</b> C-57      |   |
| 10 |                   |   |           |            |                   |              |                 |                         |   |
| 11 | <b>Bid Item #</b> | <b>DESCRIPTION</b>  | <b>UM</b> | <b>QTY</b> | <b>Unit Price</b> | <b>Labor</b> | <b>Material</b> | <b>SCHEDULED VALUE</b>  |   |
| 12 |                   | <b>Schedule - IRWD OPA-1</b>  |           |            |                   |              |                 |                         |   |
| 13 | 1                 | <b>Mobilization/ Demobilization</b>   | LS        | 1          | \$ 25,000.00      | \$25,000.00  |                 | \$ 25,000.00            |   |
| 14 | 2                 | Well Redevelopment Air Burst- Air Burst Crew (Typically 2 Men w/ a Truck and Air Burst Equipment) Additionally Best Supplies a Pump Rig with an operator. Air-Burst crew/ Equipment- \$15780/ Best Crew with Pump Rig \$465HR X 8 = \$ 3720                 | LS        | 1          | \$ 19,500.00      | \$19,500.00  |                 | \$ 19,500.00            |   |
| 15 | 3                 | Chemical Treatment (1220 Gallons Of Water Solv BC) approximate 6-8 days of a 2-3 man crew with a Pump Rig and a Support Truck; ( 8 Days @ \$3720 = \$ 29,760) 4 Totes 305 gallons each of waterSolv BC \$15,000 each)                                       | LS        | 1          | \$ 95,000.00      | \$30,000.00  | \$65,000.00     | \$ 95,000.00            |   |
| 16 | 4                 | <b>Mechanical Development</b>   | HRs       | 60         | \$ 550.00         | \$33,000.00  |                 | \$ 33,000.00            |   |
| 17 | 5                 | Treatment and Discharge of redevelopment water (Typically 2 -21K Baker Tanks, 2-3 Months on site, plus hoses, WQ monitoring equipment, Meters, Trash pumps, etc and cleaning and hauling of some fluids) (Banker Tank Rentals \$ 5,000 month per tank)      | LS        | 1          | \$ 30,000.00      | \$10,000.00  | \$20,000.00     | \$ 30,000.00            |   |
| 18 | 6                 | <b>Video Survey</b>   | EA        | 2          | \$ 1,500.00       | \$3,000.00   |                 | \$ 3,000.00             |   |
| 19 | 7                 | Install and Remove Test Pump (Typically 6-8 days of crew to install pump and temporary Discharge and use of Test Pump, Column, tube and shaft, Test Engine/ or VFD ( 8 Days @ \$3720= \$29760: Test Engine Month= \$7500 Test Pump Rental Month = \$ 2,740) | LS        | 1          | \$ 40,000.00      | \$40,000.00  |                 | \$ 40,000.00            |   |
| 20 | 8                 | <b>Pumping Development</b>  | HRs       | 80         | \$ 550.00         | \$44,000.00  |                 | \$ 44,000.00            |   |
| 21 | 9                 | <b>Step Test &amp; Constant Rate Test</b>   | Hrs       | 24         | \$ 550.00         | \$13,200.00  |                 | \$ 13,200.00            |   |
| 22 | 10                | <b>Dynamic Spinner Survey</b>   | LS        | 1          | \$ 8,300.00       | \$8,300.00   |                 | \$ 8,300.00             |   |
| 23 | 11                | <b>Depth Specific Samples</b>   | EA        | 5          | \$ 460.00         | \$2,300.00   |                 | \$ 2,300.00             |   |
| 24 | 12                | <b>Post Pumping Video</b>   | LS        | 1          | \$ 1,500.00       | \$1,500.00   |                 | \$ 1,500.00             |   |
| 25 | 13                | <b>Static Spinner Survey</b>  | LS        | 1          | \$ 4,500.00       | \$4,500.00   |                 | \$ 4,500.00             |   |
| 26 | 14                | <b>Conduct Well Disinfection and Clean up</b>   | LS        | 1          | \$ 5,500.00       | \$5,000.00   | \$500.00        | \$ 5,500.00             |   |
| 27 | 15                | <b>Stand By Time W/ Active Rig</b>  | Hrs       | 16         | \$ 350.00         | \$5,600.00   |                 | \$ 5,600.00             |   |
| 28 | 16                | <b>Stand By Time W/ Inactive Rig</b>  | HRs       | 16         | \$ 200.00         | \$3,200.00   |                 | \$ 3,200.00             |   |
| 29 |                   |   |           |            |                   |              |                 |                         |   |
| 30 |                   | <b>TOTAL</b>  |           |            |                   | \$248,100.00 | \$85,500.00     | \$ 333,600.00           |   |
| 31 |                   |   |           |            |                   |              |                 |                         |   |

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April 24, 2023

Prepared by: K. Welch / E. Lin

Submitted by: C. Clary / P. Weghorst

Approved by: Paul A. Cook



## CONSENT CALENDAR

### RESOLUTION REGARDING APPLICATION FOR GRANT FUNDING FOR THE ORANGE PARK ACRES WELL 1 PFAS TREATMENT PROJECT

#### SUMMARY:

The State Water Resources Control Board is accepting grant funding applications for the planning, design, and construction of projects to address Per- and Polyfluoroalkyl Substances (PFAS) under the Drinking Water Revolving Fund Emerging Contaminants Intended Use Plan (Intended Use Plan). Staff is pursuing the funding opportunity for IRWD's Orange Park Acres (OPA) Well 1 PFAS Treatment System Project that is being paid for and constructed by Orange County Water District (OCWD). OCWD is building the project for IRWD consistent with the existing PFAS Treatment Facilities and Program Agreement (PFAS Treatment Agreement) between IRWD and OCWD.

As part of the application process, the State Board requires that a resolution be adopted by a project owner's governing body. Staff recommends that the Board adopt a resolution authorizing the General Manager to apply for grant funding for the planning, design, and construction of the OPA Well 1 PFAS Treatment Project and authorize the General Manager to execute an amendment to the existing PFAS Treatment Agreement that will facilitate coordinated grant administration and the transfer of the grant funding to OCWD.

#### BACKGROUND:

The Federal Bipartisan Infrastructure Law allocated \$50 million in FY 2022-23 to address PFAS and other emerging contaminants in drinking water systems. A portion of this funding is available through the Intended Use Plan that is being administered by the State Board Division of Financial Assistance. The State Board will provide 100% of the available funding as principal forgiveness to eligible potable water systems. IRWD's OPA Well 1 PFAS Treatment Project would qualify for up to 50% of total eligible costs, up to a maximum of \$5 million. Eligible costs include the planning, design, and construction of the water treatment facilities.

#### OPA Well 1 PFAS Treatment Project:

In April 2020, IRWD entered into a PFAS Treatment Agreement. Under the terms of this agreement, OCWD will plan, design, and construct PFAS treatment facilities for OPA Well 1. Consistent with this agreement, OCWD is also funding the work. IRWD will own and maintain the new treatment system and share the operation and maintenance costs with OCWD. The total project cost is approximately \$6,300,000. Per the PFAS Treatment Agreement, IRWD shall support and assist OCWD in obtaining any grants that may be used by OCWD to fund the project.

Grant Funding Application:

In November 2022, OCWD submitted a grant application to the State Board for seven PFAS projects through the Intended Use Plan. The State Board indicated that OCWD was not a qualified applicant because OCWD does not own and operate any PFAS-contaminated wells. The State Board also indicated that each potable water system must apply separately for the funding and enter into the funding agreement with the State Board. Accordingly, OCWD has requested assistance from IRWD in securing an Intended Use Plan grant for the PFAS treatment system at OPA Well 1.

If grant funding is awarded to the OPA Well 1 project, IRWD would be the recipient of the grant funds as the owner and the operator of the well and the PFAS water treatment system. The grant funds received by IRWD would be paid to OCWD for the planning, design and construction costs of the system. The State Board has indicated that they would work with the IRWD and OCWD to resolve issues in administering the grant.

As part of the grant application process, the State Board requires that a resolution be adopted by an applicant's governing body. The resolution must designate an authorized representative to sign and file documents pertaining to the funding application. Staff recommends the Board adopt the resolution that is provided as Exhibit "A" supporting an application for grant funding from the Intended Use Plan for the OPA Well 1 PFAS Treatment Project.

Addendum to PFAS Treatment Agreement:

It is expected that prior to IRWD executing a grant agreement with the State Board, an amendment to the PFAS Treatment Agreement with OCWD would be prepared to facilitate OCWD providing IRWD with all necessary documents to comply with the grant funding obligations, audits and requirements as well as IRWD providing OCWD the grant funding. Staff recommends that the Board authorize the General Manager to execute an amendment implementing these simple terms.

FISCAL IMPACTS:

The planning, design, and construction of the OPA Well 1 PFAS Treatment Project is being funded by OCWD. Any grant funding received by IRWD for the project will be provided to OCWD consistent with the terms of an addendum to the PFAS Treatment Agreement. IRWD will fund 50% of the operations and maintenance costs once the project is operational.

ENVIRONMENTAL COMPLIANCE:

This OPA Well 1 Project is subject to the California Environmental Quality Act (CEQA) and in conformance with California Code of Regulations Title 14, Chapter 3, Article 6, a Notice of Intent to adopt a Mitigated Negative Declaration was filed with the County of Orange on June 15, 2011. Pursuant to State Guideline § 15073, the IS/MND for the OPA-Well 1 Project was made available for public review for a period of 30 days from June 15, 2011, through July 14, 2011. The IS/MND was modified and circulated for a review period of 30 days from April 23,

2012, to May 24, 2012. The IS/MND was adopted by IRWD Board of Directors at its meeting on June 11, 2012. Addendum No. 1 for the PFAS treatment facilities and corresponding well pumping was prepared to the IS/MND pursuant to CEQA Section 15164 and was approved and adopted by the IRWD Board on September 27, 2021. A NOD for Addendum No. 1 was filed on September 28, 2021.

COMMITTEE STATUS:

Based on timing and urgent necessity, this item was not reviewed by a Committee.

RECOMMENDATION:

THAT THE BOARD AUTHORIZING THE GENERAL MANAGER TO EXECUTE AN AMENDMENT TO THE EXISTING PFAS TREATMENT FACILITIES AND PROGRAM AGREEMENT WITH OCWD THAT WILL FACILITATE COORDINATED GRANT ADMINISTRATION AND TRANSFERRING THE GRANT FUNDING TO OCWD AND ADOPT THE FOLLOWING RESOLUTION BY TITLE:

RESOLUTION NO. 2023-8

RESOLUTION OF THE BOARD OF DIRECTORS OF  
THE IRVINE RANCH WATER DISTRICT  
AUTHORIZING THE GENERAL MANAGER TO  
APPLY FOR AND ACCEPT GRANT FUNDING FROM  
THE STATE WATER RESOURCES CONTROL BOARD FOR  
THE WELL OPA-1 PFAS TREATMENT SYSTEM PROJECT

LIST OF EXHIBITS:

Exhibit "A" – Resolution

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# EXHIBIT "A"

## RESOLUTION NO. 2023-

### RESOLUTION OF THE BOARD OF DIRECTORS OF THE IRVINE RANCH WATER DISTRICT AUTHORIZING THE GENERAL MANAGER TO APPLY FOR AND ACCEPT GRANT FUNDING FROM THE STATE WATER RESOURCES CONTROL BOARD FOR THE WELL OPA-1 PFAS TREATMENT SYSTEM PROJECT

The State Water Resources Control Board (“State Water Board”) is accepting applications for funding for the planning, design and construction of projects to address per- and polyfluoroalkyl substances (“PFAS”) under the Drinking Water Revolving Fund Emerging Contaminants Intended Use Plan (“Intended Use Plan”).

Irvine Ranch Water District (“IRWD”) is eligible to submit a Financial Assistance Application for grant funding for the IRWD Well OPA-1 PFAS Treatment System Project, up to the maximum established by the State Water Board in the Intended Use Plan or as otherwise limited by the State Water Board.

The Board of Directors of IRWD therefore resolves as follows:

Section 1. The General Manager or his designee (the “Authorized Representative”) is hereby authorized and directed to sign and file, for and on behalf of IRWD, a Financial Assistance Application for a financing assistance agreement from the State Water Resources Control Board for the planning, design, and construction of the IRWD Well OPA-1 PFAS Treatment System Project.

Section 2. The Authorized Representative is hereby authorized to provide the assurances, certifications, and commitments required for the Financial Assistance Application, including executing a financial assistance agreement from the State Water Board and any amendments or changes.

Section 3. The Authorized Representative is hereby authorized to represent IRWD in carrying out IRWD’s responsibilities under the financing agreement, including certifying disbursement requests on behalf of IRWD and compliance with applicable state and federal laws.

ADOPTED, SIGNED AND APPROVED this 24<sup>th</sup> day of April 2023.

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

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

APPROVED AS TO FORM:  
Hanson Bridgett, LLP

By: \_\_\_\_\_  
District Counsel

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April 24, 2023

Prepared by: H. Cho / J. Moeder

Submitted by: K. Burton

Approved by: Paul A. Cook *PA*

## ACTION CALENDAR

### RATTLESNAKE DAM GEOTECHNICAL INVESTIGATION AND STABILITY ANALYSIS CONSULTANT SELECTIONS AND BUDGET ADDITION

#### SUMMARY:

The Rattlesnake Dam Geotechnical Investigation and Stability Analysis project will perform geotechnical investigations to obtain additional data that will be used to perform an in-depth stability analysis and seismic evaluation of the dam. Staff recommends that the Board:

- Authorize the addition of Project 12101 to the FY 2022-23 Capital Budget in the amount of \$2,331,000;
- Authorize the General Manager to execute a Professional Services Agreement with AECOM in the amount of \$741,115 for geotechnical investigation services; and
- Authorize the General Manager to execute a Professional Services Agreement with HDR Engineering, Inc. in the amount of \$624,865 for engineering services.

#### BACKGROUND:

The Irvine Company built Rattlesnake Dam in 1959; the dam and associated facilities were acquired by IRWD in 1971. The dam's earthen embankment was built on alluvium fill with a spillway crest at an elevation of 412-feet. The dam initially operated with a maximum storage volume of approximately 1,400 acre-feet of recycled water. In the early 1980's, IRWD and the Division of Safety of Dams (DSOD) evaluated the liquefaction potential of the alluvium foundation. Based on this evaluation, DSOD established a water level restriction six feet lower than the spillway crest to elevation 406-feet. Since 1982, this restriction has reduced the maximum storage volume of Rattlesnake Reservoir to 1,100 acre-feet of recycled water.

As a part of enhancing IRWD's dam safety program and integrating Risk Informed Decision Making (RIDM) as a core component of the program, HDR completed risk analysis on all five of IRWD's dams. Results of the risk analysis for Rattlesnake Dam identified uncertainties associated with seismic performance which led to prioritizing action items focused on reducing the risks. In October 2021, IRWD contracted with HDR to perform a preliminary seismic evaluation of the dam in advance of performing an in-depth seismic analysis and geotechnical investigations. This evaluation confirmed the need for additional geotechnical investigations and an in-depth seismic analysis. Following the evaluation, staff commenced operating the reservoir with a maximum water elevation of 395-feet as an interim risk reduction measure until the completion of an in-depth seismic analysis.

In addition to identifying uncertainties related to seismic performance, the risk analysis also identified opportunities to further understand the performance of the spillway and the potential for internal erosion. Collectively, these uncertainties will be evaluated in an Issue Evaluation Study (IES). Pursuant to completing the IES, HDR and staff completed initial planning activities

including data review, preparation of the Geotechnical Investigation Work Plan, and coordination with DSOD. DSOD completed its review of the Geotechnical Investigation Work Plan and authorized IRWD to proceed with the work.

Geotechnical Investigation Consultant Selection:

In December 2022, staff issued a request for proposal for the Rattlesnake Dam Geotechnical Investigation to six consultants: AECOM, GEI, Genterra, Geopentech, Geosyntec, and Stantec. Stantec declined to submit a proposal due to staffing issues, and Geosyntec teamed with Geopentech. Staff received proposals from AECOM, GEI, Genterra, and the Geopentech/Geosyntec team. Based on AECOM's local team, understanding of the project, experience with geotechnical investigation, and relatively lower fee, staff recommends the selection of AECOM. The consultant evaluation matrix is provided as Exhibit "A", and AECOM's proposal is provided as Exhibit "B".

Issue Evaluation Study Consultant Selection:

IRWD contracted with HDR in 2020 to enhance IRWD's Dam Safety Program and integrate RIDM as a core program component. They are intimately familiar with past evaluations related to the Issue Evaluation Study from their involvement with the risk analysis; and they continue to be a leader in the dam safety industry specifically with their experience in RIDM. In February 2023 at staff's request, HDR submitted a proposal for the Rattlesnake Dam Issue Evaluation Study and Alternatives Analysis. HDR's proposal includes support during the geotechnical investigation phase, performance of geologic and engineering evaluations based on the gathered geotechnical data, updates to the baseline risk analysis and development of risk mitigation measures, and preparation of an IES summary report. HDR's proposal is for \$624,865 and is included in Exhibit "C".

FISCAL IMPACTS:

The Rattlesnake Dam Geotechnical Investigation and Stability Analysis, Project 12101, needs to be added to the FY 2022-23 Capital Budget as shown below. This project will be funded 100% by the Sewer Replacement Fund.

| Project No. | Current Budget | Budget Addition | Total Budget |
|-------------|----------------|-----------------|--------------|
| 12101       | \$-0-          | \$2,331,000     | \$2,331,000  |

ENVIRONMENTAL COMPLIANCE:

This project is categorically exempt from the California Environmental Quality Act (CEQA), in conformance with California Code of Regulation, Title 14, Chapter 3, Section 15306; "Class 6, Information Collection". The Class 6 exemption is applicable for projects that consist of basic data collection, research, experimental management, and resource evaluation activities which do not result in a serious or major disturbance to an environmental resource.

These may be strictly for information gathering purposes, or as part of a study leading to an action which a public agency has not yet approved, adopted, or funded. Pursuant to CEQA Guidelines Section 15062, staff filed a Notice of Exemption with the Orange County Clerk Recorder on October 20, 2022.

COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on April 19, 2023.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE ADDITION OF PROJECT 12101, RATTLESNAKE DAM GEOTECHNICAL INVESTIGATION AND STABILITY ANALYSIS, TO THE FY 2022-23 CAPITAL BUDGET IN THE AMOUNT OF \$2,331,000, AUTHORIZE THE GENERAL MANAGER TO EXECUTE A PROFESSIONAL SERVICES AGREEMENT WITH AECOM IN THE AMOUNT OF \$741,115 FOR GEOTECHNICAL INVESTIGATION SERVICES, AND AUTHORIZE THE GENERAL MANAGER TO EXECUTE A PROFESSIONAL SERVICES AGREEMENT WITH HDR ENGINEERING, INC. IN THE AMOUNT OF \$624,865 FOR ENGINEERING SERVICES.

LIST OF EXHIBITS:

- Exhibit "A" – Consultant Selection Evaluation Matrix
- Exhibit "B" – AECOM Proposal
- Exhibit "C" – HDR Engineering, Inc. Proposal

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# Exhibit "A"

Rattlesnake Dam Geotechnical Investigation  
 Consultant Selection Matrix  
 4/6/2023

|   | Weights | AECOM  | GEI   | Genterra   | Geopentech/Geosyntec   |
|---|---------|--|---|--|--|
| <b>TECHNICAL APPROACH</b>                                 | 50%     |  |   |  |  |
| Technical Approach  | 100%    | 1  | 2   | 3  | 4  |
| Technical Approach  |         | 1.00   | 2.00  | 3.00   | 4.00   |
| <b>EXPERIENCE</b>   | 50%     |  |   |  |  |
| Team  | 100%    | 1  | 2   | 3  | 4  |
| Weighted Score (Experience)                               |         | 1.00   | 2.00  | 3.00   | 4.00   |
| Principal-in-Charge<br>Project Manager<br>Field Geologist |         | Bryan Paine Org<br>Chris Goetz Org<br>Paul Salter, et al. Org  | Dan Wade Oak<br>Todd Crampton Oak<br>Scott Yehl, et al. Oak   | Joe Kulikowski Irv<br>Joe Kulikowski Irv<br>Mike Wolff, et al. Irv                       | Eric Fordham (GP) Irv<br>Rambpd Hadidi (GP) Irv<br>Y. Moriwaki (GP)/D. Morley (GS) Irv |
| QA/QC   |         | Steve FitzWilliam SD   | Iqbal Ahmed Pas   | Andrew Blystra Irv   |  |
| Technical Support   |         | D. Schug/M. Smith  | Nick Oettle, et al. Oak   | Soma Balachandran Irv  | GP and GS Staff<br>Hushmand Associates/Cooper Testing Labs                             |
| Laboratory/Testing<br>Drilling Contractor<br>Geophysics   |         | Adolph Camacho Org<br>Tri-County Drilling<br>GEOVision<br>Kehoe Testing and Drilling<br>BC2 Environmental<br>Innovative Services Group | AP Eng. & Testing et al<br>Taper Drilling<br>GEOVision<br>Kehoe Testing and Drilling<br>ABC Liovin<br>Innovative Services Group | AP Eng. & Testing/Voss Laboratories<br>Gregg Drilling<br>Terra Physics<br>Gregg Drilling | BC2 Environmental<br>Conetec/Kehoe Testing<br>MR Drilling                              |
| CPT<br>Sonic Drilling<br>Test Pit                         |         |  |   |  |  |
| <b>COMBINED WEIGHTED SCORE</b>                            |         | 1.00   | 2.00  | 3.00   | 4.00   |
|   |         | Man-hours  | Man-hours   | Man-hours  | Man-hours  |
| Task 1 Project Management                                 |         | 263  | 306   | 237  | 216  |
| Task 2 Geotechnical Data Collection and Investigations    |         | 1,097  | 1,608   | 1,603  | 1,084  |
| Task 2 Optional Tasks                                     |         | 83   | 0   | 69   | 76   |
| <b>TOTAL HOURS</b>  |         | <b>1,443</b>   | <b>1,914</b>  | <b>1,909</b>   | <b>1,376</b>   |
| <b>FEE</b>  |         |  |   |  |  |
| Task 1 Project Management                                 |         | \$45,440   | \$81,445  | \$58,685   | \$51,600   |
| Task 2 Geotechnical Data Collection and Investigations    |         | \$618,056  | \$766,791   | \$999,643  | \$641,562  |
| Task 2 Optional Tasks                                     |         | \$76,029   | \$1,520   | \$54,498   | \$56,051   |
| <b>Total with Included Optional</b>                       |         | <b>\$739,525</b>   | <b>\$849,756</b>  | <b>\$1,112,826</b>   | <b>\$749,213</b>   |
| Average \$/manhrs   |         | 512  | 444   | 583  | 544  |
| <b>FORCED RANKINGS:</b>                                   |         | 1  | 2   | 3  | 4  |
| Professional Liability Insurance                          |         | Yes  | Yes   | Yes  | Yes  |
| Comm. General Liability Insurance                         |         | Yes  | Yes   | Yes  | Yes  |

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# 1. Scope

*Our approach is centered on establishing high quality geotechnical data that is applicable, comprehensive, and easily incorporated into the Issue Evaluation Study (IES).*



## Project Understanding Background

Rattlesnake Dam is a large earthen embankment dam located on the Rattlesnake Canyon wash tributary to the Peters Canyon Wash, and ultimately San Diego Creek in Orange County. The dam was constructed in 1959 and is classified as an Extremely High downstream hazard potential structure.

### Purpose of Proposed Investigation

IRWD is integrating Risk Informed Decision Making (RIDM) into its dam safety program. As part of the transition to a RIDM-based dam safety program, IRWD contracted with HDR, Inc. (HDR) to complete Semi-Quantitative Risk Analysis (SQRA) on IRWD's portfolio of five extremely high hazard earthen embankment dams. The risk analysis process identified Rattlesnake Dam as the highest total risk in IRWD's dam portfolio. The potential failure mode (PFM) that contributes the most to the total risk of Rattlesnake dam is seismically induced liquefaction of the alluvial foundation that impacts the stability of the embankment. The risk analysis identified areas of uncertainties and opportunities for re-evaluating the stability with current analysis methodologies. The risk analysis for Rattlesnake Dam also identified opportunities to improve the understanding of the potential for erosion and spillway failures. The recommended actions for Rattlesnake Dam include completing an Issue Evaluation Study (IES) for the following items.

- Perform a seismic response analysis of the embankment.
- Perform a study to understand the full history of seepage; including piezometers and drains and confirm the as constructed zoning and gradations.

To perform these recommended actions, a detailed site characterization is necessary. HDR developed a Geotechnical Investigation Work Plan (GIWP) outlining the required drilling, sampling, testing, instrumentation installation and monitoring/reporting to acquire the data for the site characterization which will serve as the basis for the IES. It is understood that the Engineer will utilize the data gathered by the geotechnical investigations to evaluate and update the risk analysis.

Geotechnical investigations in the dam embankment, foundation soils and bedrock, and in the upper spillway foundation are required to provide the necessary data to complete the Rattlesnake Dam IES. The site investigation program is designed to further characterize the geologic and geotechnical conditions at the site and address the potential dam safety issues and potential failure modes described below.

**Seismic Stability:** Additional information is required to evaluate the seismic stability of the downstream and upstream slopes/crest of Rattlesnake Dam.

**Seepage Safety:** Additional information is required to evaluate seepage conditions in the dam and foundation under a full range of reservoir operating conditions.

**Spillway Channel Stability:** Additional information is required along the upper portion of the existing spillway to better understand the erosion potential of the spillway and underlying bedrock materials under design flood loading conditions.

The additional data gathered as part of this site characterization program will be used during the IES evaluations to better understand the likelihood of the identified PFMs and reduce areas of uncertainty. The investigation program outlined in this GIWP is intended to utilize current best practices, procedures, and guidelines in order that the subsequent IES provides the maximum amount of high-quality information on which critical dam safety recommendations and decisions will be made.

## Scope of Work

AECOM's scope and approach to implementing the GIWP are described herein. We have also taken the liberty to summarize various options that we believe would provide added value and enhance the geotechnical investigation.

AECOM's approach begins with selection of highly qualified engineers and geologists with extensive exploration and design experience for new and existing dam projects of all sizes in southern California. Staff having geotechnical exploration, as well as dam design experience, are more likely to recognize situations where it may be desirable to refocus efforts or employ another exploration or testing technique. Experienced staff also know how to summarize and document the exploration and testing programs in a succinct yet comprehensive data report. This allows the Engineer to quickly find needed information. Although the PDF of the data report will be created as a bookmarked and searchable document, we will also provide the data in their native format (e.g., GIS, CADD, Excel), allowing the Engineer to incorporate the data into the workflow with minimal effort.

## Task 1 – Project Management

AECOM will conduct effective project management that adheres to the scope, schedule, and budget; provide efficient and frequent communication with IRWD and other project stakeholders; and implement AECOM's Quality Management System (QMS) to provide effective quality assurance/quality control. Project management encompasses:

### *A. Preparation of Project Status Reports*

AECOM will prepare weekly and monthly project status reports for IRWD's management team. The weekly status reports will consist of a brief (one to two paragraphs) email summarizing work activities completed the previous week, along with activities planned for the upcoming week. Monthly status reports will provide more detail and summarize work for the previous and upcoming month. The monthly reports will include an updated project schedule (Microsoft Project Gantt Chart), a summary of budget expenditures to date per task, and budget remaining. In addition to the status reports, AECOM's Project Manager will maintain strong lines of communication with IRWD via email and telephone.

## B. Meetings and Workshops

AECOM will organize and conduct meetings and workshops to keep the project team informed on work in progress, coordinate field activities, and present deliverables. We will prepare and submit meeting agendas for IRWD review and concurrence at least three days prior to the meeting. Draft and final minutes for all meetings and workshops will be prepared and submitted to IRWD within one week of each meeting. Exhibit 1.1 presents a summary of the meetings anticipated.

### Exhibit 1.1 - Anticipated Meetings

| Meetings/Workshops                     | Description                |
|--|----------------------------|
| Kick-off Meeting                       | One (1) two-hour meeting   |
| Monthly progress meetings              | Four (4) one-hour meetings |
| Site visit (miscellaneous)             | One (1) two-hour meeting   |
| Present Draft Geotechnical Data Report | One (1) two-hour meeting   |
| Present Final Geotechnical Data Report | One (1) two-hour meeting   |

## C. Quality Assurance/Quality Control

AECOM will implement its QMS throughout the project to ensure consistent quality control for all project phases. The QMS system is based on the ISO 9001 standard and is required on all AECOM projects. Each project deliverable will undergo detail checking and an independent technical review. The detail checking review focuses on a review of grammar, spelling, drafting, boring and test pit logs, consistency of laboratory data with field exploration, and consistency in nomenclature for features and geologic descriptions. The independent technical review will be performed by experts in the related field who have not been involved in preparation of the deliverable. In addition, our laboratory is certified with the American Association of State Highway and Transportation Officials Accredited Program (AAP/AMRL), the US Department of Agriculture (Soil Receive Permit), the US Army Corps of Engineers, and the City of Los Angeles.

## D. Project Schedule

AECOM will develop and maintain a Microsoft Project Schedule (Exhibit 4.1) that establishes the sequential logic of all tasks and milestones. Our Project Manager will monitor compliance with the schedule, update it monthly as necessary, and distribute it at monthly progress meetings. The schedule will include all primary work elements defined in the GIWP and scope of work, key milestones defined herein, deliverables, and IRWD review periods. If any issues arise that may cause delays, our Project Manager will develop proactive actions to recover and maintain the schedule.

# Task 2 – Geotechnical Data Collection and Investigations

The primary goal of the geotechnical investigation is to document and characterize the geologic and geotechnical conditions at the site for use by others in an IES for Rattlesnake Dam. The GIWP includes investigative borings, a test pit (optional) and seismic refraction lines at the embankment and spillway to evaluate subsurface conditions.

## A. Geotechnical Investigations

This section of our proposal presents our general plan for the expeditious implementation of the field investigation. The field investigation includes the following items:

- 10 Cone Penetration Tests (CPTs) through embankment and foundation soils with a total length of approximately 790 feet.

- 5 seismic refraction lines (4,600 lineal feet).
- 7 SPT (Standard Penetration Test) borings through soil and bedrock with a total length of approximately 770 feet.
- 2 sonic boreholes with a total length of approximately 185 feet.
- Obtaining rock cores with a total length of up to 200 feet in all 7 SPT borings.
- Performing packer testing in bedrock to estimate hydraulic conductivity.
- Perform televiwer surveys in the bedrock portion of each SPT boring.
- 1 exploratory test pit (optional as directed by IRWD).
- 3 spillway core borings for sampling concrete lining and foundation bedrock samples to a total depth of 10 feet below the top of the spillway slab or the surface of the spillway approach channel.

The proposed locations of the explorations are shown on Exhibit 1.2 and a detailed summary of the exploration program including type, location, depth, instrumentation, in-situ and lab testing is provided in Exhibit 1.3.

The field investigations will be performed in two phases. The initial phase of work (Phase 1 Explorations) will include the CPTs and the Seismic Refraction lines. The data and information gathered during the Phase 1 investigation will be presented in a Preliminary Data Report. Following their review and evaluation of the Preliminary Data Report, IRWD and the Engineer will collaborate with AECOM to update and refine the Phase 2 Investigations. The updated program will include details related to the following:

- Anticipated number and locations of SPT tests in each boring
- Anticipated number and location of undisturbed tube samples to be obtained in each boring
- Anticipated locations and details related to instrumentation to be installed in the borings
- Other program changes as directed by IRWD and the Engineer

## **Pre-Exploration Activities**

### **Health and Safety Plan**

Safety is first and foremost. AECOM will complete a Site-Specific Health and Safety Plan (HASP). The HASP will be submitted to IRWD a minimum of 2 weeks prior to the initiation of any field activity for review and comment. AECOM's subsurface exploration subcontractors shall also prepare a HASP for their specific operations, with copies of the Exploration HASPs provided to IRWD's Project Manager prior to the initiation of any field exploration activities. AECOM's Field Exploration Manager will act as the Site Safety and Health Officer for field staff during the exploration field work. Safety tailgate meetings will be conducted prior to the start of exploration operations at the beginning work each day. The daily tailgate meetings will contribute to a good safety culture for the project.

### **Exploration Permitting and Utility Clearance**

AECOM will obtain well/boring permits from Orange County Environmental Health department per the Orange County Well Ordinance (County Ordinance No. 26w07) for the SPT and sonic borings and the CPTs. No permitting will be necessary for the 10-foot-deep borings in the spillway.

AECOM will stake all the boring locations and the test pit location identified in the GIWP and notify Dig Alert (Underground Service Alert) to identify the potential for underground utilities. Dig alert will be notified a minimum of four working days prior to commencement of subsurface investigations.



## Explorations

AECOM has carefully selected a team of highly qualified subcontractors that will implement the field investigation.

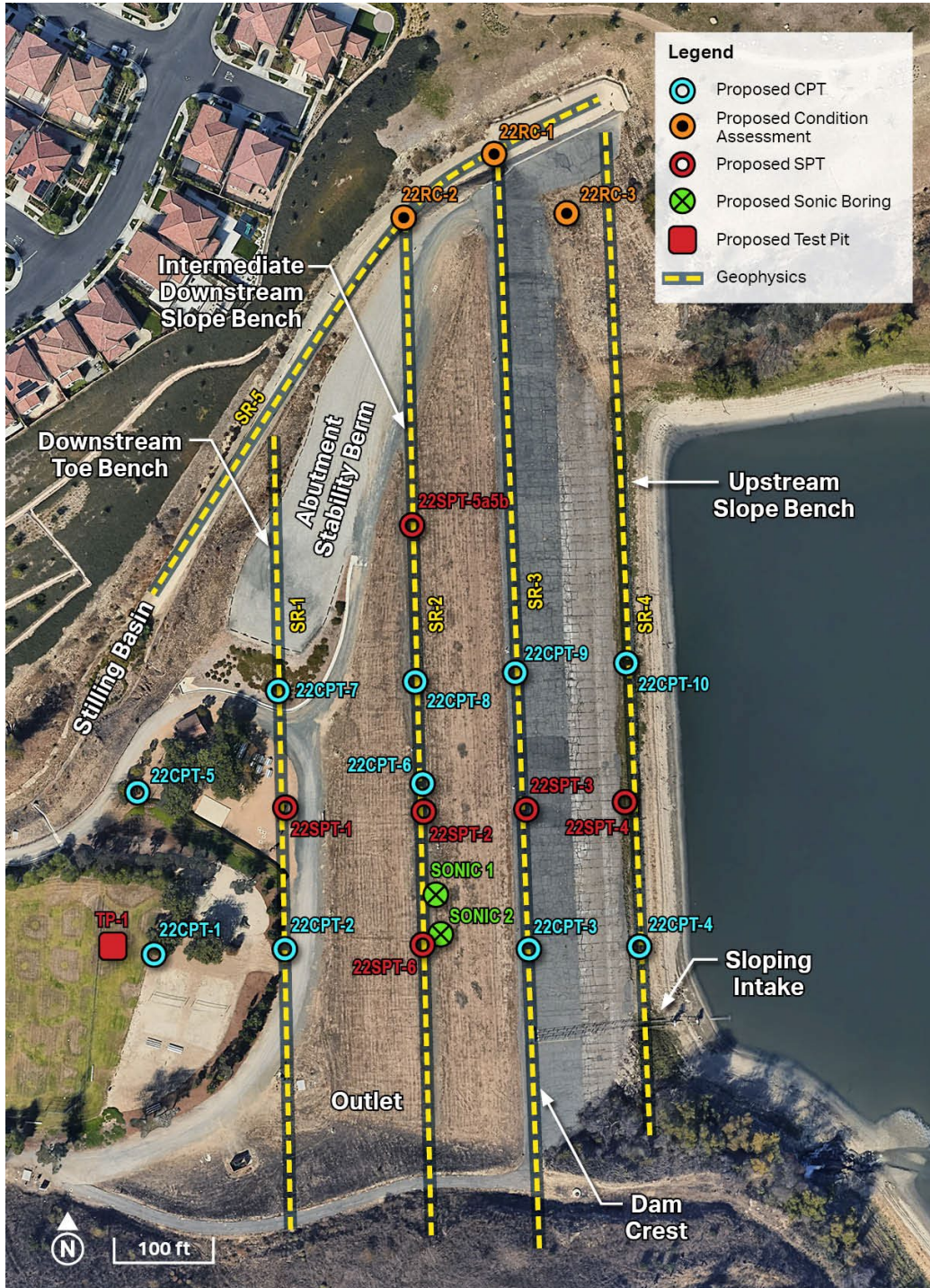


Exhibit 1.2 - Site Exploration Plan

**Exhibit 1.3 - Summary of Explorations**

| <b>ID</b> | <b>Type</b>           | <b>Depth or Length (feet)</b> | <b>Instrumentation</b>   | <b>In-situ Testing</b>                               | <b>Lab Testing</b>  |
|-----------|-----------------------|-------------------------------|--|--|---|
| 22CPT-1   | Cone Penetration Test | 60                            | Not Applicable   | Pore pressure dissipation tests at 10-foot intervals | Not Applicable  |
| 22CPT-2   | Cone Penetration Test | 60                            | Not Applicable   | Pore pressure dissipation tests at 10-foot intervals | Not Applicable  |
| 22CPT-3   | Cone Penetration Test | 100                           | Not Applicable   | Pore pressure dissipation tests at 10-foot intervals | Not Applicable  |
| 22CPT-4   | Cone Penetration Test | 90                            | Not Applicable   | Pore pressure dissipation tests at 10-foot intervals | Not Applicable  |
| 22CPT-5   | Cone Penetration Test | 65                            | Not Applicable   | Pore pressure dissipation tests at 10-foot intervals | Not Applicable  |
| 22CPT-6   | Cone Penetration Test | 100                           | Not Applicable   | Pore pressure dissipation tests at 10-foot intervals | Not Applicable  |
| 22CPT-7   | Cone Penetration Test | 20                            | Not Applicable   | Pore pressure dissipation tests at 10-foot intervals | Not Applicable  |
| 22CPT-8   | Cone Penetration Test | 85                            | Not Applicable   | Pore pressure dissipation tests at 10-foot intervals | Not Applicable  |
| 22CPT-9   | Cone Penetration Test | 120                           | Not Applicable   | Pore pressure dissipation tests at 10-foot intervals | Not Applicable  |
| 22CPT-10  | Cone Penetration Test | 90                            | Not Applicable   | Pore pressure dissipation tests at 10-foot intervals | Not Applicable  |
| 22SPT-1   | HSA/HQ Core Boring    | 80                            | None   | P-S Suspension, televiewer and packer testing        | As per the laboratory testing schedule presented in the GIWP, to be adjusted during the field investigation |
| 22SPT-2   | HSA/HQ Core Boring    | 110                           | None   | P-S Suspension, televiewer and packer testing        | As per the laboratory testing schedule presented in the GIWP, to be adjusted during the field investigation |
| 22SPT-3   | HSA/HQ Core Boring    | 150                           | Two Open Standpipes with Vibrating Wire Piezometers and Data Logger          | P-S Suspension, televiewer, and packer testing       | As per the laboratory testing schedule presented in the GIWP, to be adjusted during the field investigation |
| 22SPT-4   | HSA/HQ Core Boring    | 125                           | None   | P-S Suspension, televiewer, and packer testing       | As per the laboratory testing schedule presented in the GIWP, to be adjusted during the field investigation |
| 22SPT-5A  | HSA/HQ Core Boring    | 90                            | Two Open Standpipes equipped with Vibrating Wire Piezometers and Data Logger | P-S Suspension, televiewer, and packer testing       | As per the laboratory testing schedule presented in the GIWP, to be adjusted during the field investigation |
| 22SPT-5B  | HSA/HQ Core Boring    | 115                           | None   | P-S Suspension, televiewer, and packer testing       | As per the laboratory testing schedule presented in the GIWP, to be adjusted during the field investigation |
| 22SPT-6   | HSA/HQ Core Boring    | 100                           | None   | P-S Suspension, televiewer, and packer testing       | As per the laboratory testing schedule presented in the GIWP, to be adjusted during the field investigation |
| SONIC 1   | Sonic Boring          | 90                            | None   | None   | As per the laboratory testing schedule presented in the GIWP, to be adjusted during the field investigation |
| SONIC 2   | Sonic Boring          | 95                            | None   | None   | As per the laboratory testing schedule presented in the GIWP, to  |

| ID                   | Type                      | Depth or Length (feet) | Instrumentation | In-situ Testing                             | Lab Testing   |
|----------------------|---------------------------|------------------------|-----------------|---|---|
|                      |                           |                        |                 |   | be adjusted during the field investigation  |
| TP-1 (optional task) | Test Pit                  | 10-20                  | None            | Sand Cone density tests at 5-foot intervals | As per the laboratory testing schedule presented in the GIWP, to be adjusted during the field investigation |
| 22RC-1               | NQ Core Boring            | 10                     | None            | None  | As per the laboratory testing schedule presented in the GIWP, to be adjusted during the field investigation |
| 22RC-2               | NQ Core Boring            | 10                     | None            | None  | As per the laboratory testing schedule presented in the GIWP, to be adjusted during the field investigation |
| 22RC-3               | NQ Core Boring            | 10                     | None            | None  | As per the laboratory testing schedule presented in the GIWP, to be adjusted during the field investigation |
| SR-1                 | Seismic Refraction Survey | 800                    | Not Applicable  | Not Applicable                              | Not Applicable  |
| SR-2                 | Seismic Refraction Survey | 1000                   | Not Applicable  | Not Applicable                              | Not Applicable  |
| SR-3                 | Seismic Refraction Survey | 1100                   | Not Applicable  | Not Applicable                              | Not Applicable  |
| SR-4                 | Seismic Refraction Survey | 1000                   | Not Applicable  | Not Applicable                              | Not Applicable  |
| SR-5                 | Seismic Refraction Survey | 700                    | Not Applicable  | Not Applicable                              | Not Applicable  |

## Phase 1 Explorations

### Cone Penetration Tests

Kehoe Testing and Engineering (Kehoe) will serve as our subconsultant for performing the 10 Cone Penetration Tests (CPT). Kehoe recently teamed with AECOM for geotechnical investigations at the Syphon Reservoir Improvement Project (SRIP) and has performed numerous other investigations for AECOM. Kehoe operates two 30-ton (4-axle) CPT rigs. By adding a fourth tag axle they can legally operate their rigs at a full 30 tons, which gives them the ability to push deeper and through denser soils. The rigs and tooling were specifically designed with the challenging soils often encountered in California. The air-conditioned testing area of the CPT rig contains the push frame, data acquisition system, portable computer and color printer. A 500-gallon stainless steel water tank is mounted in front of the push frame to provide even more ballast when required. For seismic shear wave measurements an air actuated hammer is built into the front jack pad of the CPT rig. This setup provides excellent coupling with the ground because of the weight of the rig. The powerful seismic hammer provides clear shear wave measurements to depths over 150 feet. The shear wave hammer is controlled by the operator inside the CPT rig (unlike many manual shear wave hammer setups) for maximum efficiency.

For sites that require limited travel over loose soils, Kehoe has mats that allow access for the CPT rig. AECOM suspects this will be required for accessing 22-CPT-4 and 22-CPT-10 which are along the upstream bench of the Rattlesnake Dam. Depending on the water level at the timing of the Phase 1 investigations, this bench may be partially saturated and soft and therefore present some access difficulty. AECOM has worked with Kehoe in the past with similar soft ground conditions and are confident they can access these two sites with their 30-ton four axle rig.



## Seismic Refraction Lines

GEOVision Inc. (GEOVision) will serve as our subconsultant for performing the 5 seismic refraction lines. AECOM has worked with GEOVision on several of our recent dam projects, including the SRIP, Santa Anita Debris Dam Seismic Strengthening and Enlargement Project, Vail Dam Seismologic and Hydrologic Remediation Project, Tinemaha Dam and South Haiwee Dam Fault Study. GEOVision is a full-service geophysical service company that offers high-quality geophysical data acquisition, analysis, and imaging services. As the largest geophysical company in the local area (Corona), GEOVision has on staff five registered geophysicists to rapidly respond when called.

GEOVision will follow the procedure detailed in ASTM D 5777. The seismograph used during the investigation will consist of three to four Geometrics Geode 24-channel seismograph(s), or equivalent. The seismic energy source will consist of a truck or UTV-mounted accelerated weight drop (AWD), Betsy downhole percussion firing rod (DPFR), or sledgehammer and an aluminum plate. Receivers will consist of 4.5-, 8-, or 10-Hz vertical geophones aligned in a single and overlapping spreads of up to 96 geophones. Geophones will be spaced nominally 10 ft, for spread lengths of up to 950 feet. The actual number of geophones used, sources, geophone spacing, and line lengths will be determined in the field. Each line will be conducted with a minimum of 12 shot points occupied per spread: forward and reverse end shots, off end shots, and multiple interior shots. Additional care will be taken for SR-4, on the upstream bench, since this S-wave data will be combined with borehole data to obtain Vs30 measurements in the rock. MAS<sub>LW</sub> may be required, which will require additional measurements. Seismic data will be stored on thumb drive or hard disk, and back up to laptop computer. Relative elevations along each seismic line will be measured with an engineer's transit and rod. The endpoints of the seismic lines will be surveyed with a submeter GPS unit. Seismic refraction data will be processed using seismic tomography techniques and/or the generalized reciprocal method (GRM).

The report for the seismic investigation will include a discussion of field procedures, geophysical techniques, data processing and interpretation, and the results of the geophysical survey. The report will also include a site map showing the location of the geophysical traverses, interpreted seismic sections. Original field data files will be provided electronically. The report will be reviewed and approved by a California Professional Geophysicist.

GEOVision has expressed some concerns regarding Seismic Line SR-5. They noted that the physics of the refraction require straight lines. So, if the lines on the spillway are required, it would necessitate at least two shorter and separate lines be done. The depth of investigation of these shorter lines would not be as deep. Furthermore, seismic refraction on concrete is not feasible due to signal loss (radiates everywhere). They recommend moving SR-5 to an alternative location adjacent to the southeast side of the spillway chute.

## Phase 2 Explorations

The comprehensive drilling investigation described in the GIWP is the principal component of the field exploration. Successful, on time completion of the drilling will require careful planning and execution. As noted above the finding of the Phase 1 Explorations will be summarized in a draft data report, reviewed by IRWD and the Engineer, and then the planned details of the drilling program will be refined and implemented. The drilling investigation includes hollow stem auger (HSA)/HQ core borings and sonic borings at the dam, and shallow NQ core borings in the spillway chute and spillway approach channel. The following presents our approach to completing the Phase 2 explorations.

### Hollow Stem Auger and Core Borings

Seven (7) borings with hollow stem auger through the dam embankment and HQ core drilling in the bedrock will be performed at the locations shown on Exhibit 1.2. In addition, 2 nested standpipe piezometers will be installed in two of the borings. P-S Suspension logging and acoustic or optical televiewer surveys will be performed in all seven of the borings. We estimate that approximately 30



packer permeability tests will be completed in the bedrock portions of these borings. AECOM will have a professional geologist (PG) certified in the State of California, log each boring. AECOM and its drilling subcontractors will adhere to the detailed description of the drilling and in-situ testing methodologies described in the GIWP. In particular we emphasize the importance of implementing extreme care in drilling and sampling through the dam embankment the underlying alluvium. Special precautions, as detailed in the GIWP will be implemented to prevent heave of the embankment fill into the auger, and to prevent hydrofracturing of the embankment fill.

Soil sampling will be performed in accordance with the GIWP and applicable ASTM standards. Rock coring will be collected using diamond core techniques, logged, and photographed in the core sleeve, and placed in core boxes. Soil samples and core boxes will be first taken to our geotechnical laboratory in Anaheim for cataloging and review. An engineering geologist will review the rock core with the field logs and will photograph the core boxes for the data report. A geotechnical engineer will review boring logs and soil samples and assign lab testing. We have a sample inventory and test tracking sheet for all samples, which is maintained on our server. We will send the proposed laboratory testing plan and field boring logs to the Engineer for review prior to testing. Upon completion of the tests, all samples remaining will be taken to the site and stored in container. AECOM will maintain a log of the samples collected at the site so they can be readily retrieved and inspected or tested further.

Tri-County Drilling will serve as our drilling subcontractor for the 7 Hollow Stem Auger (HSA) /Core borings (Borings 22SPT-1 through 22 SPT-6) that will be drilled through the embankment of the dam and into the underlying alluvium or bedrock. Tri-County Drilling, who recently completed four HSA/Core borings for AECOM at Syphon Reservoir, has worked with AECOM on several dam projects in southern California including the planned Ortega Reservoir, North Haiwee Dam, Green Acres Dam, Prado Dam Spillway, and Lee Lake Dam. The company has performed numerous dam investigations for AECOM, and has proven invaluable in high-quality core recovery, packer testing, and well installation. We are confident that Tri-County Drilling will continue its successful track record at Rattlesnake Reservoir.



**Tri-County Drilling and AECOM have worked together on many dam projects in Southern California – Syphon Reservoir**

All borings that are not completed with an open standpipe piezometer, or the lower portion of borings below the bottom of partial depth piezometers, will be backfilled with a neat cement grout in accordance with Orange County Environmental Health well permit requirements. Borings will be backfilled within 24 hours of completion. All investigation derived waste (IDW) including drill cuttings and well development water will be drummed, tested (analytical), and disposed of at an appropriate landfill facility. For cost estimating we have assumed that the IDW will be classified as non-hazardous.

### **Spillway Core Borings**

Three core borings, two (22RC-1 and 22RC-2) extending 10 feet below the surface of the spillway chute and one (22RC-3) extending 10 feet below the surface of the spillway approach channel will be done to characterize the condition of the upper spillway chute section concrete lining and the erodibility of bedrock below concrete or approach channel armoring. The core borings will be performed by Tri-County Drilling. For accessing borings 22RC-1 and 22RC-2, Tri-County Drilling will lower and lift a limited access rig into

and out of the channel with a truck mounted crane. GEOVision will perform Ground Penetrating Radar surveys at the two proposed coring locations on the spillway concrete slab (Borings 22RC-1 and 22 RC-2), to locate and mark the rebar within the slab so it can be avoided when coring. These borings will be tremie grouted (with a cement/bentonite mixture) to the bottom of the concrete slab and allowed to set-up overnight. The slab section of the boreholes will be backfilled with a non-shrinking/high strength grout (e.g. Sika Grout 328). Prior to the placement of the Sika Grout, the borehole walls will be roughened and notched with a grinder. After the roughening and notching, the grout will be poured by hand to the top of the slab.

If steel reinforcement within the spillway slab is accidentally nicked or severed during coring, AECOM will provide a proposed repair detail for review and approval by DSOD. For example, recent repair work for the Prado Dam Spillway Modifications Project required cutting spillway slab rebars and those repairs included coating the cut rebar with an integral corrosion inhibitor, adding overlapping rebar dowels drilled and epoxied in place, and coating the roughened sides of the concrete hole with a bonding agent prior to placing a 5,000-psi concrete patch. Any spillway slab repairs required at Rattlesnake Dam would be consistent with recommendations included in the U.S. Bureau of Reclamation "Guide to Concrete Repair", Second Edition (August 2015).

In addition to logging the shallow core borings, AECOM will use a downhole camera to video the contact between the bottom of the slab and the top of the bedrock to inspect the condition of the slab/bedrock contact (e.g., inspect for the possibility of voids between the concrete and the bedrock).

The drill cuttings will be drummed, tested (analytical), and disposed of at an appropriate landfill facility. For cost estimating we have assumed that the cuttings will be classified as non-hazardous.

### **Packer Testing (Lugeon Testing)**

The GIWP indicates that Packer (Lugeon) testing shall be performed in the bedrock portions of the seven SPT borings. The packer tests will be performed with single packer testing using down-stage technique and shall follow procedures and evaluation methodology described by Houlsby (1976) and that testing intervals shall be selected in the field based on the observed conditions of the rock core. For cost estimating we have assumed that approximately 30 packer tests will be done in the SPT borings.

AECOM recently completed 146 packer tests at the SRIP, many of which were in the same bedrock formation that is at Rattlesnake Dam (the undifferentiated Vaqueros and Sespe Formations). Based on that experience we know what quality of rock is needed to get a tight seal of the packer to perform a successful test. We will utilize that experience in deciding where to place the packer to proceed with the test. If the rock is pervasively fractured and weathered with a poor Rock Quality Designation (RQD) we know that it is unlikely that a tight seal can be achieved, and a successful test accomplished. The down-stage technique of packer testing can be a significant delay for advancing the boring, so it's important that an attempted test will be a successful test.

Packer testing is a skill set that relatively few drilling companies are proficient at. Tri-County Drilling has performed packer testing with AECOM on several dam projects, including the proposed Ortega Reservoir, the proposed Green Acres Dam, and the Prado Dam Spillway Modifications Project. We know they have the equipment and expertise to perform packer testing and we trust they can accomplish this relatively complex in-situ test.

### **Downhole Geophysics**

Acoustic and optical televiewer surveys will be performed in the bedrock portions of the SPT borings that are below the HSA casing depth, which will likely be set a few feet into the uppermost bedrock. Six of the seven borings are planned to penetrate 25 feet into bedrock and one of the seven borings is planned to go 50 feet into bedrock.

AECOM will have GEOVision perform the P-S suspension and the televiwer surveys. GEOVision recently performed five (5) P-S Suspension Surveys and 24 televiwer surveys at the SRIP. They have also performed these services for AECOM on several other dam projects including Tinemaha Dam, South Haiwee Dam, Sawpit Debris Dam. GEOVision has on staff five registered geophysicists to rapidly respond when called. This will be particularly important when doing the downhole geophysics, as the completion of the borings will be reliant on the expeditious mobilization of the geophysicist to complete the geophysical survey.



## VALUE ADDED

With a deep bench of local registered geophysicists, GEOVision has the capacity to quickly mobilize field resources when needed for downhole surveys.

GEOVision has brought to our attention that a 15-foot rat-hole (extra depth of the hole beyond the zone of interest) would be needed to acquire P-S suspension data to the planned depth of the holes (~25 feet and 50 feet below the top of rock). For your consideration, we are providing, as an optional task, a footage rate for extending each boring and extra 15 feet to facilitate the P-S suspension logging.

### Well Installation and Development (Piezometers)

Borings 22SPT-3 and 22SPT-5a will be completed with standpipe piezometers equipped with vibrating wire piezometers (VWP) and data loggers. The standpipes will be 1.5-inch diameter PVC casings with a 0.020-inch machined slotted interval. The screened intervals of the piezometers will be backfilled with No. 3 sand filter pack. The screened intervals of piezometers for the filter pack will be 5, 10, or 20 feet long. The intervals will be determined by the Field Exploration Manager and based on the specific findings of the boring. Bentonite seals will be installed around the screened intervals. Upon completion, the piezometers will be properly developed by surging with a bailer and removing a specified volume of water as directed by the field personnel and in accordance with the procedures in the USBR (1995) Ground Water Manual.

Nested piezometers (multiple standpipe piezometers installed in the same borehole) designed to measure more than one zone of influence, might be installed. The installation of the nested piezometers will include a minimum 10-foot grout or bentonite seal between the screened zones. Specific intervals to be targeted for groundwater measurements will be determined during drilling by the Field Exploration Manager to correspond with soil/rock conditions encountered. The Field Exploration Manager will provide installation details to the AECOM PM, the IRWD and the Engineer for a quick check, prior to the installation.

For cost estimating, we have assumed that two standpipe piezometers will be installed in 22SPT-3 and two piezometers will be installed in 22SPT-5a. We have assumed that one standpipe will extend into bedrock, near the total depth of the boring, and the other piezometer will be installed to a depth near the base of the alluvium. However, we foresee a problem with installing a 1.5-inch PVC standpipe well in a HQ core hole which has a diameter of ~3.8 inches. A 1.5-inch casing has an outside diameter of 1.9 inches. In accordance with the Water Well Standard for the State of California, the annular seal would be required to be a minimum of 2 inches in radial thickness (in other words the borehole diameter needs to be at least 4 inches larger than the outside diameter of the well casing). Thus a 6-inch hole would be needed to install the standpipe. The core boring could not be reamed to that size with the 8-inch HSA serving as the casing within the embankment and the alluvium. We believe the solution to this problem would be to forego using a standpipe and instead install a VW piezometer in the bottom of the HQ borehole using the fully grouted method. The VW piezometer would be installed to the desired depth with a PVC placement pipe and both the inside and outside of the PVC placement pipe would be tremie backfilled to the top of the HQ hole. The placement pipe would not be an open well, therefore the 2-inch minimum annular space would not be required. Prior to installation AECOM will discuss options for the wells that would meet the requirements of the DSOD, the State of California Well standards, and the Engineer.



Each of the piezometers will be finished with a flush mounted surface casing suitable for protecting the instrumentation and housing of the data loggers (a traffic-rated Christy box). Each surface casing shall be appropriately marked with the boring and instrumentation numbers for future reference and proper recording of instrumentation data. Groundwater level measurement shall be downloaded from the data loggers up to immediately prior to submittal of the Final GDR and the project schedule end date (November 30, 2023).

### Slug Tests

Slug testing will be performed in 22SPT-3 and 22SPT-5a after the standpipe piezometers have been adequately developed. Slug tests (also known as falling/rising head tests) will be performed by rapidly inserting a solid mandrel (slug) to displace an excess head of water in the well, followed by monitoring of this excess head dissipation (a falling head test). Once the water level in the well reaches the approximate pre-test static water level, the mandrel is extracted, resulting in a water level drop that is monitored until it returns to a near static water level (a rising head test). The slug tests shall be performed based on the guidance presented in the USBR Ground Water Manual (1995) and in the United States Geological Survey GWPD 17 technical procedures (USGS, 2010). The water levels will be monitored during slug testing by a pressure transducer and automated data logger. From the recorded data, an estimate of hydraulic conductivity will be calculated using one of the methods recommended in the Ground Water Manual (USBR, 1995) based on the aquifer conditions and the position of the screened portion of the piezometer with respect to the groundwater or confining layers. The slug test (falling/rising head tests) will be repeated multiple times in the piezometers to evaluate the variability and repeatability of the test; a minimum of four tests will be performed within each piezometer slug testing is required.

### Sonic Borings

Two (2) sonic drilling holes will be advanced on the intermediate downstream slope bench. Sonic drilling provides continuous soil sampling and will be used to collect soil samples and assess the condition of the chimney drain. The challenge of the sonic holes will be to successfully intersect the vertical portion of the chimney drain which is about greater than 40 feet below the upslope side of the bench and only about 7 feet wide. BC2 Environmental LLC (BC2) will be our subconsultant for these Sonic Borings. BC2 is an Orange County-based, full service environmental and geotechnical drilling company that has an extensive fleet of drill rigs suitable for varying geologic and access conditions. BC2 has a rubber-track-mounted sonic rig (Terra Sonic 150 CC) that AECOM has recently utilized on another project. We believe this rig is ideally suited for the narrow bench that the sonic borings will be advanced from. The bench is approximately 15 feet wide and the optimum drill hole location to intersect the chimney drain is at the upslope side of the bench. The TSI 150 CC, has a width of approximately 7 feet and length of approximately 19 feet and it can drill at an angle. These dimensions and capabilities will allow it to maneuver for the optimal set up to intersect the chimney drain (very close to the upslope side of the bench). It also has the ability to drill at an angle so if it is determined that a slight tilt (a few degrees from vertical) of the drill mast will be necessary to intersect the chimney, that can be accomplished. As requested in



**Downstream slope of Rattlesnake Dam showing the intermediate bench where the two sonic borings will be drilled from.**

Addendum No. 1 of the RFP, we are providing as an optional task the cost for advancing two additional sonic borings, that could be done should one or both initial borings not intersect the chimney.

We are expecting that the DSOD will require some special requirements for backfilling the sonic borings. We anticipate that the requirements will generally include grouting the zone beneath the chimney, placing about two feet of bentonite plug in the upper two feet of that zone, placing filter material in the area of the chimney, placing about six feet of bentonite plug above the chimney zone, and grouting the remaining length to the surface.

### **Test Pit (Optional)**

The GIWP describes the excavation of an up to 20-foot-deep test pit located downstream of the downstream toe of the dam, east of the sand volleyball court as a possible means of providing direct testing and sampling of the foundation materials for the liquefaction evaluation. The purpose of the test pit would be to allow the visual logging of near surface soils and bedrock, the collection of large, disturbed bulk samples for laboratory testing, and in-situ density testing with sand cones. The in-situ density testing along with the bulk samples would be used to estimate the minimum and maximum density of the foundation soils and the density state (percent of maximum index density) indicated by the sand cone tests would add significant data for correlation of borehole SPT and CPT measurements. The sand cone density testing will be performed at 5-foot intervals as the test pit is progressively deepened. AECOM has assumed that up to 4 depth intervals would be tested (at 5-foot, 10-foot, 15-foot and 20 foot) if the test pit is advanced to a 20-foot depth.

The test pit is an optional task. AECOM, the IRWD and the Engineer will consider the information gathered from CPT-1, CPT-2, CPT-5 and CPT-7 to assess the potential for the test pit excavation to be successfully completed. We note that the GIWP requested that the subcontractor develop an approach for how to control wet, saturated, soft, yielding, sensitive, unstable conditions in the test pit. AECOM believes that such conditions will prevail once the groundwater table in the alluvium is encountered. For safety reasons AECOM believes that the test pit should not be entered for in-situ testing once it has advanced below the groundwater table. From our experience any attempt to dewater (lower the groundwater table) in the vicinity of the test pit would be prohibitively expensive. Should IRWD continue to desire advancing the test pit below the groundwater table, AECOM can discuss what it might take to successfully dewater the test pit area. However, at this time, we do not understand the conditions at the test pit site to develop a credible dewatering plan and cost estimate for this proposal. In lieu of advancing the test pit below the groundwater table, we are proposing, for your consideration, drilling an optional mud rotary soil boring adjacent to the test pit to a depth of 20 to 25 feet. Shelby tube samples would be collected from the boring and density testing can be performed on the Shelby tube samples.

Innovative Service Group Inc. (ISG) will be our excavation contractor for the test pit. ISG teamed with AECOM on the SRIP, performing 20 test pits, three fault trenches, excavation of two undisturbed block samples, and trail blazing (road establishment) to provide access for drill rigs. As part of that task, ISG did an outstanding job of excavating safe benched and shored fault trenches that allowed inspection of the fault by AECOM, IRWD and the DSOD. ISG has also teamed with AECOM on several other dam projects, including Vail Dam, Tinemaha Dam and the planned Ortega Reservoir.

### **Sample Logging, Collection, and Storage**

Drive samples will be obtained using a Standard Penetration (SPT) sampler without liners, or a Modified California (MC) sampler with liners. The driller will provide an acceptable recent hammer energy calibration report to the Engineer for approval or shall calibrate the automatic hammer used for SPT borings prior to the execution of the SPT borings. Push samples shall be obtained using a Shelby Tube (3.0-inch diameter) sampler, or similar. Unless otherwise directed or indicated by the early CPT investigations, SPT sampling is to occur every five feet and Shelby Tube, or Modified California (MC) samples will be taken in between SPTs. The type of sampler used at each sampling depth interval shall

be carefully monitored in the field by the logging geologist and the field exploration manager based on the final sampling plan, or to match the material that is being encountered or expected.

Bedrock will be drilled and sampled with HQ-size (wire-line) rock coring methods. The coring shall be continuous with runs up to 5 feet in length using HQ-3 wire-line triple barrel system. Core runs will be photographed and logged in the core barrel inner sleeve before being transferred to a wooden core box. The core will be placed in the core boxes that will be labeled according to depth with wooden blocks. No recovery zones will be shown 2 to 3-inch diameter closed cell foam spacers. The labeled core boxes will be photographed with a folding ruler shown for scale. Core box photographs will be provided in an appendix of the GDR.

The soil and rock samples will be logged by a registered state of California Professional Geologist (PG) at the drill site as the drilling progresses. The logging will be done in general accordance with ASTM D5434 (Standard Guide for Field Logging of Subsurface Explorations of Soil and Rock), ASTM D2488 (Standard Practice for Description and Identification of Soils (Visual-Manual Procedures) and USBR Engineering Geology Field Manual (2001).

The GIWP requests that exploration samples be collected and stored in appropriate containers, bags, jars and core boxes and stored within a secured container to be placed at the site during the exploration program. Alternatively, if agreed to by IRWD, we propose that the soil samples and core boxes be taken to the AECOM geotechnical laboratory in Anaheim for temporary storage. In our laboratory each soil sample and core box can be photographed under fluorescent lighting to produce consistent sample photographs for inclusion in the Geotechnical Data Report (GDR). The soil samples and core boxes will be available at the laboratory for inspection by the Field Exploration Manager during his review of the field boring logs and by the geotechnical engineering team during assignment of laboratory tests. The samples will be stored at the laboratory until they are reviewed for selection of laboratory testing, and all logging and photographs are completed. Soil and rock samples will be returned to the project site and properly sealed and stored in a District provided 20-foot long conex storage box.

#### **Deliverables:**

- a. *Health and Safety Plan*
- b. *Permit Applications*
- c. *Field Boring, CPT and Test Pit logs for inclusion in the Geotechnical Data Report (GDR)*
- d. *Geophysical investigation report as an attachment to the GDR*

### ***B. Laboratory Testing Program***

Following the completion of boring and test pit exploration activities, recovered soil and rock samples will be reviewed for laboratory testing. Geotechnical laboratory testing shall be performed on selected soil and rock core samples from the borings and bulk samples from the test pit excavations to aid in classification and development of engineering parameters. Material classification tests are likely to include grain size tests, Atterberg Limits tests, moisture content, specific gravity and dry density, and compaction tests. Strength tests are anticipated to include shear strength tests of reconstituted and intact soil samples and compression tests of intact recovered rock core specimens. All laboratory testing shall be performed according to ASTM standards. For cost estimating purposes a Laboratory Testing Schedule was provided in the GIWP, Appendix C. AECOM will collaborate with IRWD and HDR engineers to revise the testing schedule as needed based on the finding of the field investigation.

For this project, we propose to perform the laboratory testing described in the GIWP in our geotechnical laboratory in Anaheim, located about 20 minutes from Rattlesnake Reservoir. Since its creation, AECOM's laboratory (legacy Woodward- Clyde Consultants) has provided high-quality soils and soft rock testing services for various projects that include dams, levees, highways, bridges, industrial facilities, and

commercial buildings. The Anaheim laboratory provides testing services throughout California and across the US to internal and external clients. Our in-house laboratory is a convenient location to open samples and review logs while selecting samples for test assignments. As a full-service geotechnical laboratory, it is capable of providing all geotechnical testing needs for index properties, classification, and engineering properties. Index property testing includes unit weights, Atterberg Limits, and particle-size analysis among others. Our engineering testing capabilities include direct shear, torsional ring shear, triaxial testing (ICU, CD, UU), hydraulic conductivity, unconfined compression, and consolidation. Our laboratory is an AMRL/AASHTO-accredited, USACE- validated, and City of Los Angeles-licensed laboratory.

### **Deliverables**

- e. *Proposed Laboratory Testing Plan*
- f. *Laboratory test data and results for inclusion in the GDR*

### **C. Geotechnical Data Report**

Upon completion of the field investigation and the laboratory testing program, AECOM will submit Draft Exploration Program- Geotechnical Data report for review and comment. The GDR will be a comprehensive, well-organized compilation of all the geotechnical data acquired during the upcoming Geotechnical Investigation, with a succinct but comprehensive summary of the equipment and methodology used. We intend to provide all the information possible that could be useful to the Engineer. We will provide critical information, such as the energy efficiency ratio of the hammer used to drive the soil samplers, which is needed to correct the field-measured blow counts used to estimate soil strength, and for other purposes. AECOM will finalize the data report based on comments and comment resolution agreed to between the IRWD, the Engineer, and AECOM.

AECOM's experienced staff will know how to summarize and document the exploration and testing programs in a succinct yet comprehensive data report. This will allow the Engineer to quickly find needed information. Although the PDF of the report will be created as a bookmarked and searchable document, we will also provide the data in their native format (e.g., ASCII [text], GIS, CADD, Excel), allowing the Engineer to incorporate the data into their workflow with minimal effort.

AECOM will implement our Quality Management System (QMS) throughout the project to provide consistent quality control for all project phases. The QMS is certified to the ISO 9001:2015 standard and is required on all of our projects. Each project calculation will undergo a detail checking review. Each project report and technical memorandum will undergo an independent technical review and a detail checking review. The independent technical reviews will be performed by experts in the subject matter who have not been involved in preparation of the deliverable. The detail checking review will focus on consistency of content, clarity, grammar, spelling, and notes. The detail checker will verify that the bookmarked, searchable PDF file has been properly assembled. AECOM will provide IRWD with review comment disposition forms, redlines, redline back-checks, and QMS forms upon request.

#### **Quality Geotechnical Data Report**

Quality geotechnical data will result in efficient analyses. Since we are geotechnical engineers, we understand and recognize the importance of quality data.

- ✓ The GDR is critical for quality data
- ✓ The GDR will be thoroughly reviewed by experts in the field
- ✓ AECOM has delivered quality GDR's for many dams, including:
  - Syphon Reservoir Improvement Project
  - Santiago Creek Dam Outlet Tower and Spillway Improvement Project
  - Trampas Canyon Dam – Recycled Water Reservoir
  - Santa Anita Debris Dam Seismic Strengthening and Enlargement Project
  - North Haiwee Dam Seismic Improvement Project
  - Sawpit Debris Dam Seismic Strengthening
  - Vail Dam Seismic and Hydrologic Remediation Project

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# 1. Supplemental Proposal Responses

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## Modifications Based on DSOD’s Comments on the GIWP

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|---|
| <p>1. <b>An additional CPT shall be included adjacent to 22-SPT-4. This additional CPT will be designated 22CPT-10 and will be extended to a depth of up to 100 feet. Pore pressure dissipation tests and seismic soundings shall be performed at 10-foot intervals.</b></p>  |
| <p>Acknowledged. The additional CPT has been added to the scope of work and an adjustment to the budget proposal was made.</p>  |
| <p>2. <b>CPTs, sonic borings, and surface geophysical testing shall be completed, and information from these explorations shall be provided to IRWD for evaluation before completion of the SPT borings. Requirements for SPT borings (anticipated sampling types and locations as well as instrumentation installation intervals) will be provided to the Geotechnical Firm based on the initial CPT, sonic and surface geophysical investigation results.</b></p>   |
| <p>Acknowledged. This was initially understood to be the sequencing of the investigation process. This DSOD comment elicits no change to our proposal scope or budget.</p>  |
| <p>3. <b>Sonic boring samples shall be photographed in the field, and samples selected for laboratory testing before bagging.</b></p>   |
| <p>Acknowledged. Sonic samples are immediately bagged in 0.6 Mil plastic sleeving when they are extruded from the sample barrel. The sleeving will be cut open with a knife and samples will be photographed. A tape measure for scale and appropriate markings that show depth below ground surface of the sample will be included in the photo. The geologist will also log the soil sample at this time. Immediately following the logging, the sample sleeves will be closed with duct tape. The samples will be stacked on pallets and securely covered with a tarp for temporary storage. After the project team has reviewed the boring logs and photographs, samples will be selected for testing. This DSOD comment elicits no change to our proposed scope or budget.</p> |
| <p>4. <b>All SPT sampling blow counts shall be recorded per inch, and sample descriptions shall include field estimates of the percent gravel.</b></p>  |
| <p>Acknowledged. AECOM geologists have recent experience recording blow counts on a per inch basis. When blow counts are recorded on a per inch basis, we consider it a standard practice to record a video of the drive sample blows. The videos will be reviewed in slow motion to help get an accurate count of the blows per inch. This DSOD comment elicits no change to the budget.</p>   |
| <p>5. <b>SPT samples shall be driven every 2 ½ feet (rather than alternating with the Modified California sampler). Driller shall have Modified California sampler, and additional Shelby Tube and Pitcher Barrel sample tubes available for use if needed.</b></p>   |
| <p>Acknowledged. This comment elicits no change to the budget.</p>  |
| <p>6. <b>The boring backfill neat cement-bentonite grout mixture shall be specified in writing three weeks before the start of drilling. Grout backfill shall use the tremie method, and procedures shall be implemented to prevent drill hole collapse.</b></p>  |
| <p>Acknowledged. This comment elicits no change to the scope or budget.</p>   |
| <p>7. <b>The sonic borings shall be backfilled with cement-bentonite grout everywhere except within the filter/drain portion of the exploratory hole. The filter/drain zone shall be</b></p>  |



**backfilled with the continuous sample obtained from the existing filter/drain zone and supplemented with imported filter/drain material. The gradation requirements of the imported filter/drain material shall be an approved ASTM C-33 fine aggregate unless otherwise specified by IRWD. The final supplemental filter/drain material gradation requirements will be provided by IRWD three weeks before the start of the sonic drilling.**

Acknowledged. This method is similar to what we described in our proposal. This comment elicits no change to our scope or budget.

8. **The selected Geotechnical Firm shall prepare and submit to IRWD an installation plan for the open standpipe piezometers three weeks before the start of drilling. The plan shall provide details on layout, materials used and installation methods. A conceptual sketch is provided below for estimating costs for piezometers (from IRWD’s Syphon Dam project; see the layout shown for Boring B-9). IRWD will provide the required instrument screen interval depths.**

Acknowledged. The layout shown in Boring B-9 is what we described in our proposal. As mentioned in our proposal we believe it would be necessary to forego using a standpipe in the bedrock portion of the boring due to space restrictions and the necessity to have 2” annular space in accordance with state well standards. The planned installation includes a standpipe piezometer (equipped with a vibrating wire piezometer) in the alluvial portion of the boring, and a grouted in place, vibrating wire piezometer in the bedrock portion of the boring, similar to our installation of B-9 at Syphon Reservoir. This comment elicits no change to our budget.

9. **The decision to excavate a test pit, as well as the technical requirement for the test pit at the downstream toe of the dam will be based on the results of all CPT, SPT and surface geophysical testing results. A test pit plan shall be prepared and submitted to IRWD for TP-1 four weeks before start of the test pit excavation. The plan shall include test pit layout (dimensions including depth, slopes, benching, shoring, etc.), control of groundwater and backfilling methods. Note that compaction requirements including equipment, moisture conditioning and number of passes/rolls shall be included. Compaction with the excavator bucket is not permitted.**

Acknowledged. We will comply with this request to submit a test pit excavation plan four weeks before the start of excavation and the requirement to not use the excavator bucket for compaction. The assumed compaction methodology in our proposal assumed that compaction could be performed in part by tamping with the excavator bucket. Additional costs will be incurred for utilization of a compaction wheel attachment for the excavator. The addition of the attachment has been added to the budget proposal for the optional test pit. A preliminary and conceptual estimate of the methodology that will be utilized to complete the test pit is provided below in our response to statement 16.

## Modifications Based on Bidder’s Comments and Requests for Clarifications

10. **SPT boring 22SPT-2 shall be extended 100 feet into bedrock. Downhole geophysics shall be completed to obtain a shear wave (Vs30) profile within the bedrock. Cost for this deeper rock coring at 22SPT-2 shall be shown separately in the proposal cost estimate**

Acknowledged. Extending 22SPT-2 100 feet into bedrock means that the boring will be 185 feet deep. This would be 75 feet deeper than previously assumed in our initial proposal. Additional cost

for the extra 75 feet will include additional drillers costs (extra footage, drilling time, packer tests, core boxes, etc.) and additional time for AECOM labor. There will be no additional cost for the downhole geophysical survey (Vs30). The cost for extending this deeper rock drilling is shown separately as an optional task in our budget proposal which is submitted as a separate pdf file. Note that this extra footage, which would be done by Tri-County Drilling, is being proposed as Optional Task 5 in our budget proposal.

**11. SPT angle boring 22SPT-5b shall extend 50 feet into bedrock. All other SPT borings shall be extended 20 feet into bedrock (except 22SPT-2 as noted above).**

Acknowledged. Extending boring 22SPT-5b fifty (50) feet into bedrock is consistent with what was assumed in our proposal. Extending all other SPT borings (except 22SPT-5b and 22SPT-2) 20 feet into bedrock is 5 feet less than what was previously suggested in Addendum 1 (25 feet into bedrock). However, the GIWP suggested that five of the borings will be advanced 15 to 25 feet into bedrock. Therefore, it is not clear to AECOM that the intent of this comment was to suggest a reduction in footage of 25 feet (5 feet less for 5 borings). Therefore, currently the comment elicits no change in our previously assumed scope of work and budget. If the intent was to reduce footage, there can be a reduction of drilling costs proportionate to the footage reduction.

**12. Piezometers shall be constructed in 22SPT-3 and 22SPT-5 as shown in the GIWP.**

Acknowledged. Piezometers will be installed as detailed in Appendix A, section A.11 of the GIWP. As described above in question 8, it is anticipated that the nested piezometer installation will include a standpipe piezometer in the alluvial portion of the boring, and a grouted in place vibrating wire piezometer in the bedrock portion of the boring. This comment elicits no change to the scope or budget.

**13. All CPT soundings will complete both pore pressure dissipation tests and seismic soundings at 10-foot intervals.**

Acknowledged. The initial proposal assumed that pore water dissipation tests would be done at 10-foot intervals but that no seismic tests would be done. This change of scope elicits a cost increase. The revised cost for the CPT sounding with both pore water dissipation and seismic soundings is shown in our budget proposal, which is submitted as a separate pdf file.

**14. Seismic refraction line SR-5 may be shifted south (toward the embankment dam) to move the line off the spillway concrete slabs. The selected Geotechnical Firm and IRWD will collaborate to identify the best location and alignment of the line.**

Acknowledged. This comment elicits no change to the scope or budget.

**15. IRWD recognizes that there are some technical challenges associated with performing and interpreting the surface geophysical work requirements of the GIWP. The primary purpose of the testing is to provide an estimate of the bedrock surface beneath the dam and the corresponding depths/limits of the foundation alluvium beneath the dam. The estimates of the bedrock surface shall be calibrated against the result of all CPT, Sonic, and SPT borings as well as the level of bedrock encountered in previous borings drilled at the site. Both compression and shear wave velocities shall be considered in the evaluation of the surface geophysical surveys. An initial and final interpretation of the testing results may be necessary and the Geophysical survey subconsultants should use the approach deemed necessary to obtain a reasonable final interpretation of the bedrock surface.**

Acknowledged. This comment is requesting that our Geophysical consultant (GEOVision) submit two reports for the surface geophysical surveys. An initial report with preliminary interpretations will be submitted shortly after completion of the Phase 1 geophysical surveys so that it can be provided to IRWD for evaluation before commencement of the Phase 2 SPT and sonic borings. After completion of the Phase 2 investigations, boring logs will be provided to the geophysical consultant so that they can calibrate their preliminary interpretations of the geophysical data with the boring data. This elicits a change of scope from 1 geophysical report to 2. The revised cost for the seismic refraction surveys with two reports is shown in our budget proposal which is submitted as a separate pdf file.

- 16. Test pit TP-1 and the associated test pit plan (described above) shall be included as a separate item in the cost estimate. The bidder shall describe their approach to the test pit, develop a cost estimate as a separate optional line item, and describe what is included in the cost estimate. During the geotechnical exploration phase, the Geotechnical Firm shall develop a Test Pit plan for DSOD review that includes a 20-foot-deep excavation that is considered safe and reasonable based on current information. The plan and cost estimate for the pit will be reviewed and updated based on the CPT, SPT and surface geophysical testing results as requested by IRWD.**

As previously mentioned in our proposal, we consider it a particularly challenging and costly endeavor to excavate a safe test pit for entry and in-situ testing below the water table. We therefore continue to encourage IRWD to consider alternative methods of getting density information at depths below the groundwater table. That said, we have developed a cost estimate to excavate the test pit to 20 feet below ground surface (bgs) with some basic assumptions that are consistent with the potential failure mode (PFM) of seismically induced liquefaction of the alluvial dam foundation and based on current information presented in the GIWP. In particular we refer to Cross Section A-A' of the GIWP which shows groundwater in Piezometer P-66 recording a historic high-water level of about 5 feet below ground surface and a recorded range during a 12-month period (presumably circa 2018-2019) that was from 12 to 20 feet bgs. Based on this information we developed a cost estimate assuming that groundwater will be encountered at approximately 12 to 15 feet bgs. We also estimated that the soils will be a layered sequence of Holocene alluvium consisting of medium dense silty sand, sandy gravel, and soft sandy silt.

We added Griffin Dewatering Company to our team to provide the technical expertise to dewater the test pit site. Griffin has the expertise to engineer and design a custom dewatering system to create dry, stable conditions for the excavation. Griffin developed a conceptual wellpoint dewatering system to lower the shallow groundwater table about 10 feet for the excavation. We consider it important to have a very good understanding of the subsurface conditions very close to or at the test pit site, including subsurface soils, depth to groundwater, and the hydraulic properties of the soil. For that reason, we are recommending that a Hollow Stem Auger boring to 25 feet bgs be done directly at the test pit site during the Phase 1 investigations. A two-inch diameter standpipe piezometer will be installed in the boring to facilitate depth to groundwater measurements. This information will be used to develop the test pit plan that will be submitted four weeks before start of the excavation and it can be used to evaluate the effectiveness of the dewatering system installed by Griffin. Note that this boring with piezometer, which would be done by Tri-County Drilling, is being proposed as optional Task 6 in our budget proposal.

Griffin's conceptual plan for dewatering involves the installation of three dewatering wells around the perimeter of the planned test pit. Wells will be drilled up to about 35 feet deep utilizing Griffin's bucket auger drilling rig to drill an up to 24-inch diameter borehole. The drilled wells will come with screen, casing, riser pipe, and a select filter pack. The pumping system which will include submersible turbine pumps connected to a gas-powered generator, will presumably need to be in operation for about 1 week prior to the start of the excavation. For cost estimating we have assumed that the water from the dewatering system can be discharged into the Rattlesnake Reservoir with a

discharge/pipe hose. If this is not allowed, then additional costs may be necessary to acquire an industrial waste discharge permit for disposal into the local sewer system. Following the completion of the sand cone density test at 20-foot depth, the dewatering system will be shut down, the equipment (generator, pumps, discharge hose) will be dismantled and removed from the project site. The wells will be abandoned by pulling the casing, drilling out the well pack, and backfilling the hole with drill cuttings.

The conceptual plan is that the test pit will be excavated down to near the top of the local groundwater table with 1:1 H:V sloped or benched trench walls. Assuming that the groundwater is at 12 to 15 feet bgs, we estimate that the floor of the test pit should be 20 by 20 feet at 15 feet bgs and the test pit will have a disturbance footprint that is approximately 50 feet by 50 feet at existing grade. Three sand cone density tests will be performed at 5-foot-depth intervals as the test pit is advanced to 15 feet bgs. Following the third sand cone density test at approximately 15 feet, a trench box will be placed on the trench floor. From that point the trench box will be used for shoring. Excavation will be done with the excavator from within the trench box. The trench box will be lowered progressively as the excavation advances. A certified trench safety “competent person” will inspect the test pit daily to verify that the excavation is in accordance with all OSHA and Cal OSHA standards.

After completion of the sand cone density test at 20 feet, the trench box cannot be entirely removed at once, as the trench could collapse and therefore compaction to DSOD’s standards would not be achieved. Therefore, the trench box will be gradually raised 2 feet and fill will be placed in 8-inch lifts and compacted with an excavator attachment (compaction wheel) in the bottom 2-3 feet before the trench box is raised again another ~2 feet for placement and compaction of another layer. This process will continue as needed until the trench box is entirely removed. After the trench box is removed and the center trench is backfilled, the upper sloped or benched portion of the test pit can be backfilled in 8-inch loose lifts and then compacted with both the excavator attachment and by track rolling with the 45,000 lb. excavator. Care must be taken that the compacted backfill replicates the native soil so that neither a hump (from under compaction) nor a depression (from over compaction) is created within the test pit footprint. We estimate the test pit excavation, in-situ testing, and backfilling of the bottom shore boxed portion of the trench will take 3 to 4 days to complete and that backfilling of the upper sloped portion of the trench will take an additional 2 days with an excavator and a loader.

Geologic logging and photographic documentation of the test pit will be done by a Professional Geologist (PG) and reviewed in the field by a Certified Engineering Geologist (CEG). The geologist will clean/scrape a 5-10 wide strip of the upper sloped or benched portion of the excavation to facilitate detailed inspection of the materials encountered. We understand that the trench box method of stabilization below 15 feet might hinder detailed logging, but we believe this is the only practical method to facilitate the local dewatering and provide safe entry to do the sand cone density test at 20 feet bgs. Some logging of the materials can be done of the excavation cut at the open end of the trench box and by examining the excavated materials. Furthermore, logging and sampling would be done of the optional HSA boring if IRWD elects to do that optional boring.

The change from our initial proposal which assumed a test pit that terminates at the groundwater table, to a test pit that will advance several feet below the groundwater table, will incur additional costs to our proposal. Additional cost will include the costs for the dewatering (Griffin), for drilling the proposed HSA boring (Tri-County Drilling), for the excavation contractor (ISG), and for AECOM labor. The revised cost for the test pit and for the optional HSA boring is shown in our budget proposal which is submitted as a separate pdf file. Note that the dewatering and excavation of the test pit is being proposed as optional Task 1 in our budget proposal and the HSA boring as optional Task 6.

AECOM understands that the proposed test pit location and details on the test pit dimensions and any special provisions for dewatering or excavation support will be cooperatively developed between the subcontractor, IRWD and the Engineer before the work is initiated. AECOM assumes that the plan

and cost estimate for the pit will be reviewed and updated based on the CPT, SPT, the surface geophysical testing results, and possibly the optional HSA Boring. If conditions are more favorable than assumed (e.g., groundwater depth very near or below the bottom of the 20-foot-deep test pit, and relatively dense soils) then the cost of the test pit can be substantially reduced by eliminating or reducing the dewatering system, and by using speed shores with plywood for the shoring system instead of a trench box. If groundwater is slightly above the bottom of the test pit, dewatering could potentially be accomplished with sump pumps within the trench box excavation instead of the well point system proposed by Griffin. Alternatively, if conditions are less favorable than assumed (e.g., a shallower groundwater table), and if the DSOD requires special requirements, the costs could potentially increase from what is presented in our budget. Also note that if IRWD reconsiders the need to extend the test pit below the water table, then the test pit can be completed for close to the cost previously submitted in our initial proposal (with a nominal additional cost for the compaction wheel suggested by DSOD comment Number 9).

## Questions About Laboratory Testing Qualifications

**17. Bidders shall provide a response to the following questions related to laboratory testing experience and capabilities:**

- a. **For the clay embankment materials – Describe your experience and capabilities in performing laboratory testing of undisturbed or prepare samples to develop a comprehensive shear strength model including: 1) Consolidation properties of the clay and estimates of the over consolidation ratio (OCR) for materials in the dam, 2) SHANSEP parameters from triaxial and direct shear testing, 3) Fully softened drained shear strength, 4) normally consolidated-undrained shear strength, and 5) potential for strength degradation due to seismic loading. The comprehensive shear strength model would be used to select the appropriate embankment properties for the different analyses that will be performed by others.**
  
- b. **For the sand, silty sand and sandy silt embankment and foundation alluvium – Describe your experience and capabilities in performing laboratory testing needed to support a liquefaction potential and triggering assessment including: 1) obtaining undisturbed samples in boreholes or test pits, 2) estimating the state line separating the contractive and dilative states of the different “sand-like” soil types that may be encountered at the Rattlesnake Dam site using both undisturbed and properly prepared disturbed (remolded) samples, and 3) providing other supporting laboratory testing information necessary for identifying if the foundation sands, and silty sands are above (contractive) or below (dilative) the state line.**

To enhance our capabilities to respond to questions 17a and 17b, AECOM has added TerraSense Laboratory (Lab Manager Gregory Thomas) to our team. The resume for Gregory Thomas is added as an attachment to this proposal supplement. TerraSense Lab CED, LLC (TerraSense) was formed in 2021 by Colliers Engineering & Design after the acquisition of TerraSense, LLC, a company that had been in operation since 2009 and which was a successor of several other ownerships during



which it has been known nationwide and internationally and has been in continual operation for over sixty years.

The laboratory is equipped and manned to provide a wide spectrum of soil and rock tests and facilities to handle large volume testing assignments. The testing provided covers all the primary tests such as water content, sieves, Atterberg Limits and chemical tests and a large number of tests not typically performed in smaller geotechnical laboratories such as triaxial testing (UC, UU, CIU, CID), consolidation, direct shear, direct simple shear (DSS), permeability and cyclical testing (triaxial and DSS). The laboratory is also equipped with facilities allowing it to be able to test many types of impacted soils. The laboratory is validated by the US Army Corps of Engineers and accredited by AASHTO (re:source).

The laboratory is equipped to perform all the standard index tests that may be required on a project of this type as well as numerous less common tests.

Many of the specimen preparation techniques in use today were developed in this laboratory or with personnel from the laboratory being actively involved in their development. The laboratory is equipped for handling intact tube samples from 1.5-inch to 5-inch diameter tubes and has also worked with block samples on several projects.

The laboratory is equipped with ten incremental consolidation systems, some with loading capacity of 165-ton for standard 2.5-inch diameter specimens, all with automatic data recording systems for real time analysis and allowing load increment advancement based on completion of Primary and Definition of Secondary Compression.

The laboratory has seven mechanical triaxial load frames and one servo-hydraulic frame. The servo-hydraulic system and one of the mechanical load frames is programmable for either load or deformation-controlled stress-path tests. A wide selection of transducers is available, with loads from 100-lb maximum to 200,000-lbs as well as a selection of displacement transducers, pore pressure transducers, and four volume change measurement systems.

The laboratory has two Direct Shear devices and one Direct Simple Shear device, and typically performs about 100 Direct Simple Shear tests per year.

Regarding question 17a:

1) The consolidation systems available provide the capacity and resources needed to define the virgin compression line needed for the estimation of the specimen maximum past pressure and definition of OCR for almost every sample that can be obtained. The laboratory typically performs 200 to 300 tests per year.

2) Over the history of the laboratory, numerous projects have been studied for the development of SHANSEP parameters using Triaxial and Direct Simple Shear testing (we have never used the Direct Shear test for this purpose) by testing at prescribed levels of OCR.

3) Fully softened strengths have been studied for both drained and undrained conditions by performing post-cyclic static shear tests on the softened material.

4) The large selection of Triaxial chambers and systems available allow testing on specimens from 1-inch to 4-inch in diameter and to effective stresses of up to 300-psi. Either Drained or Undrained testing is available for all systems, with the laboratory typically performing more than 200 Undrained triaxial tests and 50 Drained triaxial tests per year.

5) Either stress or deformation controlled cyclic loading is available for both Triaxial and Direct Simple Shear specimens for studying strength degradation.

Regarding Question 17b

AECOM has performed high quality undisturbed sampling using fixed-piston thin-walled samplers in rotary wash drill holes with drilling mud. This technique was used for sampling alluvium at the Diamond Valley Lake East dam during design. In addition, specimens can be reconstituted from soils obtained from large (12-inch diameter) sand cone tests in test pits.

TerraSense laboratory is involved in several Tailings dam projects each year which involve the testing needed to evaluate the liquefaction potential and triggering assessment for the sand, silty sands, and sandy silts present.

2) Testing has been performed to estimate the state-line on many of these projects by performing both drained and undrained tests at a variety of void ratios to approach the line from both the contractive and dilative sides of the line. While these tests are largely performed on remolded specimens to allow better control of the range of void ratios of interest, some intact samples are usually also used to provide an understanding of the influence of the specimen preparation.

**18. Depending on the findings under item 17b above along with the results of SPT blow counts, CPT data evaluation, and consideration of surface geophysical testing, the selected Geotechnical Firm may be requested to perform 1) load controlled consolidated undrained (CU), or 2) drained stress path controlled triaxial testing on either undisturbed or remolded samples. Such tests would provide the basis to confirm liquefaction potential, identify the void ratio and mean normal effective stress at the time of sample collapse (liquefaction), and identify the liquefied undrained strength for comparison with estimates of the undrained shear strength from the SPT and CPT data. To clarify the Consultants capabilities and experience in performing laboratory testing to support estimation of collapse surface and undrained (liquefied) strength properties, the supplemental information shall further describe their ability to performed either or both triaxial testing methods described above. Costs associated with additional testing is not required at this time.**

To enhance our capabilities to respond to questions 18, AECOM has added TerraSense Laboratory (Lab Manager Gregory Thomas) to our team.

The standard high quality static tests the laboratory performs (along with the associated index property tests) are sufficient to obtain much of the data needed for this part of the assessment and when used in conjunction with the cyclic (and post cyclic) testing capabilities available present a selection of avenues to study the collapse (static liquefaction) potential.

An example of this is the testing performed in the laboratory to identify the probable cause of the Edenville Dam collapse. While testing was limited to standard testing on this project, more advanced techniques were considered if further testing had been needed.

Load frames to provide both a modified static deformation-controlled shear along with the capacity to switch to a static minimum stress after failure to follow the specimen collapse and the servo-hydraulic loading system which allows cyclic testing under anisotropic loading conditions could be used in this study if required.

**Estimated Cost Breakdown of Total Fee (including Optional Tasks)**

Irvine Ranch Water District (IRWD)  
Rattlesnake Dam Issue Evaluation Study  
March 28, 2023

| Task No.  | Task Description   | AECOM Labor Hours                                |                                |   |  |   |  |               |                   | AECOM TOTAL HOURS | AECOM LABOR COSTS | AECOM SUB-CONTRACTOR COSTS (no mark-up) | AECOM DIRECT COSTS & MATERIALS <sup>1</sup> | TOTAL             |
|---|--|--|--------------------------------|---|--|---|--|---------------|-------------------|-------------------|-------------------|---|---|-------------------|
|   |  | Project Manager / Principal Engineer / Architect | Senior Specialist / Consultant | Senior Engineer / Scientist / Geologist / Architect | Project Engineer / Scientist / Geologist / Architect | Senior Staff Engineer / Scientist / Geologist | Staff Engineer / Scientist / Geologist | Project Admin | Office / Clerical |                   |                   |   |   |                   |
|   |  | \$280  | \$250                          | \$190   | \$170  | \$130   | \$110                                  | \$90          | \$80              |                   |                   |   |   |                   |
| <b>Task 1 - Project Management</b>  |  |  |                                |   |  |   |  |               |                   |                   |                   |   |   |                   |
| 1.1   | Project Management   | 50   |                                |   |  |   |  | 40            | 40                | 130               | \$ 20,800         |   |   | \$ 20,800         |
| 1.2   | Preparation and monthly update of Project Schedule                                       | 10   |                                |   |  |   |  | 20            |                   | 30                | \$ 5,000          |   |   | \$ 5,000          |
| 1.3   | Meetings and Workshops (includes preparation of agendas and minutes)                     | 25   |                                | 32  | 8  |   |  | 16            |                   | 81                | \$ 16,200         | \$ -                                    |   | \$ 16,200         |
| 1.4   | Preparation of Monthly Status Reports  | 6  |                                |   |  |   |  | 16            |                   | 22                | \$ 3,440          |   |   | \$ 3,440          |
|   | <b>SUBTOTAL TASK 1</b>   | <b>91</b>  |                                | <b>32</b>   | <b>8</b>   |   |  | <b>52</b>     | <b>40</b>         | <b>263</b>        | <b>\$ 45,440</b>  | <b>\$ -</b>                             | <b>\$ -</b>                                 | <b>\$ 45,440</b>  |
| <b>Task 2 - Pre Exploration Activities</b>  |  |  |                                |   |  |   |  |               |                   |                   |                   |   |   |                   |
| 2.1   | Health and Safety Plan   | 2  |                                | 8   |  | 40  |  |               |                   | 50                | \$ 7,280          | \$ 50                                   |   | \$ 7,330          |
| 2.2   | Acquire Well Permits from OCHCA  | 2  |                                | 4   |  | 40  |  |               |                   | 46                | \$ 6,520          | \$ -                                    |   | \$ 6,520          |
| 2.3   | Utility Clearance  | 2  |                                | 2   |  | 8   |  |               |                   | 12                | \$ 1,980          | \$ -                                    |   | \$ 1,980          |
|   | <b>SUBTOTAL TASK 2</b>   | <b>6</b>   |                                | <b>14</b>   |  | <b>88</b>                                     |  |               |                   | <b>108</b>        | <b>\$ 15,780</b>  | <b>\$ -</b>                             | <b>\$ 50</b>                                | <b>\$ 15,830</b>  |
| <b>Task 3 - Phase 1 Investigations</b>  |  |  |                                |   |  |   |  |               |                   |                   |                   |   |   |                   |
| 3.1   | Cone Penetration Tests   | 2  |                                | 8   |  | 40  |  |               |                   | 50                | \$ 7,280          | \$ 34,020                               | \$ 360                                      | \$ 41,660         |
| 3.2   | Seismic Refraction Lines   | 2  |                                | 8   |  | 50  |  |               |                   | 60                | \$ 8,580          | \$ 56,284                               | \$ 360                                      | \$ 65,224         |
|   | <b>SUBTOTAL TASK 3</b>   | <b>4</b>   |                                | <b>16</b>   |  | <b>90</b>                                     |  |               |                   | <b>110</b>        | <b>\$ 15,860</b>  | <b>\$ 90,304</b>                        | <b>\$ 720</b>                               | <b>\$ 106,884</b> |
| <b>Task 4 - Phase 2 Investigations</b>  |  |  |                                |   |  |   |  |               |                   |                   |                   |   |   |                   |
| 4.1   | SPT Borings  | 8  |                                | 60  |  | 235   |  |               |                   | 303               | \$ 44,190         | \$ 191,312                              | \$ 3,200                                    | \$ 238,702        |
| 4.2   | Sonic Borings  | 2  |                                | 8   |  | 32  |  |               |                   | 42                | \$ 6,240          | \$ 38,080                               | \$ 360                                      | \$ 44,680         |
| 4.3   | Downhole Geophysical Testing   |  |                                | 2   |  | 8   |  |               |                   | 10                | \$ 1,420          | \$ 36,992                               |   | \$ 38,412         |
| 4.4   | Well Installation and Development (includes 4 transducers and 2 data loggers)            |  |                                | 2   |  | 8   |  |               |                   | 10                | \$ 1,420          | \$ 9,420                                | \$ 6,514                                    | \$ 17,354         |
| 4.5   | Spillway Core Borings  | 2  |                                | 4   |  | 32  |  |               |                   | 38                | \$ 5,480          | \$ 27,114                               | \$ 360                                      | \$ 32,954         |
| 4.6   | Slug Testing   |  |                                | 8   |  | 8   |  |               |                   | 16                | \$ 2,560          | \$ -                                    | \$ 90                                       | \$ 2,650          |
|   | <b>SUBTOTAL TASK 4</b>   | <b>12</b>  |                                | <b>84</b>   |  | <b>323</b>                                    |  |               |                   | <b>419</b>        | <b>\$ 61,310</b>  | <b>\$ 302,918</b>                       | <b>\$ 10,524</b>                            | <b>\$ 374,752</b> |
| <b>Task 5 - Sample Collection and Storage</b>   |  |  |                                |   |  |   |  |               |                   |                   |                   |   |   |                   |
| 5.1   | Samples taken to Anaheim Lab for temporary storage, photography, core review and testing |  |                                | 16  |  |   |  |               |                   | 16                | \$ 3,040          |   | \$ 90                                       | \$ 3,130          |
| 5.2   | Samples returned to Rattlesnake Dam for permanent storage in shipping container          |  |                                |   |  | 8   | 8                                      |               |                   | 16                | \$ 1,920          |   | \$ 90                                       | \$ 2,010          |
|   | <b>SUBTOTAL TASK 5</b>   |  |                                | <b>16</b>   |  | <b>8</b>                                      | <b>8</b>                               |               |                   | <b>32</b>         | <b>\$ 4,960</b>   | <b>\$ -</b>                             | <b>\$ 180</b>                               | <b>\$ 5,140</b>   |
| <b>Task 6 - Laboratory Testing</b>  |  |  |                                |   |  |   |  |               |                   |                   |                   |   |   |                   |
|   | <b>SUBTOTAL TASK 6</b>   |  |                                |   | 16   |   |  |               |                   | <b>18</b>         | <b>\$ 3,280</b>   | <b>\$ -</b>                             | <b>\$ 38,430</b>                            | <b>\$ 41,710</b>  |
| <b>Task 7 - Geotechnical Data Reports</b>   |  |  |                                |   |  |   |  |               |                   |                   |                   |   |   |                   |
| 7.1   | Preliminary Geotechnical Data Report for Phase 1 Investigations                          | 1  | 1                              | 8   |  | 24  | 4                                      |               |                   | 38                | \$ 5,610          |   | \$ -  | \$ 5,610          |
| 7.2   | Draft Geotechnical Data Report   | 16   | 16                             | 80  | 8  | 120   | 40                                     |               |                   | 280               | \$ 45,040         | \$ 9,440                                | \$ -  | \$ 54,480         |
| 7.3   | Final Geotechnical Data Report   | 8  | 8                              | 24  | 4  | 24  | 24                                     |               |                   | 92                | \$ 15,240         | \$ -                                    | \$ -  | \$ 15,240         |
|   | <b>SUBTOTAL TASK 7</b>   | <b>25</b>  | <b>25</b>                      | <b>112</b>  | <b>12</b>  | <b>168</b>                                    | <b>68</b>                              |               |                   | <b>410</b>        | <b>\$ 65,890</b>  | <b>\$ 9,440</b>                         | <b>\$ -</b>                                 | <b>\$ 75,330</b>  |
|   | <b>TOTAL</b>   | <b>138</b>                                       | <b>25</b>                      | <b>274</b>  | <b>36</b>  | <b>677</b>                                    | <b>128</b>                             | <b>40</b>     | <b>40</b>         | <b>1,358</b>      | <b>\$ 212,520</b> | <b>\$ 402,662</b>                       | <b>\$ 49,904</b>                            | <b>\$ 665,086</b> |
| <b>Drill Extra Sonic Borings - Optional Task 2</b>  |  |  |                                |   |  |   |  |               |                   |                   |                   |   |   |                   |
|   | Drill 2 Extra Sonic Borings  |  |                                |   |  | 32  |  | 1             |                   | 33                | \$ 4,250          | \$ 35,295                               | \$ 360                                      | \$ 39,905         |
|   | <b>SUBTOTAL OPTIONAL TASK 2</b>  |  |                                |   |  | <b>32</b>                                     |  | <b>1</b>      |                   | <b>33</b>         | <b>\$ 4,250</b>   | <b>\$ 35,295</b>                        | <b>\$ 360</b>                               | <b>\$ 39,905</b>  |
| <b>Extra Footage for SPT Borings (rat holes for P-S Suspension Logging) - Optional Task 3</b>     |  |  |                                |   |  |   |  |               |                   |                   |                   |   |   |                   |
|   | Extra Footage for SPT Borings ("rat holes" for P-S Suspension logging)                   |  |                                | 2   |  | 16  |  | 1             |                   | 19                | \$ 2,550          | \$ 8,820                                | \$ 180                                      | \$ 11,550         |
|   | <b>SUBTOTAL OPTIONAL TASK 3</b>  |  |                                | <b>2</b>  |  | <b>16</b>                                     |  | <b>1</b>      |                   | <b>19</b>         | <b>\$ 2,550</b>   | <b>\$ 8,820</b>                         | <b>\$ 180</b>                               | <b>\$ 11,550</b>  |
| <b>Core Drill an Extra 75' for Boring 22SPT-2 to Penetrate bedrock 100 feet - Optional Task 5</b> |  |  |                                |   |  |   |  |               |                   |                   |                   |   |   |                   |
|   | Core Drill and Extra 75' for Boring 22SPT-2 to Penetrate Bedrock 100 feet                | 2  |                                | 4   |  | 24  |  | 1             |                   | 31                | \$ 4,530          | \$ 19,774                               | \$ 270                                      | \$ 24,574         |
|   | <b>SUBTOTAL OPTIONAL TASK 5</b>  | <b>2</b>   |                                | <b>4</b>  |  | <b>24</b>                                     |  | <b>1</b>      |                   | <b>31</b>         | <b>\$ 4,530</b>   | <b>\$ 19,774</b>                        | <b>\$ 270</b>                               | <b>\$ 24,574</b>  |
|   | <b>OPTIONAL TASKS TOTAL</b>  | <b>2</b>   |                                | <b>6</b>  |  | <b>72</b>                                     |  | <b>3</b>      |                   | <b>83</b>         | <b>\$ 11,330</b>  | <b>\$ 63,889</b>                        | <b>\$ 900</b>                               | <b>\$ 76,029</b>  |
|   | <b>GRAND TOTAL (BASE + OPTIONAL TASKS)</b>   | <b>140</b>                                       | <b>25</b>                      | <b>280</b>  | <b>36</b>  | <b>749</b>                                    | <b>128</b>                             | <b>43</b>     | <b>40</b>         | <b>1,441</b>      | <b>\$ 223,850</b> | <b>\$ 466,551</b>                       | <b>\$ 50,804</b>                            | <b>\$ 741,115</b> |

Notes:

1. Direct Costs / Materials provided with no markup and include costs such as geotechnical lab testing, sampling gear and field supplies, mileage to meetings and project site, use of AECOM fleet vehicles, boring well permits, courier fees, and document fees reproduction. costs.



**Estimated Subcontractor/Subconsultant Costs**

Irvine Ranch Water District (IRWD)

Rattlesnake Dam Issue Evaluation Study

March 28, 2023

| Task No.                               | Task Description   | Subconsultant/Subcontractor Costs |                   |                  |                  |                 | TOTAL             |
|--|--|-----------------------------------|-------------------|------------------|------------------|-----------------|-------------------|
|  |  | Tri County Drilling               | BC2 Environmental | Kehoe            | Geovision        | dot.dat.inc     |                   |
| <b>Task 3 - Phase 1 Investigations</b> |  |                                   |                   |                  |                  |                 |                   |
| 3.1                                    | Cone Penetration Tests   | \$ -                              | \$ -              | \$ 34,020        | \$ -             | \$ -            | \$ 34,020         |
| 3.2                                    | Seismic Refraction Surveys   | \$ -                              | \$ -              | \$ -             | \$ 56,284        | \$ -            | \$ 56,284         |
| <b>SUBTOTAL TASK 2</b>                 |  | <b>\$ -</b>                       | <b>\$ -</b>       | <b>\$ 34,020</b> | <b>\$ 56,284</b> | <b>\$ -</b>     | <b>\$ 90,304</b>  |
| <b>Task 4 - Phase 2 Investigations</b> |  |                                   |                   |                  |                  |                 |                   |
| 4.1                                    | SPT Borings with Packer Testing, standby for geophysical testing, and backfill | \$ 191,312                        | \$ -              | \$ -             | \$ -             | \$ -            | \$ 191,312        |
| 4.2                                    | Sonic Borings  | \$ -                              | \$ 38,080         | \$ -             | \$ -             | \$ -            | \$ 38,080         |
| 4.3                                    | Downhole Geophysical Testing   | \$ -                              | \$ -              | \$ -             | \$ 36,992        | \$ -            | \$ 36,992         |
| 4.4                                    | Well Installation and Development  | \$ 9,420                          | \$ -              | \$ -             | \$ -             | \$ -            | \$ 9,420          |
| 4.5                                    | Spillway Borings   | \$ 25,000                         | \$ -              | \$ -             | \$ 2,114         | \$ -            | \$ 27,114         |
| <b>SUBTOTAL TASK 3</b>                 |  | <b>\$ 225,732</b>                 | <b>\$ 38,080</b>  | <b>\$ -</b>      | <b>\$ 39,106</b> | <b>\$ -</b>     | <b>\$ 302,918</b> |
| 7.1 & 7.2                              | Data Report (Draft and Final)  | \$ -                              | \$ -              | \$ -             | \$ -             | \$ 9,440        | \$ 9,440          |
| <b>TOTAL</b>                           |  | <b>\$ 225,732</b>                 | <b>\$ 38,080</b>  | <b>\$ 34,020</b> | <b>\$ 95,390</b> | <b>\$ 9,440</b> | <b>\$ 402,662</b> |

**Estimated Subcontractor/Subconsultant Costs of Optional Tasks**

Irvine Ranch Water District (IRWD)

Rattlesnake Dam - Issue Evaluation Study

March 28, 2023

| Task No.              | Task Description   | Subcontract Amount (\$) |                   | TOTAL     |
|-----------------------|--|-------------------------|-------------------|-----------|
|                       |  | Tri County Drilling     | BC2 Environmental |           |
| <b>Optional Tasks</b> |  |                         |                   |           |
| Optional Task 2       | Drill 2 Extra Sonic Borings  |                         | \$ 35,295         | \$ 35,295 |
| Optional Task 3       | Extra footage for SPT Borings ("rat holes" for P-S Suspension logging) | \$ 8,820                |                   | \$ 8,820  |
| Optional Task 5       | Extra Footage (75 feet) for Boring 22SPT-2                             | \$ 19,774               |                   | \$ 19,774 |
| <b>TOTAL</b>          |  | \$ 28,594               | \$ 35,295         | \$ 63,889 |

**Geotechnical Investigation Laboratory Testing Schedule (Preliminary) for Rattlesnake Dam Issue Evaluation Study**

| Borehole / Test Pit No. | Sampling Method  | Design Feature/Location  | Sample Type               | Approximate No. of Samples    | USCS Class. ASTM D2487 | Water Content ASTM D2216 | Density ASTM D7263 | Grain Size (ASTM D 6913) with Hydrometer (ASTM D7928)(2) | Atterberg ASTM D4318 | Specific Gravity ASTM D854 | Standard Proctor ASTM D698 | Pinhole Dispersion Test ASTM D 4647 | 1-D Consolidation ASTM D2435 (3) | UU Triaxial ASTM D2850 (4) | CU Triaxial ASTM D4767 (5) | Flex. Wall Permeameter ASTM D5084 (6) | Slake Durability ASTM D4644 | Rock Core Strength and Moduli ASTM D7012 |                 |
|-------------------------|--|--|---------------------------|-------------------------------|------------------------|--------------------------|--------------------|--|----------------------|----------------------------|----------------------------|-------------------------------------|----------------------------------|----------------------------|----------------------------|---------------------------------------|-----------------------------|--|-----------------|
|                         |  |  | <b>TOTAL:</b>             | <b>125</b>                    | <b>162</b>             | <b>162</b>               | <b>44</b>          | <b>37</b>  | <b>31</b>            | <b>4</b>                   | <b>2</b>                   | <b>12</b>                           | <b>4</b>                         | <b>13</b>                  | <b>7</b>                   | <b>4</b>                              | <b>4</b>                    | <b>4</b>                                 |                 |
|                         |  |  | <b>UNIT TEST COST, \$</b> |                               | <b>\$0</b>             | <b>\$23</b>              | <b>\$41</b>        | <b>\$239</b>   | <b>\$195</b>         | <b>\$162</b>               | <b>\$272</b>               | <b>\$329</b>                        | <b>\$900</b>                     | <b>\$173</b>               | <b>\$465</b>               | <b>\$386</b>                          | <b>\$216</b>                | <b>\$340</b>                             |                 |
|                         |  |  | <b>COST SUBTOTAL, \$</b>  |                               | <b>\$0</b>             | <b>\$3,726</b>           | <b>\$1,804</b>     | <b>\$8,843</b>   | <b>\$6,045</b>       | <b>\$648</b>               | <b>\$544</b>               | <b>\$3,948</b>                      | <b>\$3,600</b>                   | <b>\$2,249</b>             | <b>\$3,255</b>             | <b>\$1,544</b>                        | <b>\$864</b>                | <b>\$1,360</b>                           |                 |
| 22SPT-1                 | Boring; Hollow Stem Auger with SPTs on 5-foot centers to bedrock then HQ wireline core continuous sampling in bedrock. | Foundation seepage and seismic stability assessment                            | Soil: Alluvium            | 11                            | 11                     | 11                       | 6                  | 2  | 1                    |                            |                            |                                     | 1                                | 1                          | 1                          | 1                                     |                             |  |                 |
|                         |  |  | Rock                      | 15 to 25 feet continuous      |                        |                          |                    |  |                      |                            |                            |                                     |                                  |                            |                            |                                       |                             | 1  |                 |
| 22SPT-2                 | Boring; Hollow Stem Auger with continuous SPTs to bedrock then HQ wireline or continuous sampling in bedrock           | Foundation and embankment seepage and seismic stability design                 | Soil: Embankment          | 8                             | 8                      | 8                        | 4                  | 2  | 2                    | 1                          |                            | 1                                   | 1                                | 1                          |                            |                                       |                             |  |                 |
|                         |  |  | Soil: Alluvium            | 9                             | 9                      | 9                        | 2                  | 2  | 1                    |                            | 1                          | 1                                   | 1                                | 1                          | 1                          | 1                                     |                             |  |                 |
|                         |  |  | Rock                      | 15 to 25 feet continuous      |                        |                          |                    |  |                      |                            |                            |                                     |                                  |                            |                            |                                       |                             | 1  |                 |
| 22SPT-3                 | Boring; Hollow Stem Auger with continuous SPTs to bedrock then HQ wireline or dry core continuous sampling in bedrock  | Foundation and embankment seepage and seismic stability design                 | Soil: Embankment          | 21                            | 21                     | 21                       | 2                  | 3  | 3                    |                            |                            | 1                                   |                                  | 1                          | 1                          | 1                                     |                             |  |                 |
|                         |  |  | Soil: Alluvium            | 6                             | 6                      | 6                        | 2                  | 1  | 1                    |                            |                            | 1                                   |                                  | 1                          | 1                          |                                       |                             |  |                 |
|                         |  |  | Rock                      | 15 to 25 feet continuous      |                        |                          |                    |  |                      |                            |                            |                                     |                                  |                            |                            |                                       |                             | 1  |                 |
| 22SPT-4                 | Boring; Hollow Stem Auger with continuous SPTs to bedrock then HQ wireline or dry core continuous sampling in bedrock  | Foundation and embankment seepage and seismic stability design                 | Soil: Embankment          | 15                            | 15                     | 15                       | 2                  | 3  | 3                    | 1                          |                            | 1                                   |                                  | 1                          | 1                          |                                       |                             |  |                 |
|                         |  |  | Soil: Alluvium            | 7                             | 7                      | 7                        | 2                  | 2  | 1                    |                            |                            | 1                                   |                                  | 1                          | 1                          |                                       |                             |  |                 |
|                         |  |  | Rock                      | 15 to 25 feet continuous      |                        |                          |                    |  |                      |                            |                            |                                     |                                  |                            |                            |                                       |                             | 1  |                 |
| 22SPT-5a                | Boring; Hollow Stem Auger to bedrock then HQ-size wireline coring or continuous dry sampling in bedrock.               | Foundation and embankment seepage and seismic stability design, right abutment | Soil: Embankment          | 6                             | 6                      | 6                        | 2                  | 2  | 2                    |                            |                            | 1                                   | 1                                | 1                          | 1                          |                                       |                             |  |                 |
|                         |  |  | Soil: Alluvium            | 7                             | 7                      | 7                        | 2                  | 2  | 1                    | 1                          |                            | 1                                   |                                  | 1                          |                            | 1                                     |                             |  |                 |
|                         |  |  | Rock                      | 15 to 25 feet continuous      |                        |                          |                    |  |                      |                            |                            |                                     |                                  |                            |                            |                                       |                             |  |                 |
| 22SPT-5b                | Boring; HQ-size wireline coring or continuous dry sampling in bedrock  | Right Abutment   | Soil: Embankment          | 7                             | 7                      | 7                        | 2                  | 2  | 2                    |                            |                            | 1                                   |                                  | 1                          |                            |                                       |                             |  |                 |
|                         |  |  | Soil: Alluvium            | 7                             | 7                      | 7                        | 2                  | 2  | 1                    |                            | 1                          | 1                                   |                                  | 1                          | 1                          |                                       |                             |  |                 |
|                         |  |  | Rock                      | 15 to 25 feet continuous      |                        |                          |                    |  |                      |                            |                            |                                     |                                  |                            |                            |                                       |                             |  |                 |
| 22SPT-6                 | Boring; Hollow Stem Auger to bedrock then HQ-size wireline coring or continuous dry sampling in bedrock.               | Foundation and embankment seepage and seismic stability design                 | Soil: Embankment          | 8                             | 8                      | 8                        | 2                  | 2  | 2                    |                            |                            | 1                                   | 1                                | 1                          |                            |                                       |                             |  |                 |
|                         |  |  | Soil: Alluvium            | 9                             | 9                      | 9                        | 2                  | 2  | 1                    | 1                          |                            | 1                                   |                                  | 1                          |                            |                                       |                             |  |                 |
|                         |  |  | Rock                      | 15 to 25 feet continuous      |                        |                          |                    |  |                      |                            |                            |                                     |                                  |                            |                            |                                       |                             |  |                 |
| Sonic 1                 | Boring; Sonic drilling to bedrock  | Assessment of chimney drain and alluvium                                       | Soil                      | Continuous sampling for 95 ft | 19                     | 19                       | 4                  | 4  | 4                    |                            |                            |                                     |                                  |                            |                            |                                       | 2                           |  |                 |
| Sonic 2                 | Boring; Sonic drilling to bedrock  | Assessment of chimney drain and alluvium                                       | Soil                      | Continuous sampling for 90 ft | 18                     | 18                       | 4                  | 4  | 4                    |                            |                            |                                     |                                  |                            |                            |                                       | 2                           |  |                 |
| TP-1                    | Exploratory Pit  | Foundation seismic stability   | Soil                      | 4                             | 4                      | 4                        | 4                  | 2  | 2                    |                            |                            |                                     |                                  |                            |                            |                                       |                             |  |                 |
| 22RC-1                  | Boring; coring through spillway into bedrock   | Spillway   | Rock                      | 10 ft continuous              |                        |                          |                    |  |                      |                            |                            |                                     |                                  |                            |                            |                                       |                             |  |                 |
| 22RC-2                  | Boring; coring through spillway into bedrock   | Spillway   | Rock                      | 10 ft continuous              |                        |                          |                    |  |                      |                            |                            |                                     |                                  |                            |                            |                                       |                             |  |                 |
| 22RC-3                  | Boring; coring through spillway into bedrock   | Spillway overflow  | Rock                      | 10 ft continuous              |                        |                          |                    |  |                      |                            |                            |                                     |                                  |                            |                            |                                       |                             |  |                 |
|                         |  |  |                           |                               |                        |                          |                    |  |                      |                            |                            |                                     |                                  |                            |                            |                                       |                             | <b>TOTAL</b>                             | <b>\$38,430</b> |

**Notes and Assumptions:**

1. Engineer may revise the testing schedule based on results observed in the field. The testing schedule above is provided for scheduling and cost estimate information only. Verify testing requirements with Engineer prior to starting the work.
2. Engineer may reduce gradation testing requirements for select samples by reducing gradation tests to a "wash No. 200", omitting test steps for sieving the portion retained on the #200 sieve.
3. Perform test with a rebound cycle at 5 ksf and a maximum axial stress of 20 ksf.
4. Compact 3 UU Triaxial specimens to develop envelope from each sample [95% ASTM D698 Maximum Dry Density (MDD) and Optimum Moisture Content (OMC) +2%]; confining pressure at 2 ksf, 6 ksf, and 18 ksf.
5. Compact 3 CU Triaxial specimens to develop envelope from each sample [95% MDD, OMC +2%]; consolidate to 2 ksf, 6 ksf, and 18 ksf. Use a minimum 4-inch diameter specimen for as-compacted strength testing of rock.
6. Compact Flex. Wall Permeameter specimen to 95% MDD, OMC, and complete test with 2 ksf confining pressure.
7. Complete testing in accordance with referenced ASTM Standard and information provided herein.

**BC2 Environmental - Drilling Estimate for Sonic Borings**

| <b>Task</b>  | <b>Task Description</b>   | <b>Unit</b> | <b>Quantity</b> | <b>Unit Rate</b> | <b>Total</b>    |
|--------------|---|-------------|-----------------|------------------|-----------------|
| 4.2          | Mobilization/demobilization   | LS          | 1               | \$1,200          | \$1,200         |
| 4.2          | Daily Crew Travel   | Each        | 4               | \$300            | \$1,200         |
| 4.2          | Sonic Rig & Crew on site up to 10 hours                                 | Day         | 4               | \$5,000          | \$20,000        |
| 4.2          | 6" Borehole Backfill  | Foot        | 185             | \$12             | \$2,220         |
| 4.2          | Prevailing Wage Per man Per hour Portal to Portal up to 8 hours per day | Hour        | 96              | \$75             | \$7,200         |
| 4.2          | Prevailing Wage Per man Per hour Portal to Portal over 8 hours per day  | Hour        | 30              | \$112            | \$3,360         |
| 4.2          | Delivery/Pick-Up Forklift   | LS          | 1               | \$400            | \$400           |
| 4.2          | Forklift Daily Rental   | Day         | 4               | \$325            | \$1,300         |
| 4.2          | Support Trucks  | Day         | 4               | \$300            | \$1,200         |
| Option 2     | Drill Extra Sonic Borings   | Each        | 2               | \$17,648         | \$35,295        |
| <b>TOTAL</b> |   |             |                 |                  | <b>\$73,375</b> |

**dot.dat.inc - Estimate for gINT Services**

|   | <b>Unit</b> | <b>Quantity</b> | <b>Unit Rate</b> | <b>Total</b>  |
|---|-------------|-----------------|------------------|---------------|
| Logs of Sonic Borings (soil only)   | Hour        | 20              | \$80.00          | \$1,600       |
| Logs of SPT Borings-mixed core and soil borings, including fracture sketches, packer tests, and piezometer installation information | Hour        | 80              | \$80.00          | \$6,400       |
| Logs of Spillway Borings  | Hour        | 10              | \$80.00          | \$800         |
| Develop Stick logs for report figures   | Hour        | 8               | \$80.00          | \$640         |
| <b>TOTAL</b>  |             |                 |                  | <b>\$9440</b> |

### GEOVision - Estimate for Surface Geophysics

| Task         | Task Description                             | Unit  | Quantity | Unit Rate | Total           |
|--------------|--|-------|----------|-----------|-----------------|
| <b>4.5</b>   | <b>Ground Penetrating Radar Slab Markout</b> |       |          |           |                 |
| 4.5          | Senior Geotechnical Technician               | Hours | 4        | \$196     | \$782           |
| 4.5          | Geophysical Technician II                    | Hours | 4        | \$196     | \$782           |
| 4.5          | Utility Locating Vehicle                     | Day   | 1        | \$550     | \$550           |
| <b>3.2</b>   | <b>Seismic Refraction Geophysical Survey</b> |       |          |           |                 |
| 3.2          | Senior Staff Geophysicist                    | Hours | 60       | \$196     | \$11,730        |
| 3.2          | Staff Geophysicist                           | Hours | 120      | \$196     | \$23,460        |
| 3.2          | Equipment Fees: 48 Channel SRT System        | Day   | 6        | \$830     | \$4,980         |
| <b>3.2</b>   | <b>Processing and Reporting</b>              |       |          |           |                 |
| 3.2          | Staff Geophysicist                           | Hours | 64       | \$100     | \$6,400         |
| 3.2          | Senior Geophysicist                          | Hours | 40       | \$190     | \$7,600         |
| <b>TOTAL</b> |  |       |          |           | <b>\$56,284</b> |

**NOTES**

1. The site will be easily accessible to GEOVision staff and vehicles at the time arranged for the survey

### GEOVision - Estimate for Borehole Geophysics

| Task         | Task Description                | Unit  | Quantity | Unit Rate | Total           |
|--------------|---------------------------------|-------|----------|-----------|-----------------|
| 4.3          | Mobilization /Demobilization    | Hours | 14       | \$196     | \$2,737         |
| 4.3          | Borehole Logging                | hours | 50       | \$196     | \$9,775         |
|              | <b>Equipment Fees</b>           |       |          |           |                 |
| 4.3          | Televiewer                      | Day   | 7        | \$610     | \$4,270         |
| 4.3          | Suspension                      | Day   | 7        | \$1,100   | \$7,700         |
|              | <b>Processing and Reporting</b> |       |          |           |                 |
| 4.3          | Processing Each borehole        | Each  | 56       | \$130     | \$7,280         |
| 4.3          | report                          | Foot  | 27       | \$190     | \$5,130         |
| <b>TOTAL</b> |                                 |       |          |           | <b>\$36,992</b> |

**NOTES**

1. The site will be easily accessible to GEOVision staff and vehicles at the time arranged for the survey
2. GEOVision reserves the right to NOT log a borehole if conditions indicate that there is a strong possibility that we will lose a logging tool. This is rare, but it can happen. An example is, if there has been significant and continuing collapse in the borehole and attendant loss of circulation. Then the drill string gets stuck, etc.

**Tri County - Estimate for Hollow Stem Auger / Core Drilling Including Packer Tests and Piezometer Installations**

| <b>Task</b> | <b>Task Description</b>   | <b>Unit</b> | <b>Quantity</b> | <b>Unit Rate</b>               | <b>Total</b>     |
|-------------|---|-------------|-----------------|--------------------------------|------------------|
| 4.1         | Mobilization/demobilization   | LS          | 1               | \$6,150                        | \$6,150          |
| 4.1         | Move and Set up drilling equipment each boring  | Each        | 10              | \$1,280                        | \$12,800         |
| 4.1         | Drill rig operation for SPT Borings including packer testing  | Day         | 30              | \$4,770                        | \$143,100        |
| 4.1         | Drill rig operation for Spillway Borings  | Day         | 4               | \$4,570                        | \$18,280         |
| 4.1         | Crane move on and move off 3 day rental   | LS          | 1               | \$6,720                        | \$6,720          |
| 4.1         | Wooden core boxes   | Each        | 14              | \$88                           | \$1,232          |
| 4.1         | Diamond core bits, lifters, shoes, fluid additives, grout material  | Feet        | 205             | \$9                            | \$1,845          |
| 4.1         | Backfill borings with cement grout by tremie methods  | Feet        | 770             | \$5                            | \$3,465          |
| 4.1         | Directed standby for Geophysical Logging or other non drilling functions  | Hour        | 30              | \$370                          | \$11,100         |
| 4.1         | Install 1 1/2 " PVC open tube piezometers in 2 borings, includes well development, PVC casing and scree, sand filter, grout seal, flush mounted surface vault set in 2'x2' concrete pad | Each        | 2               | \$4,710                        | \$9,420          |
| 4.1         | Drums for IDW with disposal at appropriate landfill-non hazardous   | Each        | 35              | \$332                          | \$11,620         |
| Option 3    | 15 feet extra footage each SPT boring (optional)  | Each        | 7               | \$1,260                        | \$8,820          |
| Option 5    | Extra Footage (75 feet) for Boring 22SPT-2  | Each        | 1               | \$19,774.00                    | \$19,774         |
|             |   |             |                 | <b>TOTAL (without options)</b> | <b>\$225,732</b> |
|             |   |             |                 | <b>TOTAL (with options)</b>    | <b>\$254,326</b> |

### Kehoe Testing & Engineering Inc.- CPTs

| Task         | Task Description                           | Unit | Quantity | Unit Rate  | Total              |
|--------------|--|------|----------|------------|--------------------|
| 3.1          | CPT Soundings w/CPT Rig                    | Hour | 32       | \$520.00   | \$16,640.00        |
| 3.1          | CPT Soundings w/CPT Rig (Overtime)         | Hour | 10       | \$580.00   | \$5,800.00         |
| 3.1          | Seismic Shear Wave Measurements            | Each | 144      | \$30.00    | \$4,320.00         |
| 3.1          | Additional Direct Push Onsite for Grouting | Day  | 4        | \$1,200.00 | \$4,800.00         |
| 3.1          | 2" Disposable Tips for Grouting            | Each | 12       | \$10.00    | \$120.00           |
| 3.1          | Portland Cement                            | Bags | 70       | \$15.00    | \$1,050.00         |
| 3.1          | Bentonite Powder                           | Bags | 3        | \$30.00    | \$90.00            |
| 3.1          | Decontamination with Steam Cleaner         | Day  | 4        | \$250.00   | \$1,000.00         |
| 3.1          | Fuel Surcharge                             | Day  | 4        | \$50.00    | \$200.00           |
| 3.1          | Pore Pressure Dissipation Tests            | Each | 110      | \$0.00     | \$0.00             |
| <b>TOTAL</b> |  |      |          |            | <b>\$34,020.00</b> |



**AECOM Anaheim Geotechnical Laboratory  
2023 Unit Test Rates**

1515 S. Sunkist Street, Suite J, Anaheim, CA 92806

| Test Number | Test Symbol | <b><u>IDENTIFICATION, CLASSIFICATION AND<br/>CHEMICAL TESTS</u></b>   | Reference Test                | ANA Unit     |
|-------------|-------------|---|-------------------------------|--------------|
|             |             |   | <u>Procedure</u>              | <u>Price</u> |
| 102         | VC          | <b><u>Soil Description and Classification</u></b><br>(no charge for ASTM D2487 classification with associated tests)                  | ASTM D2488                    | \$22         |
| 103         | WC          | <b><u>Water Content</u></b>   | ASTM D2216                    | \$23         |
| 104         | UW          | <b><u>Total Unit Weight with Water Content</u></b>  | ASTM D7263                    | \$41         |
| 105         | OM          | <b><u>Organic Content of Soil</u></b>   | ASTM D2974                    | \$114        |
| 106         |             | <b><u>Atterberg Limits</u></b>  |                               |              |
| 110         | PI          | Liquid and Plastic Limit - multi-point test   | ASTM D4318                    | \$181        |
| 111         |             | Liquid Limit, blenderized multi-point test  | EM 1110-2-1906                | \$267        |
| 112         |             | Liquid Limit, multi-point test  | ASTM D4318                    | \$195        |
| 113         |             | Liquid Limit, single point test   | ASTM D4318                    | \$131        |
| 114         |             | Plastic Limit, 2 points   | ASTM D4318                    | \$68         |
|             |             | <b><u>Particle Size Tests</u></b>   |                               |              |
| 120         |             | Sample Processing (hourly)  | ASTM D421                     | \$113        |
| 121         | SA          | Sieve Analysis; Std. sieve set, with wet wash   | ASTM D6913                    | \$171        |
| 122         | MA          | Combined Sieve and Hydrometer Analysis  | ASTM D7928 with<br>ASTM D6913 | \$255        |
| 130         | HYDR        | Hydrometer Analysis only  | ASTM D7928                    | \$239        |
| 131         | DBH         | Double Hydrometer Analysis  | ASTM D4221                    | \$272        |
| 140         | WA          | Percent Fines (minus No. 200 sieve only)  | ASTM D1140                    | \$108        |
|             |             | <b><u>Specific Gravity</u></b>  |                               |              |
| 141         | Gs          | Specific Gravity of minus No. 4 sieve material  | ASTM D854                     | \$162        |
| 142         | BGs         | Bulk Specific Gravity (Chunk Density)   | ASTM C127                     | \$162        |
| 150         | MP4         | <b><u>Modified Impact Compaction Test (Method A &amp; B)</u></b>  | ASTM D1557                    | \$272        |
| 151         | MP6         | <b><u>Modified Impact Compaction Test (Method C)</u></b>  | ASTM D1557                    | \$318        |
| 152         | MP1         | <b><u>One-point Modified impact compaction</u></b>  | ASTM D1557                    | \$176        |
| 160         | SP4         | <b><u>Standard Impact Compaction Test (Method A &amp; B)</u></b>  | ASTM D698                     | \$216        |
| 161         | SP6         | <b><u>Standard Impact Compaction Test (Method C)</u></b>  | ASTM D698                     | \$239        |
| 162         | SP1         | <b><u>One-point Standard impact compaction</u></b>  | ASTM D698                     | \$141        |
| 170         | R           | <b><u>R-Value</u></b>   | ASTM D2844                    | \$408        |
| 180         | Corr        | <b><u>Corrosivity Suite</u></b>   |                               | \$295        |
| 181         | pH          | pH on soil specimen   | ASTM D4972                    | \$81         |
| 182         | SO          | Sulfate on soil specimen for corrosion  | CTM417                        | \$81         |
| 183         | CL          | Chloride Content on soil specimen for corrosion   | CTM422                        | \$81         |
| 184         | Res         | pH and Resistivity of Soil  | CTM643                        | \$140        |
| 190         | PIN         | <b><u>Pinhole</u></b>   | ASTM D4647                    | \$329        |
| 191         | CRU         | <b><u>Dispersive Characteristics by Crumb Test</u></b>  | ASTM D6572                    | \$68         |
|             |             | <b><u>ROCK and AGGREGATE TESTING</u></b>  |                               |              |
| 200         | UC r        | <b><u>Unconfined Compressive Strength (rock)</u></b><br>oven dry or as-prepared specimen with strain by platen to platen measurements | ASTM D7012                    | \$340        |
| 210         | RH          | <b><u>Rebound Hardness (using "Schmidt" hammer)</u></b>   | ASTM D5873                    | \$55         |
| 220         | PtL         | <b><u>Point Load Strength</u></b>   | ASTM D5731                    | \$69         |
| 230         | SD          | <b><u>Slake Durability (up to 2 cycles)</u></b>   | ASTM D4644                    | \$82         |
| 231         |             | each additional cycle   |                               | \$68         |
| 232         | SE          | <b><u>Sand Equivalent</u></b>   | ASTM D2419                    | \$118        |

**AECOM Anaheim Geotechnical Laboratory  
2023 Unit Test Rates**

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| Test<br>Number  | Test<br>Symbol | <b><u>ENGINEERING PROPERTY TESTS</u></b>  | Reference<br>Test | Procedure |
|---|----------------|---|-------------------|-----------|
| <b><u>PERMEABILITY (HYDRAULIC CONDUCTIVITY) TESTING</u></b>   |                |   |                   |           |
| 300   | HC             | <b><u>Standard Triaxial Permeability (Hydraulic Conductivity)</u></b><br>(standard sample type using flexible-wall permeameter and de-ionize water with permeability between 1x10-5 cm/sec and 1x10-8 cm/sec on standard specimen and test pressures) | ASTM D5084        | \$386     |
| 301   | Hci            | Incremental Stage (per point)   |                   | \$164     |
| <b><u>CONSOLIDATION and EXPANSION TESTING</u></b>   |                |   |                   |           |
| includes graphical presentation with end of primary, cv data calculated   |                |   |                   |           |
| 310   | CON            | <b><u>Incremental Consolidation</u></b> (up to 10 loads)  | ASTM D2435        | \$560     |
| 311   |                | additional load increments  |                   | \$68      |
| 312   |                | rebound-reload loop, per load   |                   | \$68      |
| <b><u>Swell Pressure or collapse at one stress level<br/>(other stress levels charged per load increment)</u></b>     |                |   |                   |           |
|   |                |   | ASTM D4546        |           |
| 321   | SWa            | Method A - <i>4-point curve, wetted-after-loading</i>   | ASTM D4546        | \$686     |
| 322   | SWb            | Method B - <i>single point, wetted-after-loading (rebound-reload upon request)</i>  | ASTM D4546        | \$340     |
| 323   | SWc            | Method C - <i>loaded-after-wetting</i> , (referenced with ASMT D2435)   | ASTM D4546        | \$411     |
| 324   | Swi            | Additional Load increment (up to 16 tsf and 24 hrs )  | ASTM D4546        | \$68      |
| 325   | EI             | <b><u>Expansion Index</u></b>   | ASTM D4829        | \$171     |
| <b><u>STATIC STRENGTH TESTING</u></b>   |                |   |                   |           |
| Note: Test data includes water content, total unit weight and graphical presentation of data unless otherwise stated. |                |   |                   |           |
| <b><u>DIRECT SHEAR TESTS</u></b>  |                |   |                   |           |
| 330   | DS             | <b><u>Direct Shear Series - CD, 3 specimens</u></b>   | ASTM D3080        | \$313     |
| <b><u>TORSIONAL RING SHEAR TESTS</u></b>  |                |   |                   |           |
| 340   | RS r           | Ring Shear - 3 point residual stress  | ASTM D6467        | \$662     |
| 341   | RS fs          | Ring Shear - Fully Softened Condition, peak stress  | ASTM D7608        | \$378     |
| <b><u>STANDARD TRIAXIAL TESTS</u></b>   |                |   |                   |           |
| Note: Basic prices are for a single point shear phase on standard tube sample specimens.                              |                |   |                   |           |
| 350   | UC s           | <b><u>UC - Unconfined Compression</u></b>   | ASTM D2166        | \$140     |
| 360   | UU             | <b><u>UU - Unconsolidated-Undrained Triaxial</u></b>  | ASTM D2850        | \$173     |
| 370   | ICU            | <b><u>CIU' - Consolidated-Isotropically Undrained Triaxial</u></b><br>with backpressure and pore water pressure measurements on saturated specimen  | ASTM D4767        | \$465     |
| 380   | ICD            | <b><u>CD - Consolidated-Drained Triaxial</u></b><br>with volume measurements on saturated specimen  | USBR 5755         | \$735     |
| 400   | Tse            | <b><u>Tube Sample Extrusion</u></b><br>Note: Tube extrusion charge applied for sample extrusion without engineering tests.  |                   | \$68      |
| 410   | Rmld           | <b><u>Specimen fabrication (remolding)</u></b>  |                   | \$76      |
| 420   | trim           | <b><u>Specimen trimming</u></b>   |                   | \$76      |

AECOM Anaheim Geotechnical Laboratory  
2023 Unit Test Rates

1515 S. Sunkist Street, Suite J, Anaheim, CA 92806

A

**SAMPLING MATERIALS AND FIELD EQUIPMENT**

**FIELD EQUIPMENT**

|     |  |       |
|-----|--|-------|
| 510 | <u>Sand Cone Kit (per day)</u>             | \$49  |
| 511 | <u>Nuclear Density Gauge (per day)</u>     | \$82  |
| 512 | <u>Trimble GPS Unit (per hour)</u>         | \$22  |
| 520 | <u>Double-Ring Infiltrometer (per day)</u> | \$241 |
| 530 | <u>Point Load Test Aparatus (per day)</u>  | \$69  |

**SAMPLING SUPPLIES**

|     |  |         |
|-----|--|---------|
| 540 | <u>6-inch SS Liners (2.5" dia. X 6" long)</u><br>includes liner with end caps  | \$10.80 |
| 541 | <u>6-inch Brass Liners (2.5" dia x 6" long)</u><br>includes liner with end caps  | \$12.96 |
| 542 | <u>Shelby Tubes (3" dia. X 30" length)</u><br>includes Shelby tube, end caps, o-ring seal<br>Note: prices will vary for different Shelby tube diameters and/or lengths | \$37.80 |
| 543 | <u>Bucket with Lid</u>   | \$9.72  |
| 544 | <u>Sample Bags</u>   | \$0.37  |

## Assumptions

- This proposal is strictly geotechnical and assumes that contaminated soil or groundwater will not be encountered at the site. If the soil or groundwater appears to be contaminated, we will stop work and review the situation with IRWD and make any adjustments to the scope of work and the agreement for services that may be required.
- AECOM will not be liable for injury, or direct or consequential damages related to damage to utilities or subterranean structures (pipes, culverts, vaults, underground tanks, tunnels, etc.) that are not correctly and clearly shown on plans provided to us or otherwise located in the field prior to our investigation, or marked by Underground Service Alert of Southern California. AECOM will review any utility plans that are furnished by IRWD or others but has not budgeted to search for or reproduce such plans.
- It may become necessary to change a subcontractor named herein or add a subcontractor. If this is necessary, we will ask for IRWD's approval of our selection.
- The laboratory test table in the GIWP specifies USCS Classification per ASTM D2487. Because the USCS Classification is assigned to soil for which Atterberg Limits and particle-size distribution tests are performed, we include the provision of the USCS Classification as part of the tests themselves. Thus, we indicate that the cost for the USCS Classification column is zero.
- Project delays may affect our costs. If these delays are not within our control, an adjustment to the project fees will be made. Examples of delays not within our control include IRWD-initiated changes to the schedule, increases to the Scope of Services



February 15, 2023

Mr. Jacob Moeder  
Engineering Manager – Dams & Storage  
Irvine Ranch Water District  
15600 Sand Canyon Avenue  
Irvine, California 92618

**Subject: Rattlesnake Dam Issue Evaluation Study and Alternatives Analysis Proposal**

Dear Mr. Moeder,

### **Introduction and Understanding**

The recently completed Implementation Plan for the IRWD Dam portfolio identified dam safety actions and recommendations to reduce uncertainties and risks associated with Rattlesnake Dam. Recommended actions related to first tier potential failure modes (PFMs) include the completion of an Issue Evaluation Study (IES), which addresses the following recommended actions:

- Rattlesnake Canyon RC 3: *Perform a seismic response analysis of the embankment. Consider all available information and the need for additional site characterization to define the extent, continuity, and properties of liquefiable materials.*
- Rattlesnake Canyon RC 4: *Perform a study to understand the full history of seepage; including piezometers and drains; confirm the as constructed zoning and gradations. Consider all available information and consider if additional field data should be collected.*

HDR has recently completed an interim risk reduction measure (IRRM) seismic evaluation study as part of recommended action RC 1: *Consider IRRMs to reduce the risk to the downstream population at risk on an interim basis until permanent risk reduction can be accomplished.* That study confirmed IRWD's decision to target a maximum reservoir pool to Elevation 395 feet and discourage storing water above the targeted maximum water level. That study also generally outlined the recommended work elements for the Rattlesnake IES including needed site characterization activities to reduce uncertainties associated with liquefaction potential; undrained shear strength of embankment and undrained liquefied strength of foundation soils; and seepage conditions in the dam, foundation, and abutments.

The Implementation Plan also recommended action RC 2: *Perform a site specific probabilistic seismic hazard analysis and develop appropriate suite of ground motion time histories for seismic analysis.* Because of its proximity, the recently completed site specific Seismic Hazard Assessment for the Syphon Reservoir Improvement Project (AECOM, 2020) will be used for this IES. The Syphon Dam site is approximately 2 miles to the south of Rattlesnake dam and reservoir. The seismic loading conditions and time histories included in that study are considered appropriate for this planning-level IES. Should final designs be developed in the future for Rattlesnake Dam, a site-specific Seismic Hazard Assessment should be considered.

This proposal is for completion of the IES that will address recommended actions RC-3 and RC-4. Included in this scope of work is the following:

- (1) Support to be provided by HDR during the planned site characterization program (borings, cone testing, geophysical testing, test pit excavation, and laboratory testing) intended to provide data on the dam embankment and foundation materials required to complete analyses and evaluations under the IES,
- (2) Development of a Geologic/Geotechnical Model of the dam site including the embankment, foundation soils and bedrock. The model will include the internal seepage provisions (filters, drains, drainpipes, etc.) based on both investigation and lab testing results as well as information from the record drawings,
- (3) Assessment of seepage properties of the embankment and foundation materials along with seepage model development, calibration, and analyses to characterize seepage conditions in the dam, foundation, and abutments. Using these results, assess the overall seepage safety of the dam.
- (4) Analyses of the site characterization and laboratory testing information to estimate the shear strength and other engineering properties of the embankment and foundation soils including (a) density and associated liquefaction potential of the foundation colluvium/alluvium materials, (b) the shear strength and strain softening properties of the embankment materials, (c) the potential for liquefaction triggering, and (d) post-earthquake stability analyses and evaluations.
- (5) Revisit the baseline risk estimates for critical Rattlesnake Dam PFMs considering the site characterization results and corresponding updated seepage and stability analyses.
- (6) Prepare a summary IES report describing site characterization results, seepage and stability analyses, and updated baseline risks.
- (7) Assume that both seepage and seismic stability risk reduction modifications to Rattlesnake Dam are required and develop measures that will address the identified PFMs. Combine the measures into comprehensive alternatives, prepare screening level cost estimates and conduct an alternatives analysis.
- (8) Prepare an Alternatives Analysis Report describing measures and alternatives for risk reduction, alternatives risk analyses, alternatives evaluation and recommendations for risk reduction that should be completed at the site.

The GIWP requests that CPT and SPT borings along with surface geophysical testing be performed early in the scope of work and draft results provided to HDR for early assessment of the potential to complete a test pit at the site. HDR will provide additional guidance on the requirements for the test pit including dewatering, insitu density testing, disturbed and undisturbed sampling, and laboratory testing that would be completed as part of the test pit program. This assessment information would be provided to IRWD, and ultimately to DSOD for approval of the test pit program.

With the assumption that significant seepage and stability risks exceeding the IRWD's dam safety guidelines will be confirmed, HDR will identify a range of potential corrective actions that would reduce the risk of the critical potential failure modes to acceptable levels. Conceptual layouts will then be developed. Once a range of potential corrective actions are identified, the potential risk reduction associated with each of the corrective action alternatives will be estimated to support selection of a preferred approach and preliminary configuration that could be carried into final design if necessary.

### **Scope of Services**

The uncertainties associated with the Rattlesnake dam critical PFM 122 (seismic instability) makes scoping of required seismic response analyses and evaluations difficult until site characterization and laboratory testing work using modern investigation and testing procedures is complete and the initial (IRRM level) liquefaction potential assessment including any undrained liquefied strength estimates, and post-earthquake stability analyses are updated. To address these uncertainties in the most efficient way possible, the IES for Rattlesnake dam will be performed in a stepwise fashion. Under a previous scope of work, a geotechnical investigation work plan (GIWP) has been prepared by HDR to obtain site characterization data necessary for the seismic and seepage IES. We understand that IRWD will contract with a separate consultant to execute the site characterization program.

We propose to complete the IES and an Alternatives Analysis under eight major tasks outlined below.

## **TASK 1 | PROJECT MANAGEMENT AND MEETINGS**

### **1.1 PROJECT MANAGEMENT**

Activities include management of a Project Management and Quality Control Plan, staff coordination, schedule and budget monitoring, coordination of internal quality assurance reviews, and submission of monthly progress reports and invoices for our work.

For purposes of estimating the level of effort and direct costs associated with project management, we have assumed that the duration of the IES Phase 2 work will be up to 18 months. A total of up to 18 progress reports are included under this task. To facilitate communications with IRWD's PM, monthly meetings will be held to discuss project status and upcoming activities. Up to 18 calls will be held.

### **1.2 PROJECT MEETINGS**

Progress meetings at key milestones in the project will be held with IRWD. HDR's PM and up to three other staff will attend meetings to discuss the following:

1. Exploration Results
2. Engineering Evaluation and Preliminary Results
3. IES Results and Check Point Meeting
4. Evaluation Criteria, Risk Reduction Measure Development and Engineering Analyses Results

5. Alternatives Analysis Results and Selection of Preferred Alternative
6. Presentation to California Division of Safety of Dams (DSOD) on IES and Alternatives Analysis

#### DELIVERABLES

- Monthly Progress Reports
- Project Meeting Presentations
- Project Meeting Notes

#### ASSUMPTIONS

- Project meetings 1, 2, and 4 with IRWD will be virtual and last 2 hours. No travel is required.
- Project meetings 3 and 5 will be 4-hour meetings held at IRWD's office.
- Project meeting 6 will be a 2-hour meeting held at DSOD's Sacramento office.
- Reports in this study will be submitted in electronic (pdf) form only.

## **TASK 2 | SITE CHARACTERIZATION SUPPORT**

### 2.1 SITE CHARACTERIZATION SUPPORT

As noted above, the site characterization program will be conducted by others in accordance with the GIWP. All activities including field investigations (including borings, cone penetration tests, seismic refraction lines, downhole testing, and piezometer installation), permitting, site clearing, and restoration will be the responsibility of a separate consultant that is under contract with IRWD. HDR will work with the site investigation consultant and IRWD to confirm the approach to completing the test pit and will evaluate the test pit and associated laboratory testing results. HDR will conduct up to three (3) periodic site visits during the field investigation program to observe those activities and provide recommendations to IRWD on any adjustments to the field program if necessary.

Laboratory testing will be conducted by IRWD's field investigation consultant on embankment and foundation soil, and bedrock samples collected from the borings. Testing will include index properties (gradation, moisture content, unit weight, specific gravity, and Atterberg Limits), and other more advanced testing such as consolidation, shear strength (unconfined compression, direct simple shear, both consolidated-drained (CD) and consolidated-undrained (CU – with pore pressure measurement triaxial testing), and permeability. HDR will review draft boring logs and CPT results and provide recommendations for any adjustments to the laboratory testing program presented in the GIWP if deemed necessary. HDR will participate in up to 3 one-hour meetings with the investigation consultant regarding the setup, completion and evaluation of laboratory testing results. The field investigation consultant should not implement laboratory testing without input from HDR.

HDR will review the field investigation consultant's Geotechnical Data Report (GDR) and provide written comments to IRWD. Those comments should be addressed before the GDR is finalized.

#### DELIVERABLES

- Site visit reports including recommendations for adjustments in the field investigation approach (if necessary)



- Recommendations for the laboratory testing program
- Review comments on the draft GDR

#### ASSUMPTIONS

- Three separate one-day visits will be conducted to observe field investigation activities.
- IRWD will complete coordination with DSOD to achieve approval of the GIWP and to coordinate DSOD site visits during field investigations.
- The field investigation consultant will have at least one qualified person to observe each drill rig operation as required to meet standard of practice and DSOD requirements.

### **TASK 3 | GEOLOGIC AND ENGINEERING EVALUATIONS**

#### 3.1 SITE GEOLOGIC/GEOTECHNICAL MODEL

Using the site data gathered in Tasks 2, HDR will develop a preliminary 3-dimensional (3D) geologic/geotechnical model of the dam site. A key element of the model will be the extents of embankment materials (including the internal drainage systems and the “strip and flip” zone), the foundation alluvium/colluvium, and the top of bedrock contact. The model will be used to confirm the appropriate method for modeling embankment seepage and stability.

#### 3.2 ENGINEERING PROPERTIES

Using the site characterization and laboratory test data gathered in Task 2, HDR will update our previous estimates of the engineering properties of the embankment dam, foundation alluvium, and bedrock materials for use in the seepage, liquefaction potential and triggering, and static and post-earthquake stability analyses. Included will be the potential for strength reduction of the embankment material during seismic shaking and estimates of the post-liquefaction undrained strengths of the foundation alluvial materials using the residual strength correlation methods proposed by Weber (2015).

#### 3.3 SEEPAGE ANALYSES

HDR will develop a seepage evaluation model for the dam embankment and foundation to understand seepage conditions in the embankment, foundation soils and abutment/foundation bedrock under both current (restricted) and maximum reservoir storage conditions. The seepage model will include internal drainage features and will be calibrated to the historic piezometric data. Once calibrated, seepage analyses under a range of reservoir storage conditions will be used to inform the seepage safety evaluation as well as the static and post-earthquake stability evaluations.

Seepage models (2D) will be developed for 1) the maximum section of the dam, and 2) for a second section closer to the right abutment (where elevated historic seepage conditions have been reported). The GeoStudio program SEEP/W will be used. For this seepage evaluation, existing as well as new material properties will be considered to estimate the range of permeabilities of the embankment and foundation soil material and the hydraulic conductivities of the foundation bedrock. The model will be calibrated to the observed water levels in instrumentation near the maximum section and right abutment areas of the dam.

Various reservoir pool levels will be evaluated, including maximum pool and normal operating pool levels. Seepage model results will include 1) the phreatic surface through the dam, 2) expected seepage pressures, gradients, and flow directions within embankment, exiting into embankment drains, and in the foundation, and 3) seepage flux (flow) through the 2D cross-sections. The results of the seepage analyses will be used as the baseline conditions in subsequent static and post-earthquake stability analyses described below. The results will also be used to complete the seepage component of the IES, and complete recommended actions related to RC-4.

### 3.4 PRELIMINARY LIQUEFACTION POTENTIAL AND SLOPE STABILITY ANALYSES

The results of site characterization work (CPT, SPT and surface geophysical surveys) will be used to complete an updated assessment of the engineering properties of the embankment and foundation soils, liquefaction potential in the foundation alluvium, and a liquefaction triggering analysis of the foundation alluvial materials. Simplified methods will be used for this initial liquefaction potential and triggering analyses. In addition, using the results of both field and laboratory tests, a complete shear strength model of the embankment and foundation soils will be assessed, and appropriate shear strength assumptions will be developed for static and post-earthquake stability analyses.

HDR will update the previously developed stability model along the maximum section of the dam based on the site characterization results, and complete updated static and post-earthquake stability analyses. The GeoStudios program SLOPE/W will be used to model the stability of the dam embankment and foundation.

#### DELIVERABLES

- None.

#### ASSUMPTIONS

- Slope stability considerations will be controlled by post-earthquake conditions considering the undrained (liquefied residual) strength. Should that post-earthquake condition not be the critical case, additional analyses of seismic deformations of existing conditions during the earthquake may be required. Those evaluations are not included in this scope of work.
- A seismic hazard assessment is not included in this task. The recently completed Seismic Hazard Assessment for the Syphon Reservoir Improvement Project (AECOM, 2020) will be used for this Seismic IES.

### **TASK 4 | REVISE BASELINE RISK ANALYSIS AND DETERMINE MITIGATION REQUIREMENT**

HDR will update the risk analysis for Rattlesnake Dam that was completed in 2021 considering the site characterization and laboratory testing data that will be completed as part of the GIWP along with the IES seepage and stability analyses (Task 3 and 4). HDR will conduct a one-day virtual workshop to establish new baseline semi-quantitative risk analyses (SQRA) for critical individual PFMs and total risk estimates for the dam. Critical PFMs will include both first tier and second tier PFMs that have previously been identified as well as any new PFMs that become apparent through the site characterization program.

HDR will also consider other investigations that have been completed at Rattlesnake Dam such as the recent left abutment stability evaluation and the condition survey of the outlet pipe that was completed in 2022. The 2022 outlet works pipe condition assessment found significant corrosion and loss of pipe section suggesting the pipe is near the end of its useful life and in need of replacement. These findings will be carefully reviewed and assessed, and a new PFM and risk analysis associated with the pipe condition will be conducted as appropriate.

HDR will also revisit the preliminary seismic stability analyses and consideration of restricted reservoir pool levels that were developed in 2021. HDR will identify if there is a risk basis to modify the current restricted pool level.

#### DELIVERABLES

- None.

#### ASSUMPTIONS

- Up to two new PFMs will be developed for the updated baseline risk analysis. One of those PFMs will be associated with the condition assessment of the outlet pipe.
- Reporting on the revised baseline risk analysis will be included in the IES Summary Report (Task 5)

### **TASK 5 | IES SUMMARY REPORT PREPARATION**

An IES Summary Report will be prepared that summarizes the key findings of Tasks 2, 3 and 4. The results of the site characterization, laboratory testing, and engineering analyses will be described. The updated baseline risk analysis will be presented, along with the determination of whether risk reduction measures are required.

A draft IES Summary Report will be submitted for IRWD review. A check point meeting will then be held with IRWD to review the results of the IES, including the updated baseline risk analysis and other identified issues. A half day in-person meeting will be held to review the IES results and discuss the approach for an alternatives analysis (if needed). If scope adjustments are needed, they will be made after the check point meeting. The IES Summary Report will then be revised to address all comments and finalized.

For scoping purposes for the alternatives analysis (Task 6 to 8 below), we have assumed the conditions listed below will be found at Rattlesnake Dam after considering the results of the site characterization and IES, including the updated baseline risk analysis:

- Liquefaction and post-earthquake instability are indeed an issue, so risk reduction actions are required.
- Seepage analyses and the seepage safety evaluation will demonstrate that embankment seepage provisions in the dam/foundation are inadequate and require modifications to reduce seepage failure mode risks.
- The outlet pipe requires replacement.
- Spillway chute erosion is an issue, and risk reduction actions are required.

#### DELIVERABLES

- Issue Evaluation Study Summary Report (Draft and Final)
- Presentation to IRWD for Check Point meeting on IES including the updated baseline risk analysis

#### ASSUMPTIONS

- A 4-hour Check Point meeting will be held at IRWD's office to review the updated baseline risk analysis and the items that will be addressed in an alternatives analysis. Attendance and travel to the meeting is covered under Task 1.2- Project Meetings.

### **TASK 6 | DEVELOP EVALUATION CRITERIA, MITIGATION MEASURES AND ENGINEERING ANALYSES**

#### 6.1 DEVELOP EVALUATION CRITERIA

Under this task, HDR will develop the criteria that will be used to evaluate alternatives that will be developed as part of Task 7. The criteria may include items such as technical considerations, construction costs, risk reduction, operational considerations, regulatory acceptance and permitting factors. The proposed evaluation criteria and approach will be presented to IRWD for review and input.

#### 6.2 DEVELOP MITIGATION MEASURES

HDR will also identify, develop and evaluate dam safety risk reduction measures that could be implemented to reduce the risk of identified PFMs. For the dam, such measures could include installation of filters and drains within the embankment and foundation, removal and replacement of select portions of the embankment and foundation materials, in situ foundation strength improvement, and dam buttressing.

For the spillway, removal and replacement of the existing spillway liner with a modern chute and energy dissipation structure meeting current best practices would be considered. Alternative stilling basins for the spillway will be identified and described and a preferred type of stilling basin will be incorporated into the overall spillway rehabilitation concept.

For the outlet works, measures including lining of the existing outlet pipe or replacement of the existing pipe will be evaluated.

Overall, the rehabilitation measures will be evaluated to confirm they adequately address slope instability, seepage, and spillway and outlet works potential failure mode risks. The list of potential measures will be evaluated and screened to determine which will be carried forward. The measures will include potential removal of the dam and ecological restoration of the reservoir pool.

#### 6.3 CONDUCT ENGINEERING ANALYSES

To support the evaluation of alternative mitigation measures, HDR will perform engineering analyses and evaluate mitigated conditions. Such analyses and evaluations will include concept-level seepage, slope stability, simplified seismic response deformation and internal erosion analyses for the dam. Conceptual level hydraulic and structural analyses of the alternative spillway

and outlet work mitigation measures will be performed. The intent will be to develop the configuration of individual measures that will address associated PFM risks, meet deterministic design criteria and help reduce risk to tolerable levels consistent with IRWD's risk tolerance guidelines.

#### DELIVERABLES

- Presentation for meeting with IRWD on evaluation criteria, measure development and engineering analyses.

#### ASSUMPTIONS

- IRWD will provide the condition assessments for the existing outlet pipe, which will form the basis for the need for mitigation measures.
- Reporting on criteria, measure development and engineering analyses will be included in the Alternatives Analyses Report (Task 8)

### **TASK 7 | CONDUCT AN ALTERNATIVES ANALYSIS**

#### 7.1 DEVELOP COMPREHENSIVE ALTERNATIVES

HDR will take the dam safety risk reduction mitigation measures developed under Task 6 and combine them into comprehensive risk reduction alternatives. Each PFM considered related to seepage, seismic performance, spillway performance, etc. may have multiple measures that can be considered to reduce risk. Through the alternatives analysis process, the multiple measures will be narrowed and combined into three comprehensive mitigation alternatives, each with its own combination of risk reduction and associated costs. In addition, HDR will also consider a "do nothing" alternative that may include continuing to operate under a restricted reservoir pool, along with an alternative that involves removal of the embankment dam and restoration of the reservoir and dam footprint areas. In total, five alternatives will then be considered in the analysis.

#### 7.2 CONCEPTUAL LAYOUTS AND COST ESTIMATES

HDR will develop combined conceptual level layouts of each alternative. The layouts will be in detail sufficient to estimate the risk reduction associate with each alternative and to prepare a screening level cost estimate. HDR will develop quantities and construction cost estimates (ACEC Level 4 to 5) for each alternative, to be used for alternative evaluation.

#### 7.3 ESTIMATE RISK REDUCTION AND RANK ALTERNATIVES

HDR will then estimate the risk of the key potential failure modes for each alternative. Developing the individual PFM and total risk estimates for each alternative and comparing those estimates with the baseline risk estimates for the existing dam, spillway and outlet work will identify the level of risk reduction that can be achieved by each alternative. HDR's risk team will develop screening level risk estimates for each alternative at a one day virtual workshop. During the workshop, the risk estimating team will review the PFMs and estimate the individual and total risk for each alternative. Once the risk estimates are completed, the total risk will be compared to the baseline risk estimate for the existing dam and identify the level of risk reduction provided by each alternative for all critical PFMs.

HDR will then complete an analysis of the five alternatives by completing a qualitative ranking of each alternative using the evaluation criteria established under Task 6 for IRWD to consider.

#### DELIVERABLES

- None.

#### ASSUMPTIONS

- Reporting on the alternatives analyses process and findings will be included in the Alternatives Analyses Report (Task 8)
- Five alternatives will be developed, including three dam safety mitigation alternatives, one “do nothing” alternative and one dam removal alternative.
- HDR’s analysis of the dam removal alternative will not include an assessment of impacts to IRWD’s recycled water operations and costs.
- IRWD will provide high level assessment of each alternative’s environmental assessment and permitting requirements for consideration in the alternatives analysis.
- A full day, virtual workshop will be required to estimate risk reduction associated with each alternative for all PFMs. IRWD will participate in the workshop.

### **TASK 8 | ALTERNATIVES ANALYSIS REPORT PREPARATION AND WORKSHOPS**

#### 8.1 DEVELOP ALTERNATIVES ANALYSIS REPORT

HDR will prepare a draft Alternatives Analysis Report that documents the evaluations and findings of Tasks 6 and 7. The report will describe evaluation criteria, measure development, engineering analyses, alternatives including concept layouts, risk reduction estimation, cost estimates and the alternative evaluation including qualitative rankings. This draft report will not include the selection of a preferred alternative.

#### 8.2 ALTERNATIVES ANALYSIS REVIEWS AND WORKSHOPS

HDR will hold a half day meeting with IRWD to review the alternatives analysis findings and initial ranking. HDR and IRWD will then work to identify a preferred alternative for risk reduction measures at Rattlesnake Dam. The Alternatives Analysis report will then be finalized, including resolutions of all IRWD comments on the draft report and a description of the preferred alternative.

A briefing will then be held with DSOD to review the findings of the IES and the Alternatives Analysis. A two-hour meeting will be held at DSOD’s offices in Sacramento, including a presentation of findings and a discussion. IRWD will then transmit the final IES and Alternatives Analysis reports to DSOD for review.

#### DELIVERABLES

- Alternatives Analysis Report (draft and final)
- Presentation to IRWD on findings of Alternatives Analysis
- Presentation to DSOD on findings of IES and Alternatives Analysis

#### ASSUMPTIONS

- A half day, in person meeting will be held at IRWD's office to review the Alternatives Analysis and select a preferred alternative.
- A two-hour, in person meeting will be held at DSOD's office in Sacramento to review the IES and Alternatives Analysis.
- Preparation for the IRWD and DSOD review meetings are included in this subtask. Meeting attendance is covered under Task 1.2 – Project Meetings.

#### Proposed Budget

The proposed budget for this scope of work is summarized by task below. Attached is a detailed budget estimate for each task including personnel, estimated hours and direct costs.

|        |   |            |
|--------|---|------------|
| Task 1 | PROJECT MANAGEMENT  | \$ 89,885  |
| Task 2 | SITE CHARACTERIZATION SUPPORT   | \$ 52,449  |
| Task 3 | GEOLOGIC AND ENGINEERING EVALUATIONS                                      | \$ 115,518 |
| Task 4 | REVISE BASELINE RISK ANALYSIS AND DETERMINE MITIGATION REQUIREMENT        | \$ 42,644  |
| Task 5 | IES SUMMARY REPORT PREPARATION  | \$ 56,875  |
| Task 6 | DEVELOP EVALUATION CRITERIA, MITIGATION MEASURES AND ENGINEERING ANALYSES | \$ 87,134  |
| Task 7 | CONDUCT AN ALTERNATIVES ANALYSIS  | \$ 105,242 |
| Task 8 | ALTERNATIVES ANALYSIS REPORT PREPARATION                                  | \$ 75,118  |
|        | Total   | \$ 624,865 |

#### Proposed Schedule

We have assumed a notice to proceed date of April 3, 2023, and a duration of approximately 16 months. A preliminary project schedule is attached, and shows the work breakdown schedule, key project meetings and workshop, IRWD review periods and key deliverables. We anticipate that the field investigation and laboratory testing program will take approximately 4 months to complete. As shown, the start of the IES and Alternatives Evaluation (Task 3 to 8) are dependent on the site investigation consultant's completion of field investigations, laboratory testing and reporting.

#### Closure

Please let us know if you have any questions or desire further information. We are prepared to discuss and update the scope of work and level of effort necessary to meet the needs of IRWD going forward.

Mr. Jacob Moeder  
February 15, 2023

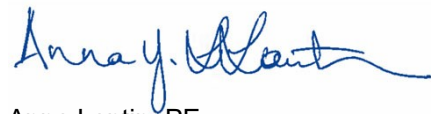
Please contact Andy Gong at (619) 674-4986 or at [andy.gong@hdrinc.com](mailto:andy.gong@hdrinc.com) if you have any questions or require additional information.

Sincerely,

**HDR Engineering, Inc.**

A handwritten signature in black ink, appearing to read "Andy Gong", written in a cursive style.

Andy Gong, PE, CFM  
Project Manager

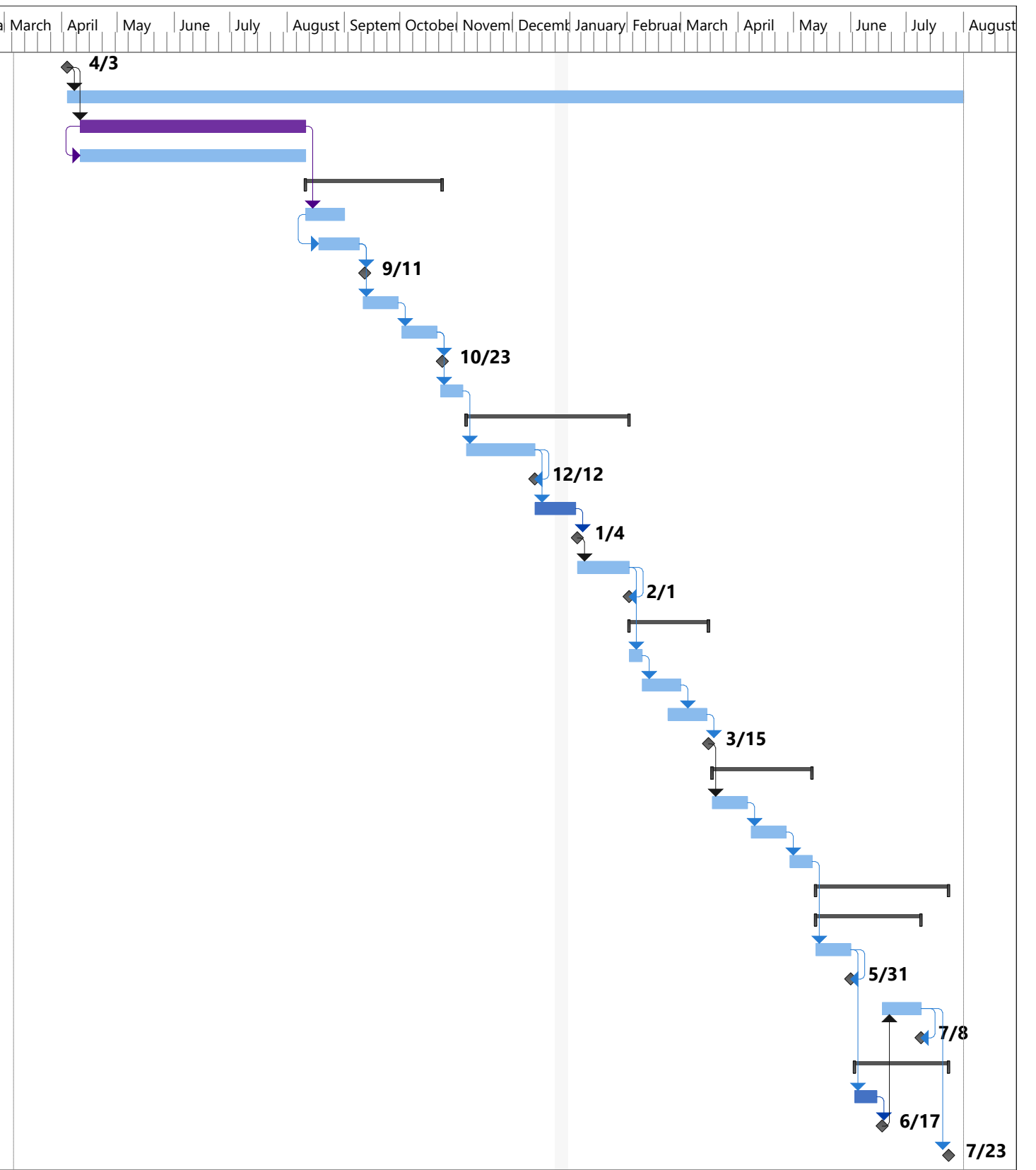
A handwritten signature in blue ink, appearing to read "Anna Lantin", written in a cursive style.

Anna Lantin, PE  
Vice President





| ID | Task Name  | Duration       | Start              | Finish              | Predecessors | March | April | May | June | July | August | Septem | October | Novem | Decem | January | Februa | March | April | May | June | July | August |  |
|----|--|----------------|--------------------|---------------------|--------------|-------|-------|-----|------|------|--------|--------|---------|-------|-------|---------|--------|-------|-------|-----|------|------|--------|--|
| 1  | Notice to Proceed  | 1 day          | Mon 4/3/23         | Mon 4/3/23          |              |       | 4/3   |     |      |      |        |        |         |       |       |         |        |       |       |     |      |      |        |  |
| 2  | 1.0 Project Management   | 335 days       | Tue 4/4/23         | Wed 7/31/24         | 1            |       |       |     |      |      |        |        |         |       |       |         |        |       |       |     |      |      |        |  |
| 3  | <i>Site Characterization, Lab Testing, Reporting (by others)</i> | 85 days        | Tue 4/11/23        | Thu 8/10/23         | 1FS+1 wk     |       |       |     |      |      |        |        |         |       |       |         |        |       |       |     |      |      |        |  |
| 4  | 2.0 Site Characterization Support                                | 85 days        | Tue 4/11/23        | Thu 8/10/23         | 3SS          |       |       |     |      |      |        |        |         |       |       |         |        |       |       |     |      |      |        |  |
| 5  | <b>3.0 Geologic and Engineering Analyses</b>                     | <b>51 days</b> | <b>Fri 8/11/23</b> | <b>Mon 10/23/23</b> |              |       |       |     |      |      |        |        |         |       |       |         |        |       |       |     |      |      |        |  |
| 6  | 3.1 Site Geologic/Geotechnical Model                             | 15 days        | Fri 8/11/23        | Thu 8/31/23         | 3            |       |       |     |      |      |        |        |         |       |       |         |        |       |       |     |      |      |        |  |
| 7  | 3.2 Engineering Properties                                       | 15 days        | Fri 8/18/23        | Fri 9/8/23          | 6SS+1 wk     |       |       |     |      |      |        |        |         |       |       |         |        |       |       |     |      |      |        |  |
| 8  | <i>Meeting on Exploration Results</i>                            | 1 day          | Mon 9/11/23        | Mon 9/11/23         | 7            |       |       |     |      |      |        |        |         |       |       |         |        |       |       |     |      |      |        |  |
| 9  | 3.3 Seepage Analyses   | 15 days        | Mon 9/11/23        | Fri 9/29/23         | 7            |       |       |     |      |      |        |        |         |       |       |         |        |       |       |     |      |      |        |  |
| 10 | 3.4 Liquefaction and Slope Stability                             | 15 days        | Mon 10/2/23        | Fri 10/20/23        | 9            |       |       |     |      |      |        |        |         |       |       |         |        |       |       |     |      |      |        |  |
| 11 | <i>Meeting on Engr Evaluation and Preliminary Results</i>        | 1 day          | Mon 10/23/23       | Mon 10/23/23        | 10           |       |       |     |      |      |        |        |         |       |       |         |        |       |       |     |      |      |        |  |
| 12 | 4.0 Revise Baseline Risk, Determine Mitigation Requirement       | 10 days        | Mon 10/23/23       | Fri 11/3/23         | 10           |       |       |     |      |      |        |        |         |       |       |         |        |       |       |     |      |      |        |  |
| 13 | <b>5.0 IES Summary Report Preparation</b>                        | <b>56 days</b> | <b>Mon 11/6/23</b> | <b>Thu 2/1/24</b>   |              |       |       |     |      |      |        |        |         |       |       |         |        |       |       |     |      |      |        |  |
| 14 | 5.1 Prepare Draft IES Report                                     | 25 days        | Mon 11/6/23        | Tue 12/12/23        | 12           |       |       |     |      |      |        |        |         |       |       |         |        |       |       |     |      |      |        |  |
| 15 | <i>Submit Draft IES Report</i>                                   | 0 days         | Tue 12/12/23       | Tue 12/12/23        | 14FF         |       |       |     |      |      |        |        |         |       |       |         |        |       |       |     |      |      |        |  |
| 16 | <i>5.2 IRWD Review</i>   | 10 days        | Wed 12/13/23       | Wed 1/3/24          | 14           |       |       |     |      |      |        |        |         |       |       |         |        |       |       |     |      |      |        |  |
| 17 | <i>Meeting on IES Results, Check Point meeting</i>               | 1 day          | Thu 1/4/24         | Thu 1/4/24          | 16           |       |       |     |      |      |        |        |         |       |       |         |        |       |       |     |      |      |        |  |
| 18 | 5.3 Prepare Final IES Report                                     | 20 days        | Fri 1/5/24         | Thu 2/1/24          | 17           |       |       |     |      |      |        |        |         |       |       |         |        |       |       |     |      |      |        |  |
| 19 | <i>Submit Final IES Report</i>                                   | 0 days         | Thu 2/1/24         | Thu 2/1/24          | 18FF         |       |       |     |      |      |        |        |         |       |       |         |        |       |       |     |      |      |        |  |
| 20 | <b>6.0 Develop Criteria, Mitigation Measures, Analyses</b>       | <b>31 days</b> | <b>Fri 2/2/24</b>  | <b>Fri 3/15/24</b>  |              |       |       |     |      |      |        |        |         |       |       |         |        |       |       |     |      |      |        |  |
| 21 | 6.1 Develop Evaluation Criteria                                  | 5 days         | Fri 2/2/24         | Thu 2/8/24          | 18           |       |       |     |      |      |        |        |         |       |       |         |        |       |       |     |      |      |        |  |
| 22 | 6.2 Develop Mitigation Measures                                  | 15 days        | Fri 2/9/24         | Thu 2/29/24         | 21           |       |       |     |      |      |        |        |         |       |       |         |        |       |       |     |      |      |        |  |
| 23 | 6.3 Conduct Engineering Analyses                                 | 15 days        | Fri 2/23/24        | Thu 3/14/24         | 22FS-1 wk    |       |       |     |      |      |        |        |         |       |       |         |        |       |       |     |      |      |        |  |
| 24 | <i>Meeting on Criteria, Measures and Analysis Results</i>        | 1 day          | Fri 3/15/24        | Fri 3/15/24         | 23           |       |       |     |      |      |        |        |         |       |       |         |        |       |       |     |      |      |        |  |
| 25 | <b>7.0 Conduct an Alternatives Analysis</b>                      | <b>40 days</b> | <b>Mon 3/18/24</b> | <b>Fri 5/10/24</b>  |              |       |       |     |      |      |        |        |         |       |       |         |        |       |       |     |      |      |        |  |
| 26 | 7.1 Develop Comprehensive Alternatives                           | 15 days        | Mon 3/18/24        | Fri 4/5/24          | 24           |       |       |     |      |      |        |        |         |       |       |         |        |       |       |     |      |      |        |  |
| 27 | 7.2 Conceptual Layouts and Cost Estimates                        | 15 days        | Mon 4/8/24         | Fri 4/26/24         | 26           |       |       |     |      |      |        |        |         |       |       |         |        |       |       |     |      |      |        |  |
| 28 | 7.3 Estimate Risk Reduction and Rank Alternatives                | 10 days        | Mon 4/29/24        | Fri 5/10/24         | 27           |       |       |     |      |      |        |        |         |       |       |         |        |       |       |     |      |      |        |  |
| 29 | <b>8.0 Alternatives Analysis Report and Workshops</b>            | <b>52 days</b> | <b>Mon 5/13/24</b> | <b>Tue 7/23/24</b>  |              |       |       |     |      |      |        |        |         |       |       |         |        |       |       |     |      |      |        |  |
| 30 | <b>8.1 Develop Draft Alternatives Analysis Report</b>            | <b>41 days</b> | <b>Mon 5/13/24</b> | <b>Mon 7/8/24</b>   |              |       |       |     |      |      |        |        |         |       |       |         |        |       |       |     |      |      |        |  |
| 31 | 8.1.1 Develop Draft AAR  | 15 days        | Mon 5/13/24        | Fri 5/31/24         | 28           |       |       |     |      |      |        |        |         |       |       |         |        |       |       |     |      |      |        |  |
| 32 | <i>Submit Draft AAR</i>  | 0 days         | Fri 5/31/24        | Fri 5/31/24         | 31FF         |       |       |     |      |      |        |        |         |       |       |         |        |       |       |     |      |      |        |  |
| 33 | 8.1.2 Finalize AAR   | 15 days        | Tue 6/18/24        | Mon 7/8/24          | 37           |       |       |     |      |      |        |        |         |       |       |         |        |       |       |     |      |      |        |  |
| 34 | <i>Submit Final AAR</i>  | 0 days         | Mon 7/8/24         | Mon 7/8/24          | 33FF         |       |       |     |      |      |        |        |         |       |       |         |        |       |       |     |      |      |        |  |
| 35 | <b>8.2 Alternatives Analysis Reviews and Workshops</b>           | <b>37 days</b> | <b>Mon 6/3/24</b>  | <b>Tue 7/23/24</b>  |              |       |       |     |      |      |        |        |         |       |       |         |        |       |       |     |      |      |        |  |
| 36 | <i>8.2.1 IRWD Review of Draft AAR</i>                            | 10 days        | Mon 6/3/24         | Fri 6/14/24         | 31           |       |       |     |      |      |        |        |         |       |       |         |        |       |       |     |      |      |        |  |
| 37 | <i>8.2.2 AAR Workshop</i>  | 1 day          | Mon 6/17/24        | Mon 6/17/24         | 36           |       |       |     |      |      |        |        |         |       |       |         |        |       |       |     |      |      |        |  |
| 38 | <i>8.2.3 DSOD Presentation on Findings</i>                       | 1 day          | Tue 7/23/24        | Tue 7/23/24         | 33FS+2 wks   |       |       |     |      |      |        |        |         |       |       |         |        |       |       |     |      |      |        |  |



|  |           |  |                    |  |                       |  |                    |  |                 |  |
|--|-----------|--|--------------------|--|-----------------------|--|--------------------|--|-----------------|--|
| Project: Rattlesnake - DRAFT IE<br>Date: Wed 2/15/23 | Task      |  | Project Summary    |  | Manual Task           |  | Start-only         |  | Deadline        |  |
|  | Split     |  | Inactive Task      |  | Duration-only         |  | Finish-only        |  | Progress        |  |
|  | Milestone |  | Inactive Milestone |  | Manual Summary Rollup |  | External Tasks     |  | Manual Progress |  |
|  | Summary   |  | Inactive Summary   |  | Manual Summary        |  | External Milestone |  |                 |  |

**From:** david hillman <giddyap@att.net>  
**Sent:** Monday, February 27, 2023 10:30 AM  
**To:** Eric Akiyoshi <AKIYOSHI@irwd.com>  
**Subject:** [EXTERNAL] Re: Amapola Alley Follow up

**Caution: This email originated from outside IRWD. Do not click links or open attachments unless you know the sender and were expecting the email.**

Eric Akiyoshi, P.E.  
Engineering Manager-Infrastructure Planning  
Irvine Ranch Water District

Dear Mr. Akiyoshi,

I received your letter dated February 6, 2023 and I am deeply disturbed by the inappropriate and illegal nature of your proposal. You propose to maintain the Irvine Ranch Water District's access along a road that is owned by the District, yet abandon all responsibility as owner of the road for maintaining the road itself. I find this inexplicable and indefensible.

I cite from my land deed:

*We the undersigned owners of the land covered by the accompanying maps and also all other persons whose consent is necessary to pass a clear title to such lands, do hereby consent to the making of said map and we hereby dedicate all lots designated by Letters for the lot owners of the subdivision, subject to the right hereby reserved to hereafter convey and dedicate said lot (as shown by letters) to the public use for Highway Purposes. [emphasis added.]*

This passage includes specific reference to the lot you seek to abandon (Lot B, Tract 931.)

I object to your proposal and will consider appropriate legal action should IRWD elect to proceed with this action.

Cordially,  
David Hillman