

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

April 26, 2021

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

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

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

Via Web: <https://irwd.webex.com/irwd/j.php?MTID=mc51610a04c5fdff65cfe8a7c74175508>
Meeting Number (Access Code): 146 495 0905
Meeting Password: JcHGMg7TN62

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

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

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

CALL TO ORDER 5:00 p.m.

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

PUBLIC COMMENT NOTICE

If you wish to address the Board of Directors on any item, please submit a request to speak via the "chat" feature available when joining the meeting virtually. Remarks are limited to three minutes per speaker on each subject. You may also submit a public comment in advance of the meeting by emailing comments@irwd.com before 12:00 p.m. on Monday, April 26, 2021.

ALL VOTES SHALL BE TAKEN BY A ROLL CALL VOTE.

COMMUNICATIONS TO THE BOARD

1. A. Written:

B. Oral:

2. ITEMS RECEIVED TOO LATE TO BE AGENDIZED

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

WORKSHOPS

3. ADOPTION OF OPERATING BUDGET AND NON-OPERATING BUDGET FOR FISCAL YEARS 2021-22 AND 2022-23

Reso. No. 2021-

Recommendation: That the Board adopt a resolution approving IRWD's Operating Budget for Fiscal Years 2021-22 and 2022-23.

4. CAPITAL BUDGET AND LONG-TERM CAPITAL PROGRAM FOR FISCAL YEARS 2021-22 AND 2022-23

Reso. No. 2021-

Recommendation: That the Board adopt a resolution approving IRWD's Capital Budget for Fiscal Years 2021-22 and 2022-23.

CONSENT CALENDAR (Items 5 through 13)

5. BOARD MEETING MINUTES

Recommendation: That the minutes of the April 12, 2021 Regular Board meeting be approved as presented.

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

Recommendation: That the Board ratify/approve the meetings and events for Steven LaMar, Karen McLaughlin, and John Withers, as described.

7. IRWD STRATEGIC MEASURES

Recommendation: Receive and file.

CONSENT CALENDAR – Continued (Items 5 through 13)

8. MARCH 2021 TREASURY REPORT

recommendation: That the Board receive and file the Treasurer's Investment Summary Report, the Summary of fixed and variable rate debt, and Disclosure Report of Reimbursements to Board members and staff, approve the March 2021 Summary of Payroll ACH payments in the total amount of \$2,116,670, and approve the March 2021 Accounts Payable Disbursement Summary of warrants 416091 through 416896, Workers' Compensation distributions, wire transfers, payroll withholding distributions and voided checks in the total amount of \$39,486,509.

9. LETTER OF CREDIT EXTENSION FOR IRWD SERIES 2008A BONDS

Recommendation: That the Board approve an extension of the Sumitomo Mitsui Letter of Credit supporting IRWD's 2008A Refunding Bonds to May 2025 at an annual cost of 0.315%, and adopt a resolution authorizing certain actions in connection with extension of the Letter of Credit (Consolidated refunding series 2008A).

Reso. No. 2021

10. SHARED SERVICES AGREEMENT WITH THE GROUNDWATER BANKING JOINT POWERS AUTHORITY

Recommendation: That the Board authorize the General Manager to execute a Shared Services Agreement with the Groundwater Banking Joint Powers Authority for reimbursement of IRWD staff resources and other services.

11. HYDROEXCAVATOR CONTRACT AWARD

Recommendation: That the Board Authorize the General Manager to execute a contract with Plumber's Depot, Inc. in the amount of \$502,050 to purchase one new hydroexcavator.

12. PLANNING AREA 12 INNOVATION PARK REGIONAL ZONE A RECYCLED WATER IMPROVEMENTS

Recommendation: That the Board authorize the General Manager to accept Irvine Community Development Company's construction contract with Paulus Engineering, Inc. in the amount of \$1,107,770.03 for the Planning Area 12 Innovation Park Regional Zone A Recycled Water Improvements, Project 11584.

CONSENT CALENDAR - Continued (Items 5 through 13)

13. EASTWOOD RECYCLED WATER PUMP STATIONS CONTRACT CHANGE ORDER

Recommendation: That the Board approve Contract Change Order No. 12 in the amount of \$353,968.15 with Pacific Hydrotech Corporation for work associated with the existing 54-inch diameter recycled water pipeline repairs for the Eastwood Zone A to B and Zone A to C Recycled Water Pump Stations project.

ACTION CALENDAR

14. WOODBIDGE RECYCLED WATER PIPELINE REPLACEMENT CONSULTANT SELECTION

Recommendation: That the Board authorize the General Manager to execute a Professional Services Agreement with West Yost Associates in the amount of \$848,949 for engineering design services for the Woodbridge Recycled Water Pipeline Replacement, Project 11571.

15. SALT MANAGEMENT MODEL PHASE I UPDATE BUDGET INCREASE

Recommendation: That the Board authorize a budget increase in the amount of \$65,000, from \$187,500 to \$252,500, for Project 11135 to complete the Salt Management Model Phase 1 Update and Validation Project.

16. SAN JOAQUIN MARSH OPERATING GUIDELINES AND NATURAL TREATMENT SYSTEM FACILITIES THREE-YEAR LANDSCAPE MAINTENANCE SERVICES CONTRACT

Recommendation: That the Board authorize the General Manager to execute five three-year contracts for landscape maintenance services at IRWD's Natural Treatment System facilities, including a provision for a two-year extension, with Landcare and Endemic Environmental totaling \$4,560,733.

17. DISTRICT-WIDE LANDSCAPE AND IRRIGATION MAINTENANCE THREE-YEAR CONTRACT AWARD

Recommendation: That the Board authorize the General Manager to execute a Three-year Landscape and Irrigation Maintenance Contract with Trugreen Landcare, LLC for \$1,557,813 to maintain 146 IRWD sites.

ACTION CALENDAR - Continued

18. IRWD REOPENING PLAN CONSIDERATIONS

Recommendation: Receive and file.

OTHER BUSINESS

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

19. General Manager's Report

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

21. Directors' Comments

22. CLOSED SESSION CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION – Pursuant to Government Code Section 54956.9(d)(1):

a) *Kern County Water Agency v. Groundwater Banking Joint Powers Authority, Rosedale-Rio Bravo Water Storage District, Irvine Ranch Water District, Kern County Superior Court Case No. BCV-21-100223.*

b) *City of Bakersfield v. Groundwater Banking Joint Powers Authority, Rosedale-Rio Bravo Water Storage District, Irvine Ranch Water District, Kern County Superior Court Case No. BCV-21-100221-GP.*

24. Open Session.

25. Adjourn.

Availability of agenda materials: Agenda exhibits and other writings that are disclosable public records distributed to all or a majority of the members of the above-named Board in connection with a matter subject to discussion or consideration at an open meeting of the Board are available for public inspection in the District's office, 15600 Sand Canyon Avenue, Irvine, California ("District Office"). If such writings are distributed to members of the Board less than 72 hours prior to the meeting, they will be available from the District Secretary of the District Office at the same time as they are distributed to Board Members, except that if such writings are distributed one hour prior to, or during, the meeting, they will be available electronically via the Webex meeting noted. Upon request, the District will provide for written agenda materials in appropriate alternative formats, and reasonable disability-related modification or accommodation to enable individuals with disabilities to participate in and provide comments at public meetings. Please submit a request, including your name, phone number and/or email address, and a description of the modification, accommodation, or alternative format requested at least two days before the meeting. Requests should be emailed to comments@irwd.com. Requests made by mail must be received at least two days before the meeting. Requests will be granted whenever possible and resolved in favor of accessibility.

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April 26, 2021
Prepared by: D. Pardee / C. Smithson
Submitted by: C. Clary
Approved by: Paul A. Cook 

BOARD WORKSHOP

PROPOSED OPERATING AND NON- OPERATING BUDGETS FOR FISCAL YEARS 2021-22 AND 2022-23

SUMMARY:

The proposed Fiscal Year (FY) 2021-22 Operating Budget for IRWD is \$180.2 million, representing an increase of \$6.6 million, or 3.8%, when compared to the Operating Budget for FY 2020-21. The proposed FY 2022-23 Operating Budget for IRWD is \$187.7 million, representing an increase of \$7.6 million, or 4.2%, when compared to the proposed Operating Budget for FY 2021-22. The proposed FY 2021-22 Non-Operating Net Income Budget is \$76.7 million, representing a decrease of \$12.0 million when compared to the Non-Operating Budget for FY 2020-21. The proposed FY 2022-23 Non-Operating Budget is \$84.1 million, representing an increase of \$7.4 million when compared to the proposed Non-Operating Budget for FY 2021-22. At this second Board workshop, staff will again review the key assumptions and factors driving the proposed budgeted increases.

The proposed Budgets are included as Exhibit “A”. Provided as Exhibit “B” is the proposed resolution approving the Budgets for FY 2021-22 and FY 2022-23. A draft PowerPoint presentation is included as Exhibit “C”.

BACKGROUND:

The proposed Operating Budgets have been organized into nine major functional areas, plus separate sections for proposed general plant and labor changes. The proposed budget for FY 2021-22 represents an increase of \$6.6 million over the FY 2020-21 Operating Budget. The proposed budget for FY 2022-23 represents an increase of \$7.6 million over the FY 2021-22 Operating Budget. Quarterly reporting in FY 2021-22 and FY 2022-23 will include a review of actual versus budget results for operating and non-operating revenue and expenses.

In addition, staff has budgeted non-operating net income. It provides funding for the capital programs and existing debt, which are not included in operating expenses. The budget assumes net income of \$76.7 million in FY 2021-22, a decrease of \$12.0 million over FY 2020-21 and \$84.1 million in FY 2022-23, an increase of \$7.4 million over FY 2021-22.

Due to the continued economic impact of COVID-19 to IRWD’s customers, no changes to water and sewer rates are proposed at this time.

Next Steps:

Staff recommends approval of the proposed resolution approving the Operating and Non-Operating Budgets for FY 2021-22 and FY 2022-23, provided as Exhibit “B”. Staff will return to the Finance and Personnel Committee and the Board in fall 2021 to present updated considerations for rate increases that could be adopted after January 1, 2022.

FISCAL IMPACTS:

The fiscal impacts associated with the proposed operating and non-operating budgets for FY 2021-22 and FY 2022-23 are described above.

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 Operating and Non-operating budgets and assumptions were reviewed by the Finance and Personnel Committee on March 2, 2021, March 24, 2021 and April 6, 2021.

RECOMMENDATION:

THAT THE BOARD ADOPT THE FOLLOWING RESOLUTION BY TITLE APPROVING THE OPERATING AND NON-OPERATING BUDGETS FOR FISCAL YEARS 2021-22 AND 2022-23.

RESOLUTION NO. 2021 –

**RESOLUTION OF THE BOARD OF DIRECTORS
OF IRVINE RANCH WATER DISTRICT,
ORANGE COUNTY, CALIFORNIA
APPROVING THE DISTRICT’S OPERATING AND NON-OPERATING BUDGETS FOR
FISCAL YEAR 2021-22 AND FISCAL YEAR 2022-23 AND DETERMINING
COMPLIANCE WITH
ARTICLE XIII B OF THE CALIFORNIA CONSTITUTION**

LIST OF EXHIBITS:

Exhibit “A” – Proposed Operating and Non-Operating Budgets for FY 2021-22 and FY 2022-23
Exhibit “B” – Operating and Non-Operating Budgets Resolution
Exhibit “C” – Draft PowerPoint Presentation

Exhibit “A”

***IRVINE RANCH WATER DISTRICT
OPERATING AND NON-OPERATING
BUDGETS
FISCAL YEARS 2021-22 and 2022-23***



Irvine Ranch
WATER DISTRICT

“PROPOSED”

April 26, 2021



BUDGET

Key Assumptions Fiscal Years 2021-22 and 2022-23

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. Due to the continued economic impact of COVID-19 to the District's customers, the District has elected to defer any rate increase until after December 31, 2021. The District will re-evaluate the economic impacts of COVID-19 in the Fall of 2021 and consider a possible rate increase to be effective sometime in 2022 for both fiscal years.

This document is a summary of the major assumptions driving the development of the operating and non-operating budgets for FY 2021-22 and 2022-23.

I. OPERATING REVENUES

Growth Estimates:

Residential development growth includes both apartments and single family homes for FY 2021-22 and 2022-23. 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 1,800 mixed units coming online in each year for FY 2021-22 and 2022-23. As a result, the growth factor is estimated at 1.5% for FY 2021-22 and 2022-23.

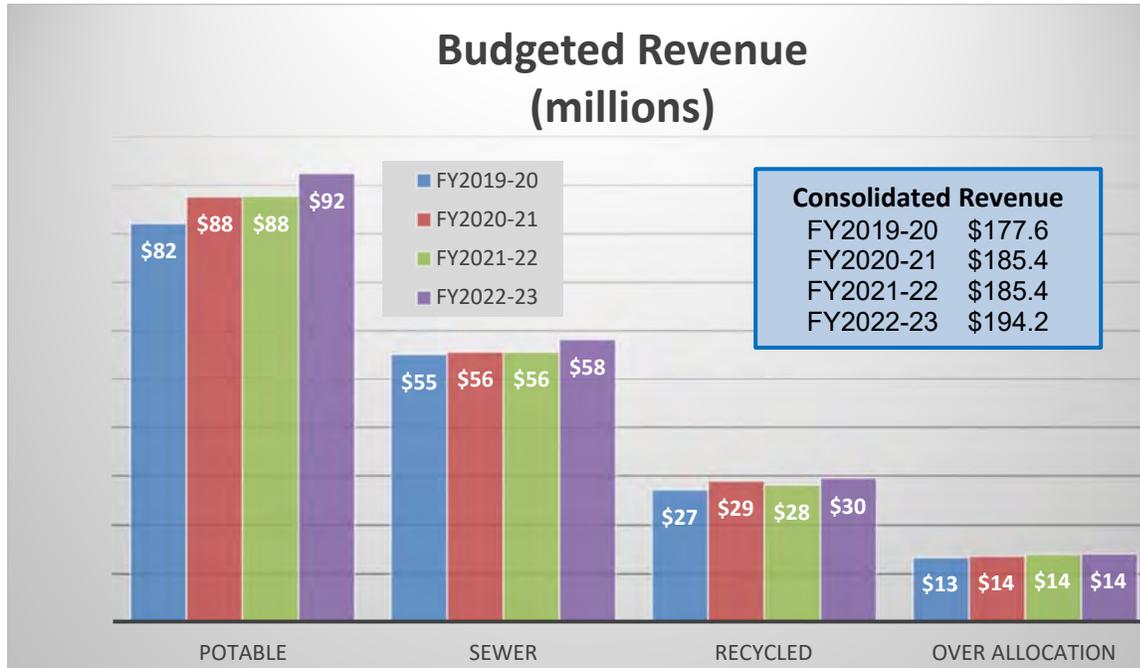
Development projections for the commercial/industrial sector identify 18 acres of development occurring in FY 2021-22 and 2022-23. Revenue assumptions used to estimate sewer revenue are consistent with the assumptions included for potable water.



BUDGET

Key Assumptions Fiscal Years 2021-22 and 2022-23

FY 2021-22 and 2022-23 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

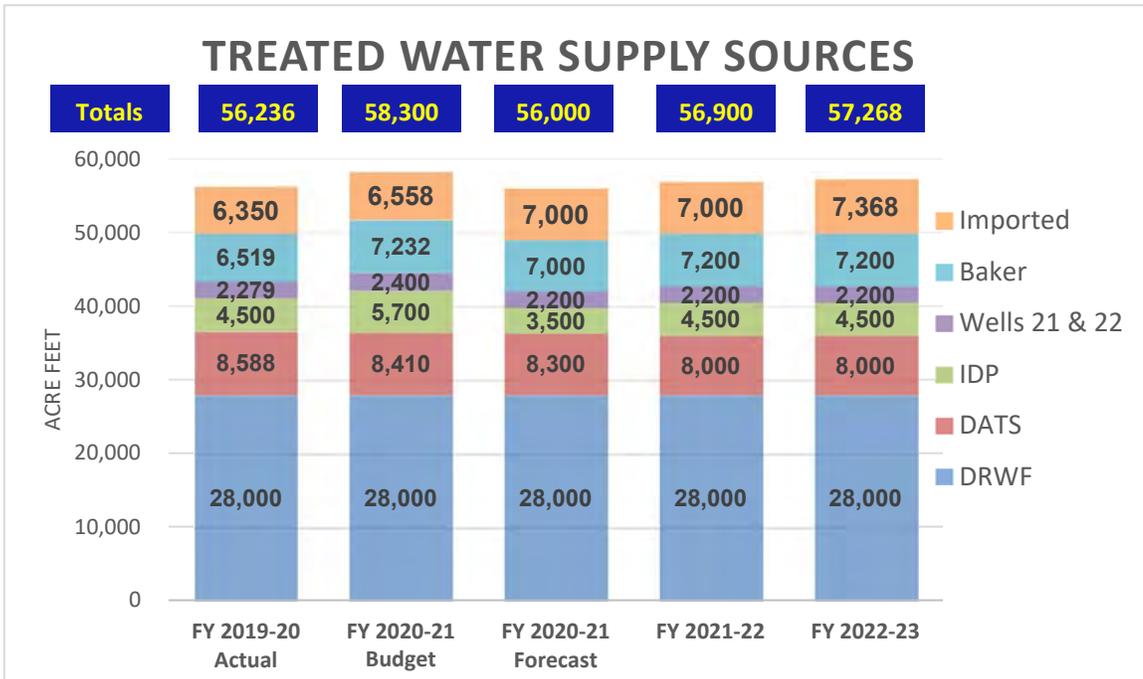
The District continues to make efforts in encouraging its customers to conserve. The District will continue to encourage conservation through use of a budgeted allocation. Customers continue to respond well to this messaging.

The FY 2021-22 and 2022-23 budget anticipates no significant change in use from FY 2020-21. The assumption is normal rainfall. The District is budgeting potable and untreated sales for FY 2021-22 and 2022-23 of 52,681 acre feet (AF) and 53,511 AF, respectively, compared to a budget of 54,126 AF and a forecast of 52,517 AF in FY 2020-21. The additional potable demand will be met with increased imported supply. The water sources, before process loss and shrinkage, used to meet potable sales are:



BUDGET

Key Assumptions Fiscal Years 2021-22 and 2022-23



The cost for source of supply is one of the District’s largest uncontrollable expenses. Groundwater provides over 49,000 acre feet and the District generates nearly 23,000 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 2020-21 | FY 2021-22 | FY 2022-23 |
|--|------------|------------|------------|
| Orange County Water District (OCWD) Replenishment Assessment (RA) | | | |
| Groundwater | \$511 | \$509 | \$540 |
| Metropolitan Water District (MWD)/MWD OC | | | |
| Imported Potable | \$1,110 | \$1,124 | \$1,166 |
| Imported Nonpotable | \$781 | \$790 | \$817 |
| Native Water | \$309 | \$335 | \$345 |

- No significant change to RA in year 1 and an increase of \$31/AF in year 2. The District’s basin production percentage (BPP) is set at a maximum of 70%, per the OCWD / IRWD Annexation Agreement executed in 2013.
- The electricity rate is budgeted to increase 5% in each FY 2021-22 and FY 2022-23.



BUDGET

Key Assumptions Fiscal Years 2021-22 and 2022-23

- 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 2021-22 and 2022-23. Previously, biosolids produced at MWRP were sent to the Orange County Sanitation District (OC SAN) for processing. The FY 2021-22 and 2022-23 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 three new positions budgeted in FY 2021-22 and one in FY 2022-23.
- In July of each year, a COLA and promotional factor are applied to salaries - Assumed at 1.6% and 3.0%, respectively.
- Assumes a 6% vacancy factor.
- Paid time off (vacation, sick, and holiday) has been restated from labor to benefits.

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

| Regular Salaries and Wages | |
|-----------------------------------|----------|
| (thousands) | |
| FY 2020-21 | \$33,543 |
| FY 2021-22 | \$34,770 |
| FY 2022-23 | \$36,327 |

The following table identifies the current and proposed contribution of the District toward employee benefits. The PERS contribution (ARC) and the amount in Excess of ARC will change from the previous Board approved policy based on the 2020 draft Cost of Service Study. The required ARC contribution is designated by PERS. The ARC 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 in Excess of ARC 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.



BUDGET

Key Assumptions Fiscal Years 2021-22 and 2022-23

| Additional Contributions Provided by the District | | | |
|---|---------------|---------------|---------------|
| | FY 2020-21 | FY 2021-22 | FY 2022-23 |
| Required PERS Employer Contribution (ARC) | 21.2% | 26.4% | 26.8% |
| PERS in Excess of ARC | <u>3.8%</u> | <u>5.0%</u> | <u>4.5%</u> |
| Combined Total | 25.0% | 31.4% | 31.8% |
| | | | |
| District Direct 401A Match | 3.0% | 3.0% | 3.0% |
| 401A Matching Contribution of 3% | 2.8% | 2.8% | 2.8% |

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

A. Revenues

Primary assumptions for FY 2021-22 and 2022-23 for each of the revenue categories are as follows:

- Property taxes – 3.4% and 2.8% growth respectively, in projected assessed values.
- Investment income – 0.55% and 0.70% average interest rate and an average cash balance of \$354.8 million and \$304.3 million, respectively.



BUDGET

Key Assumptions

Fiscal Years 2021-22 and 2022-23

- Connection fees – Based on current projections received from major developers.
- Real estate income – 2.0% growth for each fiscal year on commercial and residential income. FY 2021-22 and 2022-23 includes income from the Sand Canyon Professional Center building, half leased for three (3) months and fully leased for nine (9) months, respectively.
- Other income – includes lease revenue and other miscellaneous revenue.

B. Expenses

Primary assumptions for FY 2021-22 and 2022-23 are as follows:

- Interest expense – 3.70% average fixed debt rate for each fiscal year. 0.15% and 0.40% average variable debt rate, respectively; and
- Real estate expense – 2.0% growth for each fiscal year excluding depreciation as real estate is based on fair market value. The budget for each fiscal year reflects expenses for the Sand Canyon Professional Center building, including commission expense for leasing the building.

Irvine Ranch Water District
Consolidated Operating Budget Variances
Budget for FY 2021-22

(in thousands)

| Expense Name | Actual | | Forecast | Budget | | Budget Variances Incr(Decr) | |
|---|-------------------|--------------------------|-------------------|-------------------|-------------------|-----------------------------|----------------|
| | FY 2019-20 | FY 2020-21 (6 months) | FY 2020-21 | FY 2020-21 | FY 2021-22 | FY 2020-21 vs 2021-22 | % Variance |
| Salaries & Benefits | | | | | | | |
| Regular Labor* | \$ 33,929 | \$ 17,000 | \$ 34,043 | \$ 33,543 | \$ 34,770 | \$ 1,227 | 3.7% |
| Overtime Labor | 2,660 | 1,236 | 2,426 | 2,426 | 2,430 | 3 | 0.1% |
| Contract Labor | 1,815 | 861 | 1,851 | 1,851 | 1,411 | (440) | (23.8%) |
| Employee Benefits* | 26,277 | 13,320 | 29,292 | 26,692 | 30,484 | 3,792 | 14.2% |
| Salaries & Benefits Total | \$ 64,681 | \$ 32,417 | \$ 67,612 | \$ 64,512 | \$ 69,095 | \$ 4,583 | 7.1% |
| Purchased Water & Utilities | | | | | | | |
| Water | 42,205 | 23,156 | 43,681 | 44,681 | 42,330 | (2,351) | (5.3%) |
| Electricity | 14,143 | 10,505 | 19,337 | 18,537 | 19,715 | 1,178 | 6.4% |
| Fuel | 772 | 381 | 1,074 | 1,074 | 1,140 | 65 | 6.1% |
| Telecommunication | 695 | 378 | 775 | 775 | 860 | 85 | 11.0% |
| Other Utilities | 207 | 127 | 194 | 194 | 225 | 31 | 16.0% |
| Purchased Water & Utilities Total | \$ 58,022 | \$ 34,546 | \$ 65,061 | \$ 65,261 | \$ 64,270 | \$ (991) | (1.5%) |
| Materials & Supplies | | | | | | | |
| Chemicals | 3,100 | 1,683 | 3,829 | 4,529 | 4,424 | (105) | (2.3%) |
| Operating Supplies | 2,474 | 1,038 | 2,407 | 2,707 | 2,717 | 11 | 0.4% |
| Printing | 259 | 127 | 357 | 357 | 321 | (36) | (10.0%) |
| Postage | 498 | 315 | 669 | 669 | 416 | (253) | (37.8%) |
| Permits, Licenses and Fees | 1,758 | 1,369 | 1,872 | 1,872 | 2,023 | 150 | 8.0% |
| Office Supplies | 147 | 36 | 113 | 113 | 95 | (18) | (15.7%) |
| Duplicating Equipment | 110 | 61 | 188 | 188 | 153 | (35) | (18.6%) |
| Equipment Rental | 58 | 31 | 123 | 123 | 76 | (47) | (38.4%) |
| Materials & Supplies Total | \$ 8,404 | \$ 4,661 | \$ 9,557 | \$ 10,557 | \$ 10,225 | \$ (333) | (3.1%) |
| Professional Services | | | | | | | |
| Rep & Maint OCSAN & Others | 12,344 | 8,387 | 13,398 | 5,398 | 5,415 | 17 | 0.3% |
| Rep & Maint IRWD | 10,318 | 6,293 | 11,742 | 11,742 | 13,315 | 1,573 | 13.4% |
| Insurance | 1,314 | 715 | 1,552 | 1,552 | 2,363 | 811 | 52.2% |
| Legal Fees | 1,735 | 940 | 2,240 | 2,440 | 3,076 | 636 | 26.1% |
| Engineering Fees | 681 | 554 | 823 | 823 | 1,226 | 402 | 48.8% |
| Accounting Fees | 81 | 48 | 111 | 111 | 97 | (14) | (12.6%) |
| Data Processing | 3,147 | 1,789 | 3,224 | 3,224 | 4,042 | 818 | 25.4% |
| Personnel Training | 1,254 | 489 | 1,041 | 1,541 | 1,462 | (79) | (5.1%) |
| Personnel Physicals | 26 | 33 | 45 | 45 | 27 | (18) | (40.0%) |
| Other Professional Fees | 3,404 | 1,764 | 4,091 | 5,391 | 5,754 | 363 | 6.7% |
| Directors' Fees | 157 | 89 | 186 | 186 | 188 | 2 | 1.1% |
| Professional Services Total | \$ 34,461 | \$ 21,101 | \$ 38,454 | \$ 32,454 | \$ 36,965 | \$ 4,511 | 13.9% |
| Other | | | | | | | |
| Mileage Reimbursement | 177 | 77 | 150 | 150 | 158 | 8 | 5.3% |
| Collection Fees | 1 | - | 13 | 13 | 12 | (1) | (10.4%) |
| Election Expense | 150 | 78 | 155 | 155 | 160 | 5 | 3.2% |
| Safety | 133 | 35 | 143 | 143 | 120 | (22) | (15.7%) |
| Alarm and Patrol Services | 756 | 284 | 850 | 850 | 860 | 10 | 1.2% |
| Biosolids Disposals | 31 | 13 | 244 | 1,044 | 390 | (654) | (62.6%) |
| Commuter Program | 142 | 2 | 10 | 260 | 151 | (110) | (42.1%) |
| Computer Backup Storage | 2 | 1 | 12 | 12 | - | (12) | (100.0%) |
| Contract Meter Reading | 1,466 | 622 | 1,550 | 1,550 | 1,550 | - | 0.0% |
| Other | 117 | 52 | 129 | 129 | 111 | (18) | (13.8%) |
| Conservation | 210 | 96 | 203 | 1,003 | 718 | (285) | (28.4%) |
| Other Total | \$ 3,185 | \$ 1,260 | \$ 3,459 | \$ 5,309 | \$ 4,230 | \$ (1,079) | (20.3%) |
| Total | \$ 168,754 | \$ 93,985 | \$ 184,144 | \$ 178,094 | \$ 184,785 | \$ 6,692 | 3.8% |
| Less: Reimbursements from Baker Partners and Others | (5,580) | (3,198) | (4,518) | (4,518) | (4,627) | (109) | 2.4% |
| Grand Total | \$ 163,173 | \$ 90,788 | \$ 179,626 | \$ 173,576 | \$ 180,158 | \$ 6,582 | 3.8% |

* Paid time off restated from labor to employee benefits for FY 2019-20 actual and FY 2020-21 Budget

Irvine Ranch Water District
Consolidated Operating Budget Variances
Budget for FY 2022-23

(in thousands)

| | Forecast | | Budget | | Budget Variances Incr(Decr) | |
|---|-------------------|-------------------|-------------------|-----------------------|-----------------------------|--|
| Expense Name | FY 2020-21 | FY 2021-22 | FY 2022-23 | FY 2021-22 vs 2022-23 | % Variance | |
| Salaries & Benefits | | | | | | |
| Regular Labor | \$ 34,043 | \$ 34,770 | \$ 36,327 | \$ 1,557 | 4.5% | |
| Overtime Labor | 2,426 | 2,430 | 2,500 | 71 | 2.9% | |
| Contract Labor | 1,851 | 1,411 | 1,380 | (31) | (2.2%) | |
| Employee Benefits | 29,292 | 30,484 | 31,981 | 1,497 | 4.9% | |
| Salaries & Benefits Total | \$ 67,612 | \$ 69,095 | \$ 72,188 | \$ 3,093 | 4.5% | |
| Purchased Water & Utilities | | | | | | |
| Water | 43,681 | 42,330 | 45,491 | 3,160 | 7.5% | |
| Electricity | 19,337 | 19,715 | 20,393 | 678 | 3.4% | |
| Fuel | 1,074 | 1,140 | 1,141 | 2 | 0.1% | |
| Telecommunication | 775 | 860 | 860 | 0 | 0.0% | |
| Other Utilities | 194 | 225 | 227 | 2 | 0.9% | |
| Purchased Water & Utilities Total | \$ 65,061 | \$ 64,270 | \$ 68,113 | \$ 3,843 | 6.0% | |
| Materials & Supplies | | | | | | |
| Chemicals | 3,829 | 4,424 | 4,520 | 96 | 2.2% | |
| Operating Supplies | 2,407 | 2,717 | 2,778 | 61 | 2.2% | |
| Printing | 357 | 321 | 347 | 26 | 8.0% | |
| Postage | 669 | 416 | 496 | 80 | 19.3% | |
| Permits, Licenses and Fees | 1,872 | 2,023 | 2,027 | 4 | 0.2% | |
| Office Supplies | 113 | 95 | 96 | 1 | 0.7% | |
| Duplicating Equipment | 188 | 153 | 153 | - | 0.0% | |
| Equipment Rental | 123 | 76 | 76 | 0 | 0.5% | |
| Materials & Supplies Total | \$ 9,557 | \$ 10,225 | \$ 10,493 | \$ 268 | 2.6% | |
| Professional Services | | | | | | |
| Rep & Maint OCSAN & Others | 13,398 | 5,415 | 5,417 | 2 | 0.0% | |
| Rep & Maint IRWD | 11,742 | 13,315 | 13,668 | 352 | 2.6% | |
| Insurance | 1,552 | 2,363 | 2,768 | 405 | 17.1% | |
| Legal Fees | 2,240 | 3,076 | 3,247 | 171 | 5.6% | |
| Engineering Fees | 823 | 1,226 | 1,094 | (131) | (10.7%) | |
| Accounting Fees | 111 | 97 | 100 | 3 | 3.1% | |
| Data Processing | 3,224 | 4,042 | 4,079 | 37 | 0.9% | |
| Personnel Training | 1,041 | 1,462 | 1,551 | 89 | 6.1% | |
| Personnel Physicals | 45 | 27 | 27 | - | 0.0% | |
| Other Professional Fees | 4,091 | 5,754 | 5,385 | (369) | (6.4%) | |
| Directors' Fees | 186 | 188 | 202 | 14 | 7.4% | |
| Professional Services Total | \$ 38,454 | \$ 36,965 | \$ 37,539 | \$ 574 | 1.6% | |
| Other | | | | | | |
| Mileage Reimbursement | 150 | 158 | 158 | - | 0.0% | |
| Collection Fees | 13 | 12 | 13 | 1 | 8.3% | |
| Election Expense | 155 | 160 | 165 | 5 | 3.1% | |
| Safety | 143 | 120 | 120 | 0 | 0.0% | |
| Alarm and Patrol Services | 850 | 860 | 860 | - | 0.0% | |
| Biosolids Disposals | 244 | 390 | 356 | (34) | (8.8%) | |
| Commuter Program | 10 | 151 | 220 | 70 | 46.2% | |
| Computer Backup Storage | 12 | - | - | - | 0.0% | |
| Contract Meter Reading | 1,550 | 1,550 | 1,575 | 25 | 1.6% | |
| Other | 129 | 111 | 111 | - | 0.0% | |
| Conservation | 203 | 718 | 695 | (23) | (3.2%) | |
| Other Total | \$ 3,459 | \$ 4,230 | \$ 4,273 | \$ 43 | 1.0% | |
| Total | \$ 184,144 | \$ 184,785 | \$ 192,606 | \$ 7,821 | 4.2% | |
| Less: Reimbursements from Baker Partners and Others | (4,518) | (4,627) | (4,859) | (232) | 5.0% | |
| Grand Total | \$ 179,626 | \$ 180,158 | \$ 187,747 | \$ 7,589 | 4.2% | |



REVENUES AND EXPENSES BY SYSTEM

FY 2021-22

(in thousands)

| | Water | Recycled | Sewer | Conserve & NTS | Consolidated |
|--|-------------|-------------|-------------|-------------------|--------------|
| Revenue: | | | | | |
| Commodity | \$ 49,645 | \$ 20,941 | \$ - | \$ - | \$ 70,586 |
| All Other Operating Revenue | 38,039 | 7,176 | 55,611 | 13,986 | 114,812 |
| Total Revenue | \$ 87,684 | \$ 28,117 | \$ 55,611 | \$ 13,986 | \$ 185,398 |
| Contribution to Enhancement and Replacement Funds | (9,600) | (1,246) | (23,379) | - | (34,225) |
| Net Revenues | \$ 78,084 | \$ 26,871 | \$ 32,232 | \$ 13,986 | \$ 151,173 |
| Expenses: | | | | | |
| Cost of Water | \$ 49,714 | \$ 13,882 | \$ - | \$ - | \$ 63,596 |
| OCSAN - O&M | - | - | 4,177 | - | 4,177 |
| All Other Operating Expenses | 27,520 | 12,781 | 27,298 | 13,986 | 81,585 |
| General Plant | 850 | 208 | 757 | - | 1,815 |
| Total Expenses | \$ 78,084 | \$ 26,871 | \$ 32,232 | \$ 13,986 | \$ 151,173 |
| Net Operating Position | \$ - | \$ - | \$ - | \$ - | \$ - |



REVENUES AND EXPENSES BY SYSTEM

FY 2022-23

(in thousands)

| | Water | Recycled | Sewer | Conserve & NTS | Consolidated |
|---|-------------|-------------|-------------|-------------------|--------------|
| Revenue: | | | | | |
| Commodity | \$ 52,352 | \$ 22,112 | \$ - | \$ - | \$ 74,464 |
| All Other Operating Revenue | 40,027 | 7,420 | 58,182 | 14,127 | 119,756 |
| Total Revenue | \$ 92,379 | \$ 29,532 | \$ 58,182 | \$ 14,127 | \$ 194,220 |
| Contribution to Enhancement and Replacement Funds | (10,567) | (1,349) | (24,884) | - | (36,800) |
| Net Revenues | \$ 81,812 | \$ 28,183 | \$ 33,298 | \$ 14,127 | \$ 157,420 |
| Expenses: | | | | | |
| Cost of Water | \$ 52,540 | \$ 15,069 | \$ - | \$ - | \$ 67,609 |
| OCSAN - O&M | - | - | 4,182 | - | 4,182 |
| All Other Operating Expenses | 28,516 | 12,965 | 28,433 | 14,127 | 84,041 |
| General Plant | 756 | 149 | 683 | - | 1,588 |
| Total Expenses | \$ 81,812 | \$ 28,183 | \$ 33,298 | \$ 14,127 | \$ 157,420 |
| Net Operating Position | \$ - | \$ - | \$ - | \$ - | \$ - |



NON-OPERATING

FY 2021-22

*Net Income**

| <i>(in thousands)</i> | Forecast FY 2020-21 | Budget FY 2020-21 | FY 2021-22 | Change |
|--------------------------------|--------------------------------|------------------------------|-------------------------|---------------------------|
| Non-operating Revenue: | | | | |
| Property Taxes | \$ 71,000 | \$ 68,700 | \$ 71,000 | \$ 2,300 |
| Investment Income | 5,000 | 10,000 | 1,930 | (8,070) |
| Connection Fees | 12,000 | 18,000 | 10,000 | (8,000) |
| Real Estate Income | 15,600 | 16,600 | 16,190 | (410) |
| Other Income | 8,000 | 8,000 | 7,000 | (1,000) |
| Total Revenue | <u>\$ 111,600</u> | <u>\$ 121,300</u> | <u>\$ 106,120</u> | <u>\$ (15,180)</u> |
| Non-operating Expenses: | | | | |
| Interest Expense | \$ 21,000 | \$ 24,900 | \$ 21,210 | \$ (3,690) |
| Real Estate Expense | 5,900 | 5,700 | 6,700 | 1,000 |
| Other Expenses | 2,000 | 2,000 | 1,500 | (500) |
| Total Expense | <u>\$ 28,900</u> | <u>\$ 32,600</u> | <u>\$ 29,410</u> | <u>\$ (3,190)</u> |
| Net Income | <u><u>\$ 82,700</u></u> | <u><u>\$ 88,700</u></u> | <u><u>\$ 76,710</u></u> | <u><u>\$ (11,990)</u></u> |

*Excludes non-cash items, fair value changes, and Pension Benefit Trust.



NON-OPERATING

FY 2022-23

*Net Income**

| (in thousands) | <u>FY 2021-22</u> | <u>FY 2022-23</u> | <u>Change</u> |
|--------------------------------|-------------------------|-------------------------|------------------------|
| Non-operating Revenue: | | | |
| Property Taxes | \$ 71,000 | \$ 73,000 | \$ 2,000 |
| Investment Income | 1,930 | 2,080 | 150 |
| Connection Fees | 10,000 | 13,000 | 3,000 |
| Real Estate Income | 16,190 | 18,180 | 1,990 |
| Other Income | 7,000 | 7,000 | - |
| Total Revenue | <u>\$ 106,120</u> | <u>\$ 113,260</u> | <u>\$ 7,140</u> |
| Non-operating Expenses: | | | |
| Interest Expense | \$ 21,210 | \$ 21,280 | \$ 70 |
| Real Estate Expense | 6,700 | 6,340 | (360) |
| Other Expenses | 1,500 | 1,500 | - |
| Total Expense | <u>\$ 29,410</u> | <u>\$ 29,120</u> | <u>\$ (290)</u> |
| Net Income | <u><u>\$ 76,710</u></u> | <u><u>\$ 84,140</u></u> | <u><u>\$ 7,430</u></u> |

*Excludes non-cash items, fair value changes, and Pension Benefit Trust.



COST OF WATER

BUDGETED COST OF WATER

| <i>(in thousands)</i> | FY 2020-21 | | | FY 2021-22 | | | Change | |
|---|---------------|------------------|-----------|---------------|------------------|-----------|----------------|-------------------|
| | Acre Feet | Total | Cost / AF | Acre Feet | Total | Cost / AF | Acre Feet | Total |
| <u>TREATED</u> | | | | | | | | |
| Purchased from MWDOC | 6,558 | \$8,787 | \$1,340 | 7,000 | \$ 9,530 | \$1,361 | 442 | \$ 743 |
| Dyer Road Well Field | 28,000 | 18,228 | 651 | 28,000 | 18,545 | 662 | - | 317 |
| Deep Aquifer Treatment System | 8,400 | 6,668 | 794 | 8,000 | 6,058 | 757 | (400) | (610) |
| Lost to Production | (168) | | | (160) | | | 8 | |
| Wells 21 & 22 Desalter | 2,400 | 2,600 | 1,083 | 2,200 | 2,552 | 1,160 | (200) | (48) |
| Lost to Production | (360) | | | (330) | | | 30 | |
| Baker WTP | 7,232 | 7,899 | 1,092 | 7,200 | 7,943 | 1,103 | (32) | 44 |
| Lost to Production | (145) | | | (144) | | | 1 | |
| Irvine Desalter Project | 5,700 | 5,117 | 898 | 4,500 | 4,307 | 957 | (1,200) | (811) |
| Lost to Production | (855) | | | (675) | | | 180 | |
| Total Shrinkage | (2,833) | | | (3,107) | | | (274) | |
| Total Treated Sales | 53,939 | \$ 49,306 | | 52,494 | \$ 48,989 | | (1,445) | \$ (317) |
| Total Sources | 58,300 | | | 56,900 | | | (1,400) | |
| <u>UNTREATED</u> | | | | | | | | |
| Purchased from MWDOC | 4,652 | \$ 3,995 | \$859 | 1,491 | \$ 1,341 | \$899 | (3,161) | \$ (2,654) |
| Native Water | 1,500 | 463 | 309 | 2,000 | 670 | 335 | 500 | 206 |
| Santiago Aqueduct Commission | 175 | 144 | 821 | 175 | 139 | 796 | (0) | (5) |
| Transfer to RW System | (6,131) | (4,304) | 702 | (3,460) | (2,481) | 717 | 2,671 | 1,823 |
| Total Shrinkage | (9) | | | (19) | | | (10) | |
| Total Untreated Sales | 187 | \$ 298 | | 187 | \$ (331) | | (1) | \$ (629) |
| Total Sources | 196 | | | 206 | | | 10 | |
| <u>RECYLED</u> | | | | | | | | |
| El Toro Groundwater Remediation | 4,600 | \$ 3,656 | \$795 | 4,600 | \$ 3,409 | \$741 | - | \$ (247) |
| Lost to Production | (625) | | | (625) | | | - | |
| MWRP / LAWRP Production | 22,890 | 6,564 | 287 | 22,890 | 7,970 | 348 | - | 1,406 |
| Transfer from Untreated System | 6,131 | 4,304 | 702 | 3,460 | 2,481 | 717 | (2,671) | (1,823) |
| Total Shrinkage | (697) | | | (595) | | | 103 | |
| Total Recycled System | 32,299 | \$ 14,524 | | 29,731 | \$ 13,860 | | (2,569) | \$ (664) |
| Total Sources | 33,621 | | | 30,950 | | | (2,671) | |
| Total Cost of Water for Billed Usage | 86,434 | \$ 64,128 | | 82,411 | \$ 62,518 | | (4,015) | \$ (1,611) |



COST OF WATER

BUDGETED COST OF WATER

| <i>(in thousands)</i> | FY 2021-22 | | | FY 2022-23 | | | Change | |
|---|---------------|------------------|-----------|---------------|------------------|-----------|--------------|-----------------|
| | Acre Feet | Total | Cost / AF | Acre Feet | Total | Cost / AF | Acre Feet | Total |
| <u>TREATED</u> | | | | | | | | |
| Purchased from MWDOC | 7,000 | \$ 9,530 | \$1,361 | 7,368 | \$ 10,327 | \$1,402 | 368 | \$ 798 |
| Dyer Road Well Field | 28,000 | 18,545 | 662 | 28,000 | 19,852 | 709 | - | 1,307 |
| Deep Aquifer Treatment System | 8,000 | 6,058 | 757 | 8,000 | 6,464 | 808 | - | 406 |
| Lost to Production | (160) | | | (160) | | | - | - |
| Wells 21 & 22 Desalter | 2,200 | 2,552 | 1,160 | 2,200 | 2,687 | 1,221 | - | 135 |
| Lost to Production | (330) | | | (330) | | | - | - |
| Baker WTP | 7,200 | 7,943 | 1,103 | 7,200 | 8,343 | 1,159 | - | 401 |
| Lost to Production | (144) | | | (144) | | | - | - |
| Irvine Desalter Project | 4,500 | 4,307 | 957 | 4,500 | 4,575 | 1,017 | - | 268 |
| Lost to Production | (675) | | | (675) | | | - | - |
| Total Shrinkage | (3,107) | | | (2,675) | | | 432 | - |
| Total Treated | 52,494 | \$ 48,989 | | 53,294 | \$ 52,304 | | 800 | \$ 3,315 |
| Total Sources | 56,900 | | | 57,268 | | | 368 | |
| <u>UNTREATED</u> | | | | | | | | |
| Purchased from MWDOC | 1,491 | \$ 1,341 | \$899 | 2,250 | \$ 2,063 | \$917 | 759 | \$ 722 |
| Native Water | 2,000 | 670 | 335 | 2,000 | 690 | 345 | - | 20 |
| Santiago Aqueduct Commission | 175 | 139 | 796 | 175 | 147 | 840 | - | 8 |
| Transfer to RW System | (3,460) | (2,481) | 717 | (4,189) | (3,192) | 762 | (729) | (711) |
| Total Shrinkage | (19) | | | (19) | | | (1) | - |
| Total Untreated | 187 | \$ (331) | | 217 | \$ (293) | | 29 | \$ 38 |
| Total Sources | 206 | | | 236 | | | 30 | |
| <u>RECYLED</u> | | | | | | | | |
| El Toro Groundwater Remediation | 4,600 | 3,409 | 741 | 4,600 | 3,661 | \$796 | - | 252 |
| Lost to Production | (625) | | | (625) | | | - | |
| MWRP / LAWRP Production | 22,890 | 7,970 | 348 | 22,890 | 8,314 | 363 | - | 343 |
| Transfer from Untreated System | 3,460 | 2,481 | 717 | 4,189 | 3,192 | 762 | 729 | 711 |
| Total Shrinkage | (595) | | | (609) | | | (14) | |
| Total Recycled Sales | 29,731 | \$ 13,860 | | 30,445 | \$ 15,167 | | 715 | \$ 1,307 |
| Total Sources | 30,950 | | | 31,679 | | | 729 | |
| Total Cost of Water for Billed Usage | 82,411 | \$ 62,518 | | 83,956 | \$ 67,178 | | 1,544 | \$ 4,660 |



GENERAL MANAGER'S OFFICE

OPERATING BUDGET SUMMARY

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 Government Relations which develops and advocates 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 demonstrates the efficient use of resources. The Government Relations staff represents 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.

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 February 5, 2021, staff reviewed the 2021 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 2021 are summarized as follows:

Major Goals

1. Optimize and protect local groundwater utilization.
2. Evaluate and invest in projects and programs that will enhance future long-term water supply reliability and resiliency to climate change.



GENERAL MANAGER'S OFFICE

OPERATING BUDGET SUMMARY

3. Optimize use of Irvine Lake as a water resource facility for IRWD and its current and future partners.
4. Develop water banking supplies for IRWD by working with current and future partners.
5. Develop and implement the Kern Fan Groundwater Storage Project.
6. Develop water recycling facilities and applications for optimal benefit.
7. Maximize resource recovery from fully functional biosolids and other resource recovery facilities.
8. Improve energy service reliability, manage demands, control greenhouse gas emissions, and control costs.
9. Maximize watershed protection.
10. Ensure financial and rate stability.
11. Identify, assess and implement new technologies, systems, and facilities to improve operating efficiency.
12. Enhance customer communications.
13. Maximize water use efficiency in the community.
14. Recruit, develop and retain a highly skilled, motivated, and educated work force.
15. Guide and lead local, state and federal policies and legislation.
16. Engage and shape policies and regulations put forth by local, state and federal agencies.
17. Collaborate with other agencies and entities through leadership and innovation.
18. Implement opportunities that enhance safety, security, and emergency preparedness throughout the District.

Irvine Ranch Water District Strategic Objectives

Customer Satisfaction

Provide reliable, responsive, satisfying service to our customers in all aspects of our operations.

Water Reliability

Provide a continuous, reliable supply of water to our current and future customers that meets their needs and expectations, and accounts for changes in climate variability.

Water Quality

Deliver potable and non-potable water that meets all regulatory standards and customer requirements, and improve the water quality of local urban runoff.

Sewer Reliability

Plan, design, operate and maintain the sewer system in a consistent, reliable, and cost effective manner.

Cost Effectiveness

Optimize all of the District's activities to provide service at the lowest possible cost with high standards of quality and reliability.

Employee Satisfaction / Development

Provide employees with a working environment and the tools needed to optimize performance, productivity, and satisfaction and encourage individual career development and enjoyment.

Environmental Commitment

Conduct our business so that we either enhance our environment or minimize negative impacts.

Innovation

Optimize the use of technology and innovation in order to constantly improve processes to provide the most reliable and cost effective services to our customers.

Resource Recovery

Maximize the efficient recovery of resources including the recycling of water, recovery of energy, and use of organic materials for the benefit of our customers and the community.

Communication

Provide clear, accurate, transparent, and timely communication of information regarding our services, projects, finances, and activities utilizing multiple disciplinary tools that include educational programs, publications, electronic media and personal contact.

Water Policy

Develop and advocate for policies at the local, state, and federal levels that promote a reliable, high quality, and cost effective water supply for our customers, as well as the efficient use of resources.

Climate Change

Pursue policies and programs that advance IRWD's resilience to climate change.

Irvine Ranch Water District **Mission, Vision, and Values**

Mission

The mission of Irvine Ranch Water District, a public agency, is to provide high quality water and sewer service in an efficient, cost effective, and environmentally sensitive manner that provides a high level of customer satisfaction.

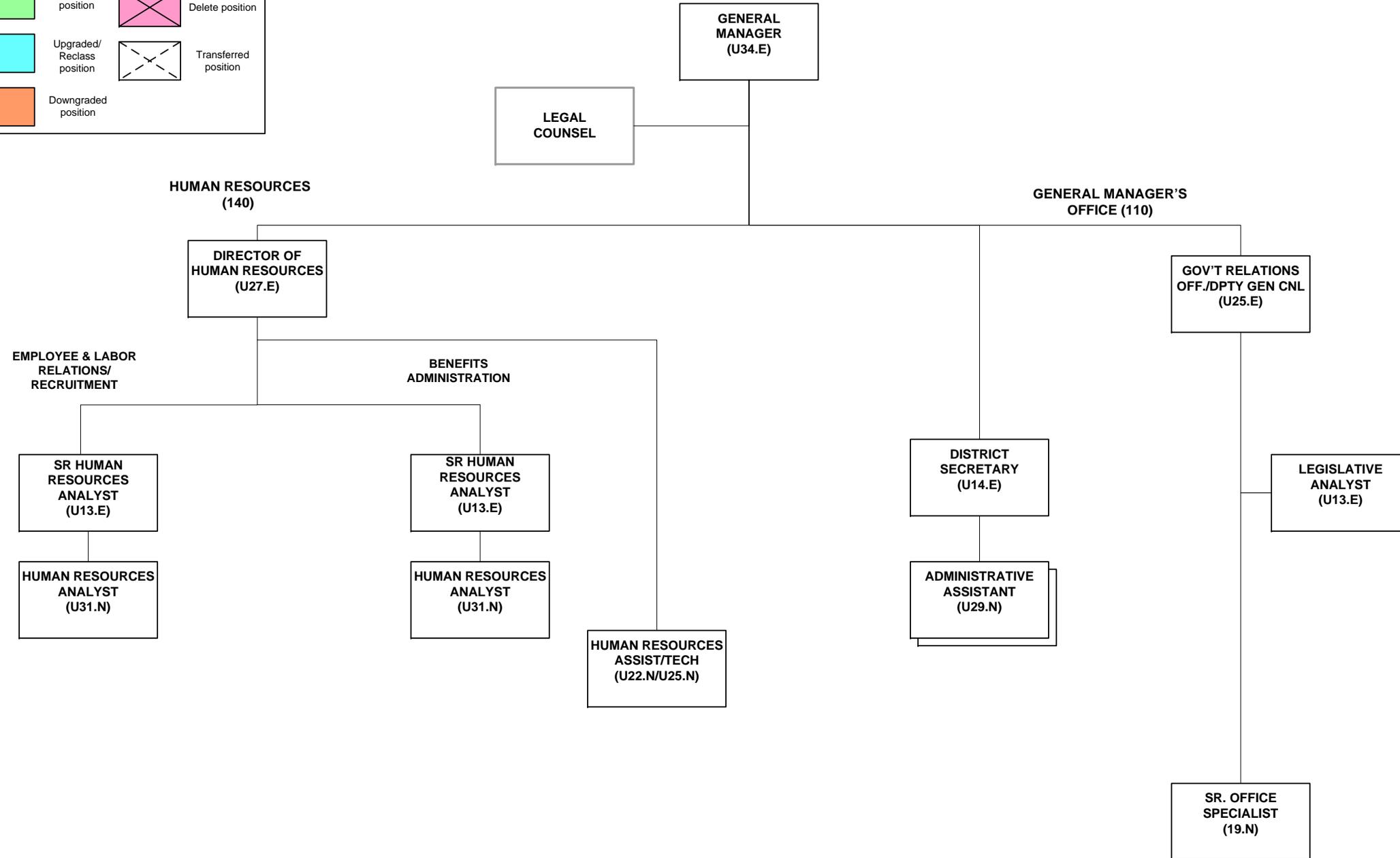
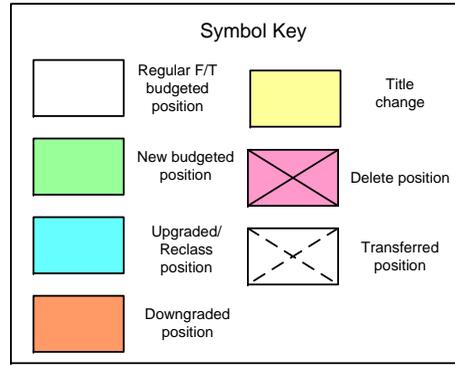
Vision

The Irvine Ranch Water District's vision is to achieve greater customer and employee satisfaction, increased reliability and resource conservation, and excellent external relationships with suppliers and others.

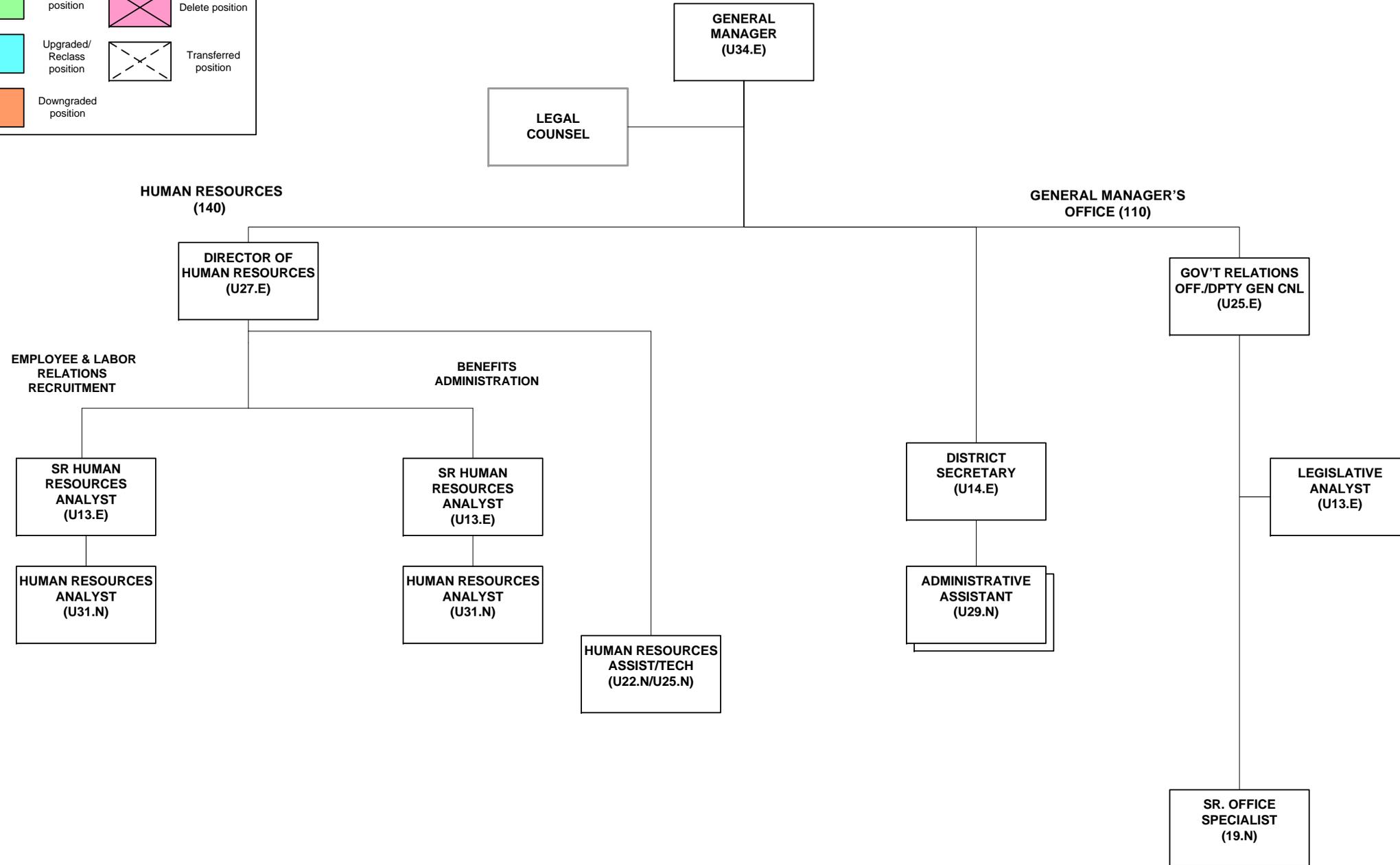
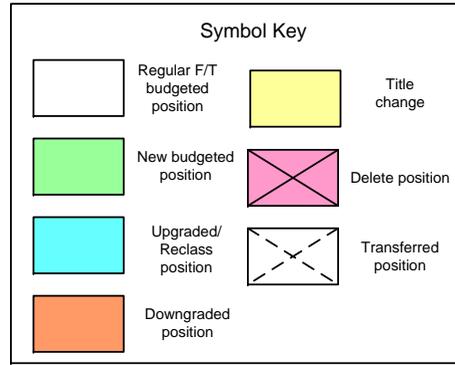
Values

| | |
|----------------------|---|
| Customer Service | We are dedicated to delivering superior service to our customers. |
| 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. |
| 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. |
| Community Leadership | We will share our resources with the community through education, policy leadership and employee involvement. |

**IRVINE RANCH WATER DISTRICT
ADMINISTRATION
FISCAL YEAR 2021-22**



**IRVINE RANCH WATER DISTRICT
ADMINISTRATION
FISCAL YEAR 2022-23**



Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2021-22

| Administration | | FY 2019-20 | FY 2020-21 | FY 2020-21 | FY 2021-22 | |
|--------------------------------------|----------------------------|------------|-------------------------|------------|--------------------|-------------|
| Dept No | Expense Name | Actual | Actual thru 12/31/20 | Budget | Proposed Budget | Incr/(Decr) |
| <u>General Managers Office</u> | | | | | | |
| 110 | Regular Labor | 965,325 | 497,480 | 829,121 | 865,000 | 35,879 |
| 110 | Overtime Labor | 4,297 | 0 | 7,800 | 8,000 | 200 |
| 110 | Employee Benefits | 325,067 | 115,482 | 123,560 | 626,800 | 503,240 |
| 110 | Operating Supplies | 8 | 0 | 0 | 0 | 0 |
| 110 | Printing | 14,774 | 0 | 15,000 | 15,000 | 0 |
| 110 | Postage | 170 | 0 | 251 | 252 | 1 |
| 110 | Permits, Licenses and Fees | 50,143 | 20,054 | 70,349 | 72,000 | 1,651 |
| 110 | Office Supplies | 3,382 | 109 | 4,200 | 4,300 | 100 |
| 110 | Rep & Maint IRWD | 0 | 1,860 | 0 | 0 | 0 |
| 110 | Legal Fees | 1,675,237 | 913,980 | 2,300,000 | 2,976,250 | 676,250 |
| 110 | Personnel Training | 422,816 | 226,908 | 465,349 | 461,850 | (3,499) |
| 110 | Other Professional Fees | 613,577 | 251,378 | 916,150 | 982,400 | 66,250 |
| 110 | Directors Fees | 156,966 | 88,500 | 185,900 | 188,000 | 2,100 |
| 110 | Election Expense | 150,000 | 77,500 | 154,999 | 160,000 | 5,001 |
| Total General Managers Office | | 4,381,762 | 2,193,252 | 5,072,679 | 6,359,852 | 1,287,173 |

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2022-23

Administration

| <u>Dept No</u> | <u>Expense Name</u> | FY 2019-20 Actual | FY 2020-21 Actual thru 12/31/20 | FY 2021-22 Proposed Budget | FY 2022-23 Proposed Budget | Incr/(Decr) |
|--------------------------------------|----------------------------|----------------------|---------------------------------------|----------------------------------|----------------------------------|----------------|
| General Managers Office | | | | | | |
| 110 | Regular Labor | 965,325 | 497,480 | 865,000 | 903,600 | 38,600 |
| 110 | Overtime Labor | 4,297 | 0 | 8,000 | 8,400 | 400 |
| 110 | Employee Benefits | 325,067 | 115,482 | 626,800 | 660,800 | 34,000 |
| 110 | Operating Supplies | 8 | 0 | 0 | 0 | 0 |
| 110 | Printing | 14,774 | 0 | 15,000 | 15,000 | 0 |
| 110 | Postage | 170 | 0 | 252 | 252 | 0 |
| 110 | Permits, Licenses and Fees | 50,143 | 20,054 | 72,000 | 72,000 | 0 |
| 110 | Office Supplies | 3,382 | 109 | 4,300 | 4,400 | 100 |
| 110 | Rep & Maint IRWD | 0 | 1,860 | 0 | 0 | 0 |
| 110 | Legal Fees | 1,675,237 | 913,980 | 2,976,250 | 3,147,250 | 171,000 |
| 110 | Personnel Training | 422,816 | 226,908 | 461,850 | 497,100 | 35,250 |
| 110 | Other Professional Fees | 613,577 | 251,378 | 982,400 | 1,013,400 | 31,000 |
| 110 | Directors Fees | 156,966 | 88,500 | 188,000 | 202,000 | 14,000 |
| 110 | Election Expense | 150,000 | 77,500 | 160,000 | 165,000 | 5,000 |
| Total General Managers Office | | 4,381,762 | 2,193,252 | 6,359,852 | 6,689,202 | 329,350 |



HUMAN RESOURCES

OPERATING BUDGET SUMMARY

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 program is responsible for attracting and recruiting a highly qualified work force and working in concert with the organization leadership to develop and sustain a motivated, productive organization.

Human Resources ensures the delivery of a competitive compensation and benefits package; continuous improvement through employee training; fair and consistent employee policies, procedures and guidelines; and an ongoing employee reward and recognition program tied to the achievement of stated goals and objectives. Human Resources is responsible for the employee relations and labor relations processes and facilitates communication and trust with staff through collaboration and the open exchange of ideas.

Major Goals

- Update IRWD hiring practices and procedures.
- Partner with management to assess training and development needs of IRWD employees to ensure a continued supply of highly skilled labor; and
- Evaluate District Policies and Procedures.

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2021-22

| Administration | | FY 2019-20 | FY 2020-21 | FY 2020-21 | FY 2021-22 | |
|------------------------------|-------------------------|------------|-------------------------|------------|--------------------|--------------|
| Dept No | Expense Name | Actual | Actual thru 12/31/20 | Budget | Proposed Budget | Incr/(Decr) |
| Human Resources | | | | | | |
| 140 | Regular Labor | 557,182 | 311,669 | 579,141 | 569,500 | (9,641) |
| 140 | Overtime Labor | 22,867 | 17,029 | 5,000 | 20,000 | 15,000 |
| 140 | Employee Benefits * | 20,308,381 | 10,963,911 | 21,679,554 | 5,884,168 | (15,795,386) |
| 140 | Contract Labor | 35,462 | 30,061 | 3,000 | 39,000 | 36,000 |
| 140 | Operating Supplies | 0 | 17 | 0 | 0 | 0 |
| 140 | Postage | 241 | 527 | 500 | 800 | 300 |
| 140 | Office Supplies | 2,529 | 1,969 | 2,500 | 2,500 | 0 |
| 140 | Insurance | 51,684 | 0 | 0 | 0 | 0 |
| 140 | Legal Fees | 59,669 | 25,953 | 140,000 | 100,000 | (40,000) |
| 140 | Personnel Training | 323,149 | 123,245 | 428,100 | 442,100 | 14,000 |
| 140 | Personnel Physicals | 12,697 | 3,579 | 37,000 | 15,000 | (22,000) |
| 140 | Other Professional Fees | 176,915 | 67,325 | 225,500 | 175,500 | (50,000) |
| 140 | Safety | 339 | 0 | 0 | 0 | 0 |
| 140 | Commuter Program | 191,865 | 1,877 | 260,000 | 150,000 | (110,000) |
| Total Human Resources | | 21,742,980 | 11,547,161 | 23,360,295 | 7,398,568 | (15,961,727) |
| Total Administration | | 26,124,742 | 13,740,413 | 28,432,974 | 13,758,420 | (14,674,554) |

* Paid time off reallocated to individual departments in FY 2021-22

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2022-23

Administration

| <u>Dept No</u> | <u>Expense Name</u> | FY 2019-20 Actual | FY 2020-21 Actual thru 12/31/20 | FY 2021-22 Proposed Budget | FY 2022-23 Proposed Budget | Incr/(Decr) |
|------------------------------|-------------------------|----------------------|---------------------------------------|----------------------------------|----------------------------------|----------------|
| Human Resources | | | | | | |
| 140 | Regular Labor | 557,182 | 311,669 | 569,500 | 592,600 | 23,100 |
| 140 | Overtime Labor | 22,867 | 17,029 | 20,000 | 20,000 | 0 |
| 140 | Employee Benefits | 20,308,381 | 10,963,911 | 5,884,168 | 6,084,192 | 200,024 |
| 140 | Contract Labor | 35,462 | 30,061 | 39,000 | 39,000 | 0 |
| 140 | Operating Supplies | 0 | 17 | 0 | 0 | 0 |
| 140 | Postage | 241 | 527 | 800 | 800 | 0 |
| 140 | Office Supplies | 2,529 | 1,969 | 2,500 | 2,500 | 0 |
| 140 | Insurance | 51,684 | 0 | 0 | 0 | 0 |
| 140 | Legal Fees | 59,669 | 25,953 | 100,000 | 100,000 | 0 |
| 140 | Personnel Training | 323,149 | 123,245 | 442,100 | 462,100 | 20,000 |
| 140 | Personnel Physicals | 12,697 | 3,579 | 15,000 | 15,000 | 0 |
| 140 | Other Professional Fees | 176,915 | 67,325 | 175,500 | 176,500 | 1,000 |
| 140 | Safety | 339 | 0 | 0 | 0 | 0 |
| 140 | Commuter Program | 191,865 | 1,877 | 150,000 | 220,000 | 70,000 |
| Total Human Resources | | 21,742,980 | 11,547,161 | 7,398,568 | 7,712,692 | 314,124 |
| Total Administration | | 26,124,742 | 13,740,413 | 13,758,420 | 14,401,894 | 643,474 |



FINANCE, TREASURY AND PROCUREMENT

OPERATING BUDGET SUMMARY

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 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 annual operating budget and preparation of the Comprehensive Annual Financial Report (CAFR). The Finance Department also oversees risk management claims and insurance issues as well as District security.

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 CAFR;
- 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,
- Explore financial modeling for acquisition, financing and construction of major projects.



FINANCE, TREASURY AND PROCUREMENT

OPERATING BUDGET SUMMARY

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.

RISK MANAGEMENT/INSURANCE

- Ensure the District has adequate insurance to appropriately safeguard assets; and,
- Manage the personal injury and property claims process and coordinate legal matters in a timely manner.

SECURITY

- Assess and implement measures to ensure the security of District employees, facilities and customers;
- Manage third-party security contractor relationships including monitoring and response to field and incident reports;
- Monitor and enhance alarm/security access systems for all District facilities;
- Respond to reported incidents to provide security assistance as required; and,
- Act as District liaison with law enforcement and federal security agencies.



FINANCE, TREASURY AND PROCUREMENT

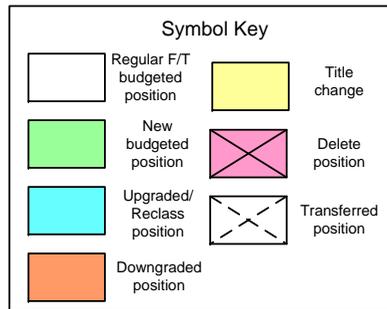
OPERATING BUDGET SUMMARY

PENSION/DEFERRED COMPENSATION

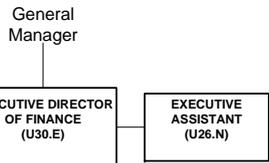
- Maintain and invest Pension Benefits Trust assets and report portfolio performance and recommendations to the Retirement Board;
- Evaluate and monitor Trust Advisor performance; recommend changes in advisory services as appropriate; review additional opportunities to optimize Pension Benefits Trust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

PURCHASING

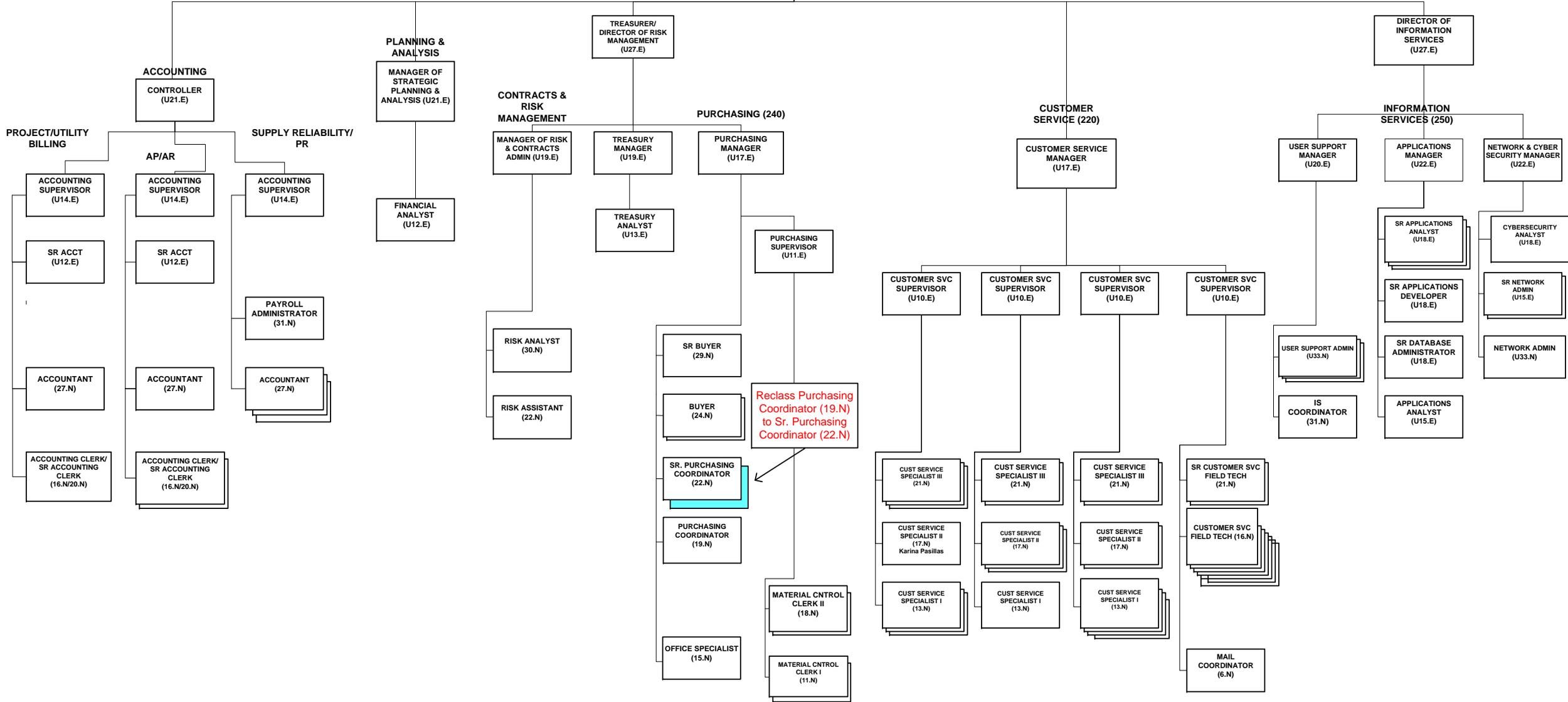
- Purchase materials, supplies and services in a timely manner with appropriate consideration given to quality and best pricing;
- Process all material/service requests timely and efficiently;
- Optimize Maximo system; maintain appropriate warehouse inventory and review/adjust slow moving inventory;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



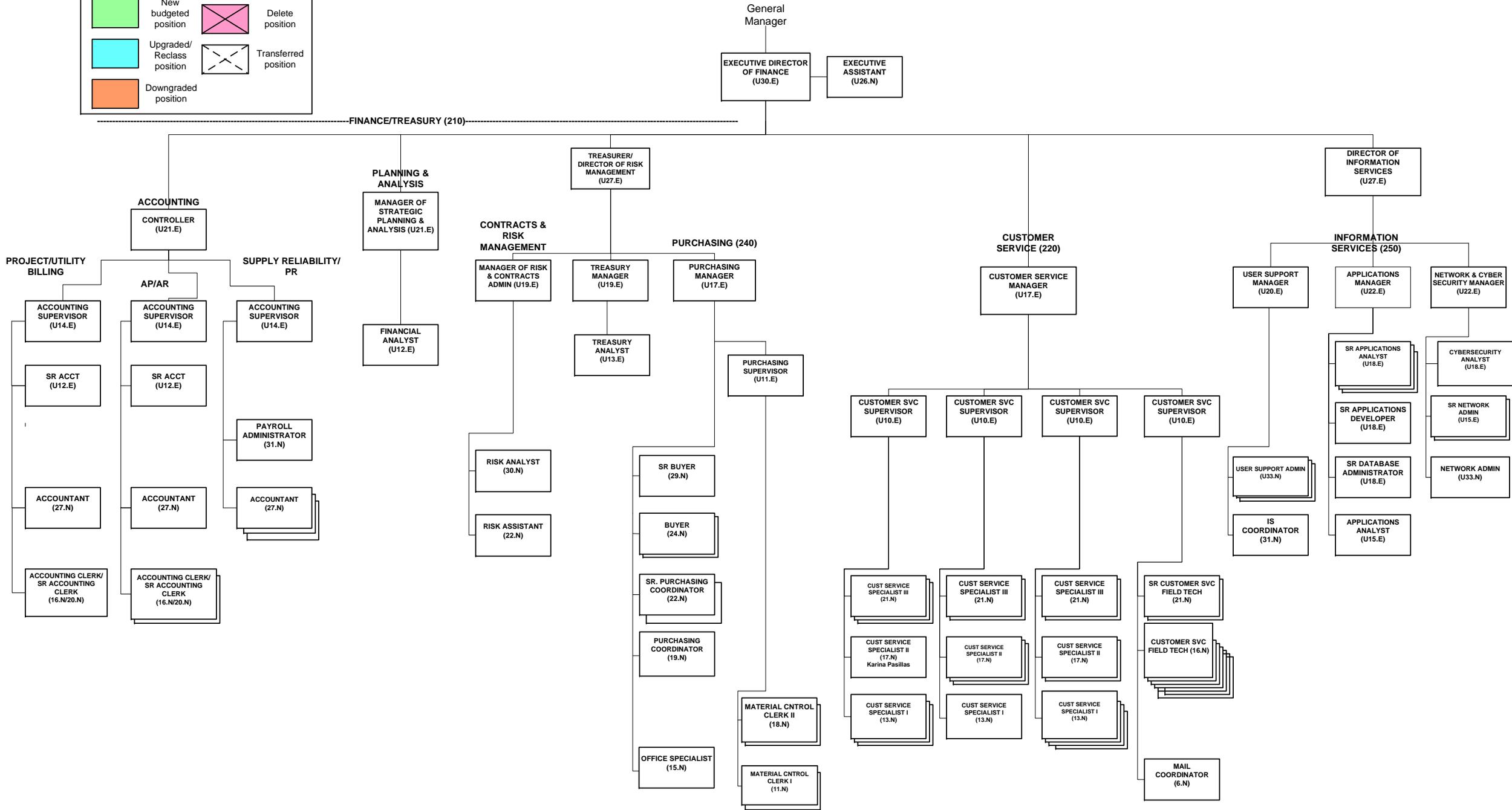
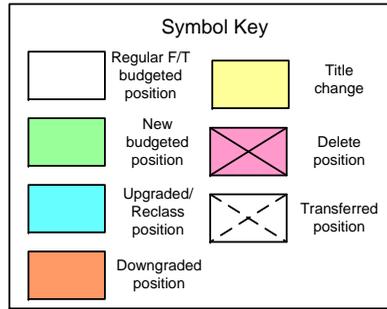
**IRVINE RANCH WATER DISTRICT
FINANCE AND ADMINISTRATION
FISCAL YEAR 2021-22**



FINANCE/TREASURY (210)



**IRVINE RANCH WATER DISTRICT
FINANCE AND ADMINISTRATION
FISCAL YEAR 2022-23**



Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2021-22

| Fin & Admin Svcs | | FY 2019-20 | FY 2020-21 | FY 2020-21 | FY 2021-22 | |
|-----------------------------------|----------------------------|------------|-------------------------|------------|--------------------|-------------|
| Dept No | Expense Name | Actual | Actual thru 12/31/20 | Budget | Proposed Budget | Incr/(Decr) |
| <u>Finance and Treasury</u> | | | | | | |
| 210 | Regular Labor | 2,601,955 | 1,293,059 | 2,416,712 | 2,450,900 | 34,188 |
| 210 | Overtime Labor | 2,446 | 3,391 | 18,100 | 5,000 | (13,100) |
| 210 | Employee Benefits | 461,516 | 217,749 | 358,750 | 1,800,200 | 1,441,450 |
| 210 | Contract Labor | 3,175 | 88,453 | 12,000 | 48,750 | 36,750 |
| 210 | Telecommunication | 1,497 | 878 | 0 | 0 | 0 |
| 210 | Operating Supplies | 21,579 | 19,851 | 1,000 | 27,000 | 26,000 |
| 210 | Printing | 4,262 | 3,011 | 83,300 | 5,000 | (78,300) |
| 210 | Postage | 5,657 | 2,395 | 6,700 | 6,700 | 0 |
| 210 | Permits, Licenses and Fees | 4,206 | 1,219 | 7,300 | 7,300 | 0 |
| 210 | Office Supplies | 52,176 | 6,511 | 7,400 | 7,500 | 100 |
| 210 | Insurance | 1,262,718 | 714,931 | 1,552,403 | 2,363,100 | 810,697 |
| 210 | Accounting Fees | 80,457 | 47,540 | 111,000 | 97,000 | (14,000) |
| 210 | Data Processing | 66,409 | 33,257 | 82,400 | 93,800 | 11,400 |
| 210 | Personnel Physicals | 0 | 28,742 | 0 | 0 | 0 |
| 210 | Personnel Training | 31,152 | 3,735 | 42,708 | 46,450 | 3,742 |
| 210 | Other Professional Fees | 289,045 | 188,516 | 251,450 | 276,252 | 24,802 |
| 210 | Equipment Usage | 2 | 0 | 0 | 0 | 0 |
| 210 | Collection Fees | 0 | 0 | 11,400 | 11,000 | (400) |
| 210 | Alarm and Patrol Services | 756,189 | 283,797 | 850,000 | 860,000 | 10,000 |
| Total Finance and Treasury | | 5,644,440 | 2,937,034 | 5,812,623 | 8,105,952 | 2,293,329 |

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2022-23

Fin & Admin Svcs

| <u>Dept No</u> | <u>Expense Name</u> | FY 2019-20 Actual | FY 2020-21 Actual thru 12/31/20 | FY 2021-22 Proposed Budget | FY 2022-23 Proposed Budget | Incr/(Decr) |
|-----------------------------------|----------------------------|----------------------|---------------------------------------|----------------------------------|----------------------------------|----------------|
| Finance and Treasury | | | | | | |
| 210 | Regular Labor | 2,601,955 | 1,293,059 | 2,450,900 | 2,558,400 | 107,500 |
| 210 | Overtime Labor | 2,446 | 3,391 | 5,000 | 5,000 | 0 |
| 210 | Employee Benefits | 461,516 | 217,749 | 1,800,200 | 1,894,700 | 94,500 |
| 210 | Contract Labor | 3,175 | 88,453 | 48,750 | 52,500 | 3,750 |
| 210 | Telecommunication | 1,497 | 878 | 0 | 0 | 0 |
| 210 | Operating Supplies | 21,579 | 19,851 | 27,000 | 27,000 | 0 |
| 210 | Printing | 4,262 | 3,011 | 5,000 | 25,160 | 20,160 |
| 210 | Postage | 5,657 | 2,395 | 6,700 | 67,670 | 60,970 |
| 210 | Permits, Licenses and Fees | 4,206 | 1,219 | 7,300 | 4,300 | (3,000) |
| 210 | Office Supplies | 52,176 | 6,511 | 7,500 | 7,720 | 220 |
| 210 | Insurance | 1,262,718 | 714,931 | 2,363,100 | 2,768,324 | 405,224 |
| 210 | Accounting Fees | 80,457 | 47,540 | 97,000 | 100,000 | 3,000 |
| 210 | Data Processing | 66,409 | 33,257 | 93,800 | 96,620 | 2,820 |
| 210 | Personnel Physicals | 0 | 28,742 | 0 | 0 | 0 |
| 210 | Personnel Training | 31,152 | 3,735 | 46,450 | 50,050 | 3,600 |
| 210 | Other Professional Fees | 289,045 | 188,516 | 276,252 | 281,388 | 5,136 |
| 210 | Equipment Usage | 2 | 0 | 0 | 0 | 0 |
| 210 | Collection Fees | 0 | 0 | 11,000 | 11,000 | 0 |
| 210 | Alarm and Patrol Services | 756,189 | 283,797 | 860,000 | 860,000 | 0 |
| Total Finance and Treasury | | 5,644,440 | 2,937,034 | 8,105,952 | 8,809,832 | 703,880 |

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2021-22

| Fin & Admin Svcs | | FY 2019-20 | FY 2020-21 | FY 2020-21 | FY 2021-22 | |
|------------------|-------------------------|------------|-------------------------|------------|--------------------|-------------|
| Dept No | Expense Name | Actual | Actual thru 12/31/20 | Budget | Proposed Budget | Incr/(Decr) |
| Purchasing | | | | | | |
| 240 | Regular Labor | 788,717 | 449,562 | 898,333 | 889,700 | (8,633) |
| 240 | Overtime Labor | 59,547 | 27,683 | 44,400 | 51,000 | 6,600 |
| 240 | Employee Benefits | 140,957 | 49,858 | 133,819 | 636,900 | 503,081 |
| 240 | Contract Labor | 52,121 | 0 | 0 | 0 | 0 |
| 240 | Operating Supplies | 145,228 | 82,572 | 159,900 | 222,400 | 62,500 |
| 240 | Printing | 10,167 | 3,542 | 10,400 | 10,400 | 0 |
| 240 | Postage | 3,795 | 3,094 | 6,000 | 8,000 | 2,000 |
| 240 | Office Supplies | 9,399 | 3,685 | 12,400 | 10,000 | (2,400) |
| 240 | Duplicating Equipment | 107,803 | 59,767 | 185,000 | 150,000 | (35,000) |
| 240 | Equipment Rental | 14,021 | 6,143 | 20,000 | 17,000 | (3,000) |
| 240 | Rep & Maint IRWD | 0 | 145 | 0 | 0 | 0 |
| 240 | Accounting Fees | 50 | 0 | 0 | 0 | 0 |
| 240 | Personnel Training | 6,140 | 0 | 13,000 | 16,000 | 3,000 |
| 240 | Other Professional Fees | 26,524 | 6,217 | 2,000 | 2,000 | 0 |
| 240 | Equipment Usage | 0 | 0 | 0 | 0 | 0 |
| Total Purchasing | | 1,364,469 | 692,267 | 1,485,252 | 2,013,400 | 528,148 |

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2022-23

Fin & Admin Svcs

| <u>Dept No</u> | <u>Expense Name</u> | FY 2019-20 Actual | FY 2020-21 Actual thru 12/31/20 | FY 2021-22 Proposed Budget | FY 2022-23 Proposed Budget | Incr/(Decr) |
|-------------------------|-------------------------|----------------------|---------------------------------------|----------------------------------|----------------------------------|---------------|
| Purchasing | | | | | | |
| 240 | Regular Labor | 788,717 | 449,562 | 889,700 | 928,000 | 38,300 |
| 240 | Overtime Labor | 59,547 | 27,683 | 51,000 | 55,000 | 4,000 |
| 240 | Employee Benefits | 140,957 | 49,858 | 636,900 | 668,500 | 31,600 |
| 240 | Contract Labor | 52,121 | 0 | 0 | 0 | 0 |
| 240 | Operating Supplies | 145,228 | 82,572 | 222,400 | 227,400 | 5,000 |
| 240 | Printing | 10,167 | 3,542 | 10,400 | 11,000 | 600 |
| 240 | Postage | 3,795 | 3,094 | 8,000 | 9,000 | 1,000 |
| 240 | Office Supplies | 9,399 | 3,685 | 10,000 | 10,000 | 0 |
| 240 | Duplicating Equipment | 107,803 | 59,767 | 150,000 | 150,000 | 0 |
| 240 | Equipment Rental | 14,021 | 6,143 | 17,000 | 17,000 | 0 |
| 240 | Rep & Maint IRWD | 0 | 145 | 0 | 0 | 0 |
| 240 | Accounting Fees | 50 | 0 | 0 | 0 | 0 |
| 240 | Personnel Training | 6,140 | 0 | 16,000 | 16,000 | 0 |
| 240 | Other Professional Fees | 26,524 | 6,217 | 2,000 | 2,000 | 0 |
| 240 | Equipment Usage | 0 | 0 | 0 | 0 | 0 |
| Total Purchasing | | 1,364,469 | 692,267 | 2,013,400 | 2,093,900 | 80,500 |



CUSTOMER SERVICE

OPERATING BUDGET SUMMARY

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 and mail distribution services.

Major Goals

CUSTOMER SERVICE

- Deliver exceptional customer service both internally and externally;
- 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;
- Coordinate and process all meter reads to ensure accurate billing;
- 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;
- Provide customers with an accurate bill that is easy to read;
- 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; and,
- Maintain accurate customer data to ensure timely billing and notification.

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2021-22

| Fin & Admin Svcs | | FY 2019-20 | FY 2020-21 | FY 2020-21 | FY 2021-22 | |
|-------------------------------|-------------------------|------------|-------------------------|------------|--------------------|-------------|
| <u>Dept No</u> | <u>Expense Name</u> | Actual | Actual thru 12/31/20 | Budget | Proposed Budget | Incr/(Decr) |
| <u>Customer Service</u> | | | | | | |
| 220 | Regular Labor | 2,020,307 | 1,062,142 | 2,022,900 | 2,145,700 | 122,800 |
| 220 | Overtime Labor | 66,789 | 6,788 | 60,000 | 51,000 | (9,000) |
| 220 | Employee Benefits | 204,249 | 82,262 | 300,411 | 1,520,000 | 1,219,589 |
| 220 | Contract Labor | 233,525 | 43,435 | 251,000 | 154,399 | (96,601) |
| 220 | Telecommunication | 85 | 0 | 0 | 0 | 0 |
| 220 | Operating Supplies | 2,859 | 3,089 | 15,000 | 0 | (15,000) |
| 220 | Printing | 168,599 | 98,901 | 176,800 | 220,000 | 43,200 |
| 220 | Postage | 482,398 | 307,199 | 645,000 | 394,000 | (251,000) |
| 220 | Office Supplies | 7,110 | 3,576 | 7,700 | 7,475 | (225) |
| 220 | Equipment Rental | 10,604 | 10,266 | 38,000 | 12,800 | (25,200) |
| 220 | Rep & Maint IRWD | 735 | 74 | 0 | 0 | 0 |
| 220 | Personnel Training | 2,805 | 0 | 12,500 | 12,500 | 0 |
| 220 | Other Professional Fees | 1,770 | 147 | 2,800 | 337,500 | 334,700 |
| 220 | Collection Fees | 1,197 | 0 | 2,000 | 1,000 | (1,000) |
| 220 | Contract Meter Reading | 1,466,186 | 622,442 | 1,550,000 | 1,550,000 | 0 |
| 220 | Conservation | (2) | 0 | 2 | 0 | (2) |
| Total Customer Service | | 4,669,216 | 2,240,320 | 5,084,113 | 6,406,374 | 1,322,261 |

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2022-23

Fin & Admin Srvcs

| <u>Dept No</u> | <u>Expense Name</u> | FY 2019-20 Actual | FY 2020-21 Actual thru 12/31/20 | FY 2021-22 Proposed Budget | FY 2022-23 Proposed Budget | Incr/(Decr) |
|-------------------------------|-------------------------|----------------------|---------------------------------------|----------------------------------|----------------------------------|----------------|
| <u>Customer Service</u> | | | | | | |
| 220 | Regular Labor | 2,020,307 | 1,062,142 | 2,145,700 | 2,250,300 | 104,600 |
| 220 | Overtime Labor | 66,789 | 6,788 | 51,000 | 60,000 | 9,000 |
| 220 | Employee Benefits | 204,249 | 82,262 | 1,520,000 | 1,607,500 | 87,500 |
| 220 | Contract Labor | 233,525 | 43,435 | 154,399 | 194,000 | 39,601 |
| 220 | Telecommunication | 85 | 0 | 0 | 0 | 0 |
| 220 | Operating Supplies | 2,859 | 3,089 | 0 | 0 | 0 |
| 220 | Printing | 168,599 | 98,901 | 220,000 | 220,000 | 0 |
| 220 | Postage | 482,398 | 307,199 | 394,000 | 412,000 | 18,000 |
| 220 | Office Supplies | 7,110 | 3,576 | 7,475 | 7,700 | 225 |
| 220 | Equipment Rental | 10,604 | 10,266 | 12,800 | 12,800 | 0 |
| 220 | Rep & Maint IRWD | 735 | 74 | 0 | 0 | 0 |
| 220 | Personnel Training | 2,805 | 0 | 12,500 | 12,500 | 0 |
| 220 | Other Professional Fees | 1,770 | 147 | 337,500 | 337,800 | 300 |
| 220 | Collection Fees | 1,197 | 0 | 1,000 | 2,000 | 1,000 |
| 220 | Contract Meter Reading | 1,466,186 | 622,442 | 1,550,000 | 1,575,000 | 25,000 |
| 220 | Conservation | (2) | 0 | 0 | 0 | 0 |
| Total Customer Service | | 4,669,216 | 2,240,320 | 6,406,374 | 6,691,600 | 285,226 |



INFORMATION SERVICES

OPERATING BUDGET SUMMARY

Program Description

The mission of the Information Services Department is to research, develop, integrate and support reliable, secure, cost effective information systems that improve and enhance current and future business requirements of customers and provide a high level of customer satisfaction. The Information Services Department provides implementation, management, security and support for the District's information systems, voice and data communications systems.

Major Goals

INFORMATION SERVICES

- Provide helpful, courteous and timely support to all District staff;
- Provide internal and external software training that meets the needs of District staff;
- Provide a reliable network of servers, personal computers, mobile devices, printers and software applications that meet the needs of District staff;
- Provide reliable voice, data and wireless communications services;
- Implement new and improve existing software applications to meet the requirements of District staff;
- Ensure District IS assets, including network and applications, are maintained to current cybersecurity standards;
- Pursue and implement appropriate transitions of applications to the cloud;
- Complete scheduled hardware and software upgrades to District servers, personal computers, mobile devices, printers, network equipment and software applications;
- Implement the technical upgrade of Oracle Customer Care and Billing software;
- Implement the technical upgrade to the cloud of Oracle Business Intelligence Enterprise Edition (OBIEE);
- Migrate Micro Focus Open Enterprise Server to Microsoft Active Directory, SharePoint and OneDrive;
- Implement recommendations from the Cyber Security Risk Assessment and Response Plan;
- Implement 8x8 cloud-based Unified Communications (UC) telephony application, including contact center; and,
- Monitor industry trends for best practices and opportunities for improved system related technologies.

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2021-22

| Fin & Admin Svcs | | FY 2019-20 | FY 2020-21 | FY 2020-21 | FY 2021-22 | |
|-----------------------------------|-------------------------|------------|-------------------------|------------|--------------------|-------------|
| Dept No | Expense Name | Actual | Actual thru 12/31/20 | Budget | Proposed Budget | Incr/(Decr) |
| Information Services | | | | | | |
| 250 | Regular Labor | 2,055,646 | 1,108,499 | 1,764,538 | 1,867,500 | 102,962 |
| 250 | Overtime Labor | 14,454 | 5,051 | 30,000 | 15,000 | (15,000) |
| 250 | Employee Benefits | 364,545 | 117,121 | 261,249 | 1,331,200 | 1,069,951 |
| 250 | Contract Labor | 274,469 | 19,913 | 245,000 | 235,000 | (10,000) |
| 250 | Telecommunication | 606,693 | 331,709 | 641,100 | 756,000 | 114,900 |
| 250 | Operating Supplies | 33 | 30 | 0 | 0 | 0 |
| 250 | Postage | 185 | 0 | 0 | 0 | 0 |
| 250 | Office Supplies | 0 | 26 | 1,000 | 1,000 | 0 |
| 250 | Rep & Maint IRWD | 233,276 | 94,222 | 307,300 | 261,300 | (46,000) |
| 250 | Data Processing | 3,080,105 | 1,754,740 | 3,141,800 | 3,948,100 | 806,300 |
| 250 | Personnel Training | 18,457 | 19,209 | 61,500 | 62,500 | 1,000 |
| 250 | Other Professional Fees | 67,292 | 24,272 | 220,000 | 390,000 | 170,000 |
| 250 | Equipment Usage | 2 | 0 | 0 | 0 | 0 |
| 250 | Mileage Reimbursement | 13 | 0 | 0 | 0 | 0 |
| 250 | Computer Backup Storage | 1,568 | 1,347 | 12,000 | 0 | (12,000) |
| Total Information Services | | 6,716,738 | 3,476,138 | 6,685,487 | 8,867,600 | 2,182,113 |
| Total Fin & Admin Svcs | | 18,394,863 | 9,345,759 | 19,067,475 | 25,393,326 | 6,325,851 |

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2022-23

| Fin & Admin Svcs | | FY 2019-20 | FY 2020-21 | FY 2021-22 | FY 2022-23 | |
|-----------------------------------|-------------------------|-------------------|-------------------------|--------------------|--------------------|------------------|
| <u>Dept No</u> | <u>Expense Name</u> | Actual | Actual thru 12/31/20 | Proposed Budget | Proposed Budget | Incr/(Decr) |
| <u>Information Services</u> | | | | | | |
| 250 | Regular Labor | 2,055,646 | 1,108,499 | 1,867,500 | 1,935,000 | 67,500 |
| 250 | Overtime Labor | 14,454 | 5,051 | 15,000 | 15,000 | 0 |
| 250 | Employee Benefits | 364,545 | 117,121 | 1,331,200 | 1,386,600 | 55,400 |
| 250 | Contract Labor | 274,469 | 19,913 | 235,000 | 245,000 | 10,000 |
| 250 | Telecommunication | 606,693 | 331,709 | 756,000 | 755,000 | (1,000) |
| 250 | Operating Supplies | 33 | 30 | 0 | 0 | 0 |
| 250 | Postage | 185 | 0 | 0 | 0 | 0 |
| 250 | Office Supplies | 0 | 26 | 1,000 | 1,000 | 0 |
| 250 | Rep & Maint IRWD | 233,276 | 94,222 | 261,300 | 266,700 | 5,400 |
| 250 | Data Processing | 3,080,105 | 1,754,740 | 3,948,100 | 3,982,400 | 34,300 |
| 250 | Personnel Training | 18,457 | 19,209 | 62,500 | 67,500 | 5,000 |
| 250 | Other Professional Fees | 67,292 | 24,272 | 390,000 | 240,000 | (150,000) |
| 250 | Equipment Usage | 2 | 0 | 0 | 0 | 0 |
| 250 | Mileage Reimbursement | 13 | 0 | 0 | 0 | 0 |
| 250 | Computer Backup Storage | 1,568 | 1,347 | 0 | 0 | 0 |
| Total Information Services | | 6,716,738 | 3,476,138 | 8,867,600 | 8,894,200 | 26,600 |
| Total Fin & Admin Svcs | | 18,394,863 | 9,345,759 | 25,393,326 | 26,489,532 | 1,096,206 |



ENGINEERING

OPERATING BUDGET SUMMARY

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.

Planning: The Planning and Geographic Information Systems (GIS) 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 Planning group is also responsible for managing the District's real property and rights of way.

Capital Projects: The Capital Projects group designs and manages construction of major water, sewage and recycled water treatment, distribution and transmission facilities necessary to provide the quality and reliability of service to existing and future customers of the District. The Capital Projects group is responsible for the expansion and improvement of water and sewage treatment facilities; the design and construction of wells, pipelines, storage facilities, pump stations, and sewage lift stations; and the design and construction of integration facilities for areas acquired through agency consolidations.

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 Development Services 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 Inspection Services group is also responsible for coordinating specialized construction support services including surveying and geotechnical testing and inspection.



ENGINEERING

OPERATING BUDGET SUMMARY

Operations Support: The Operations Support group is responsible for providing engineering support to other District departments. The Operations Support group generally focuses on the expansion and 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.

Major Goals

PLANNING

- Implement Capital Improvement Program Asset Management processes and procedures;
- Integrate the Replacement Planning Model with the Financial and Engineering programs;
- Provide Interagency technical support;
- Groundwater Workplan Update; and
- Expand GIS based applications and cloud infrastructure.

CAPITAL PROJECTS

- LAWRP Modernization Phase 1 design;
- Syphon Reservoir Improvements design;
- Santiago Creek Dam Outlet Tower and Spillway Replacement design;
- SAC Baker Pipeline Relocation design and construction;
- Zone A to Rattlesnake Reservoir Pump Station construction;
- Primary Disinfection Facility Sodium Hypochlorite Storage and Feed construction;
- Santiago Canyon Fleming Reservoir and Pump Station design and construction;
- Lake Forest Zone B-C Recycled Water Pump Station design and construction;
- Well OPA-1 PFAS Treatment design and construction; and
- Well ET-1 PFAS Treatment design and construction.

DEVELOPMENT SERVICES

- Heritage Fields Infrastructure design and construction;
- Orchard Hills Infrastructure design and construction;
- Innovation Park Infrastructure design and construction;
- Nakase Infrastructure design and construction;
- Tustin Legacy Infrastructure design and construction; and
- Irvine Business Complex Redevelopment Infrastructure design and construction.



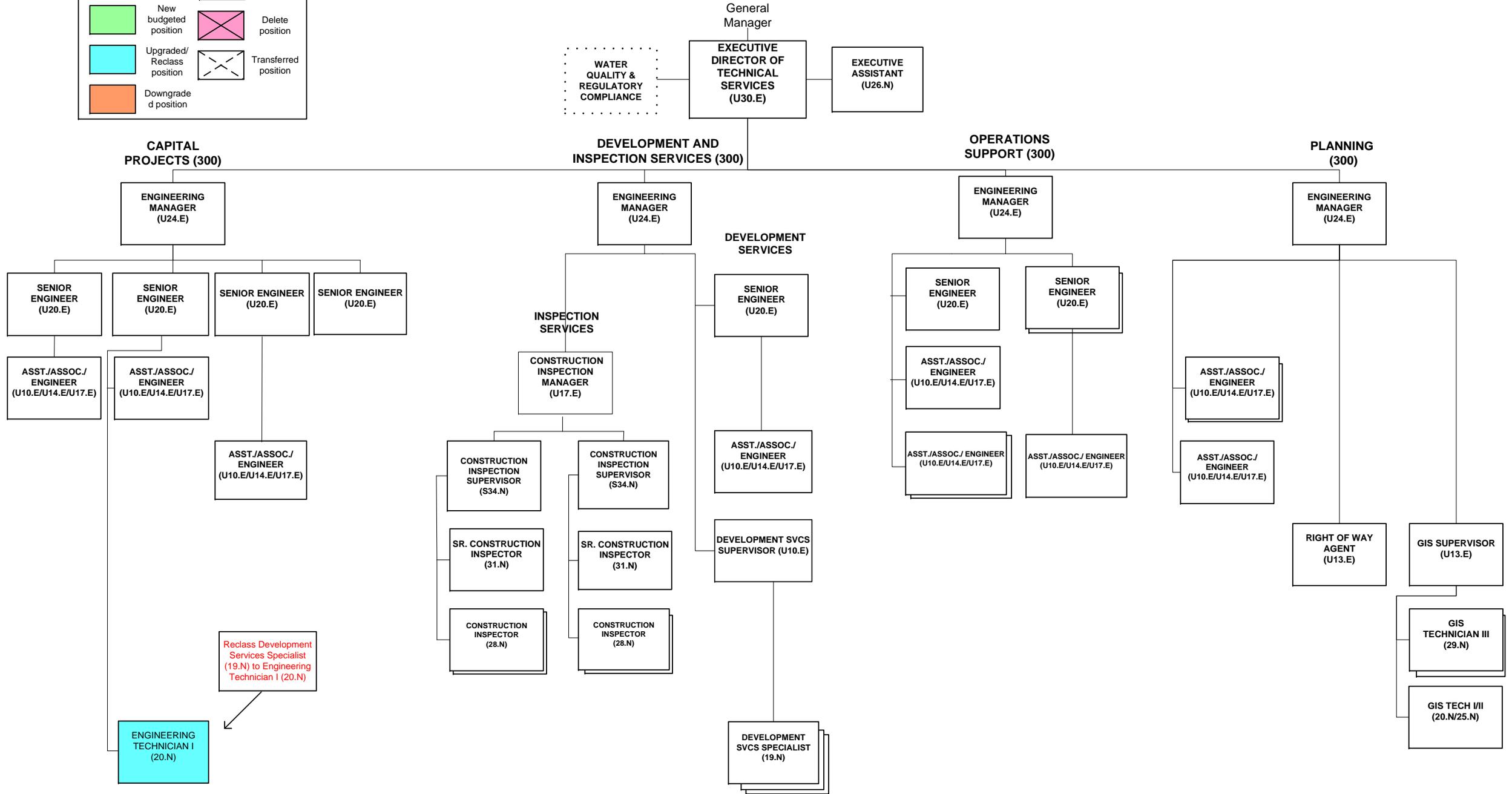
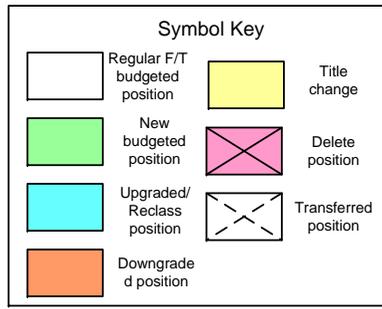
ENGINEERING

OPERATING BUDGET SUMMARY

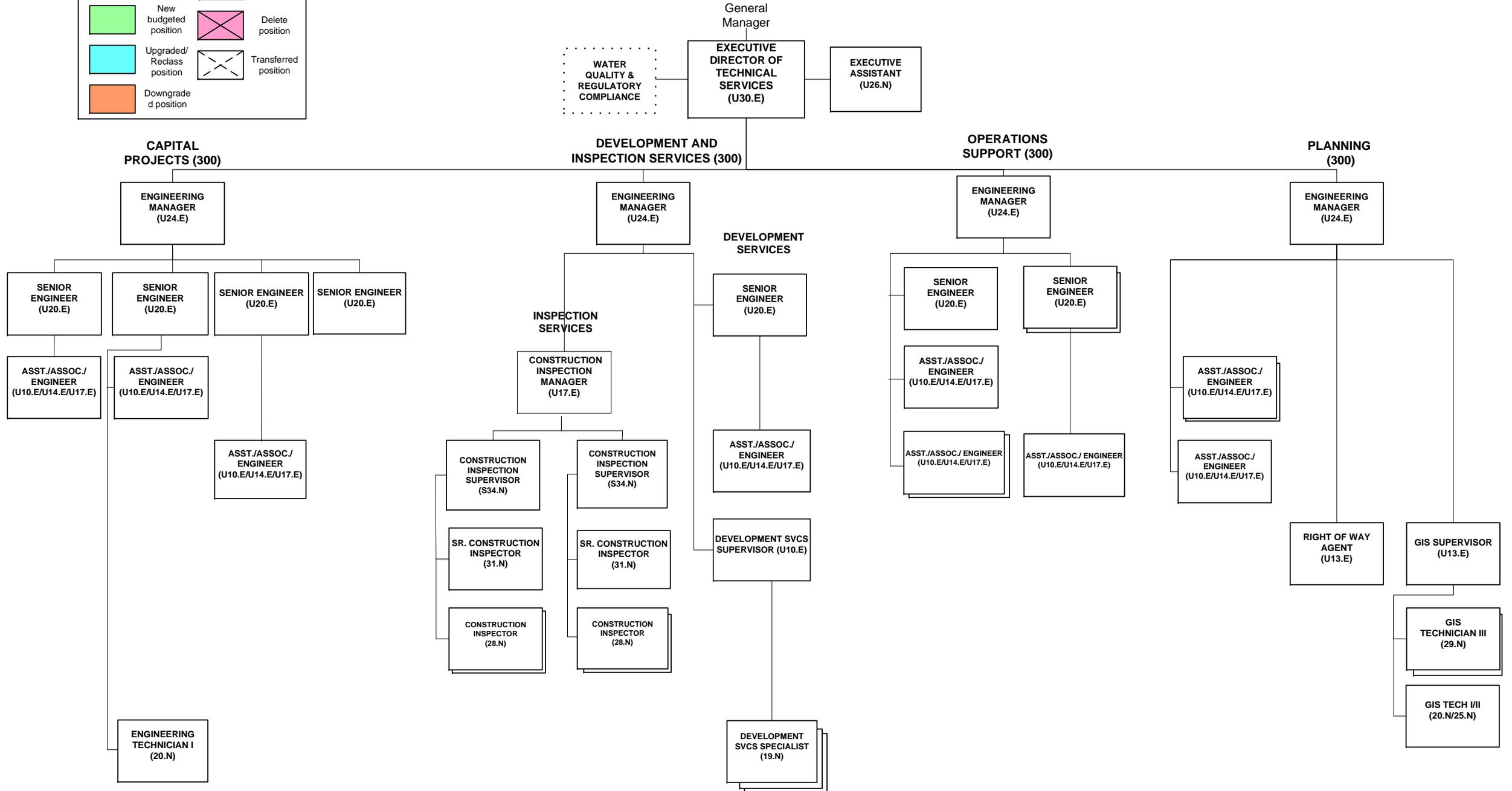
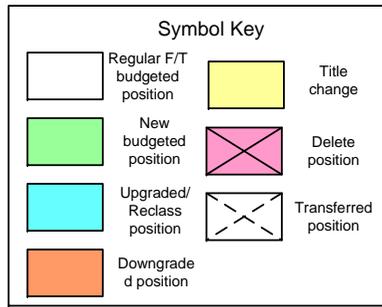
OPERATIONS SUPPORT

- Santiago Canyon Area Pump Stations Improvements construction;
- Operations Center CNG, Diesel and Gasoline Fueling Facility design and construction;
- Emergency Fuel Storage design and construction;
- Turtle Rock Reservoir Management System design and construction;
- MWRP Tertiary Treatment Facility Rehabilitation design and construction;
- Operations Center Warehouse Expansion design and construction;
- Well Rehabilitation design and construction;
- Sewer Siphons Improvements construction;
- San Joaquin Recycled Water Reservoir Filtration construction;
- Crystal Cove Recycled Water PRV and Pipeline Improvements design and construction;
- Woodbridge Recycled Water Distribution Pipeline Replacement design and construction;
- Lake Forest Woods Sewer Access Improvements design and construction; and
- Evaluate process control and water quality monitoring data to assess, correct or recommend performance improvement of membrane treatment facilities.

**IRVINE RANCH WATER DISTRICT
ENGINEERING
FISCAL YEAR 2021-22**



**IRVINE RANCH WATER DISTRICT
ENGINEERING
FISCAL YEAR 2022-23**



Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2021-22

| Engineering | | FY 2019-20 | FY 2020-21 | FY 2020-21 | FY 2021-22 | |
|--------------------------|----------------------------|------------|-------------------------|------------|--------------------|-------------|
| Dept No | Expense Name | Actual | Actual thru 12/31/20 | Budget | Proposed Budget | Incr/(Decr) |
| Engineering | | | | | | |
| 300 | Regular Labor | 4,580,299 | 2,325,689 | 4,432,110 | 4,488,100 | 55,990 |
| 300 | Overtime Labor | 143,626 | 49,254 | 204,000 | 110,000 | (94,000) |
| 300 | Employee Benefits | 811,860 | 387,553 | 657,162 | 3,252,800 | 2,595,638 |
| 300 | Contract Labor | 294,543 | 97,547 | 245,000 | 170,000 | (75,000) |
| 300 | Operating Supplies | 983 | 2,244 | 5,800 | 5,800 | 0 |
| 300 | Printing | 14,621 | 7,400 | 8,000 | 6,000 | (2,000) |
| 300 | Postage | 2,218 | 745 | 3,000 | 2,000 | (1,000) |
| 300 | Permits, Licenses and Fees | 0 | 0 | 2,000 | 2,000 | 0 |
| 300 | Office Supplies | 7,351 | 1,805 | 9,900 | 9,500 | (400) |
| 300 | Rep & Maint IRWD | 170 | 0 | 0 | 0 | 0 |
| 300 | Engineering Fees | 11,287 | 204,778 | 112,000 | 232,000 | 120,000 |
| 300 | Personnel Training | 15,523 | 3,735 | 29,000 | 20,600 | (8,400) |
| 300 | Other Professional Fees | 5,041 | 359 | 10,000 | 8,000 | (2,000) |
| 300 | Equipment Usage | 1 | 0 | 0 | 0 | 0 |
| 300 | Mileage Reimbursement | 95 | 0 | 0 | 0 | 0 |
| 300 | Commuter Program | (457) | 0 | 0 | 0 | 0 |
| Total Engineering | | 5,887,161 | 3,081,109 | 5,717,972 | 8,306,800 | 2,588,828 |
| Total Engineering | | 5,887,161 | 3,081,109 | 5,717,972 | 8,306,800 | 2,588,828 |

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2022-23

| Engineering | | FY 2019-20 Actual | FY 2020-21 Actual thru 12/31/20 | FY 2021-22 Proposed Budget | FY 2022-23 Proposed Budget | Incr/(Decr) |
|--------------------------|----------------------------|----------------------|---------------------------------------|----------------------------------|----------------------------------|----------------|
| <u>Dept No</u> | <u>Expense Name</u> | | | | | |
| Engineering | | | | | | |
| 300 | Regular Labor | 4,580,299 | 2,325,689 | 4,488,100 | 4,664,000 | 175,900 |
| 300 | Overtime Labor | 143,626 | 49,254 | 110,000 | 120,000 | 10,000 |
| 300 | Employee Benefits | 811,860 | 387,553 | 3,252,800 | 3,410,300 | 157,500 |
| 300 | Contract Labor | 294,543 | 97,547 | 170,000 | 170,000 | 0 |
| 300 | Operating Supplies | 983 | 2,244 | 5,800 | 5,800 | 0 |
| 300 | Printing | 14,621 | 7,400 | 6,000 | 6,000 | 0 |
| 300 | Postage | 2,218 | 745 | 2,000 | 2,000 | 0 |
| 300 | Permits, Licenses and Fees | 0 | 0 | 2,000 | 2,000 | 0 |
| 300 | Office Supplies | 7,351 | 1,805 | 9,500 | 9,500 | 0 |
| 300 | Rep & Maint IRWD | 170 | 0 | 0 | 0 | 0 |
| 300 | Engineering Fees | 11,287 | 204,778 | 232,000 | 82,000 | (150,000) |
| 300 | Personnel Training | 15,523 | 3,735 | 20,600 | 28,600 | 8,000 |
| 300 | Other Professional Fees | 5,041 | 359 | 8,000 | 10,000 | 2,000 |
| 300 | Equipment Usage | 1 | 0 | 0 | 0 | 0 |
| 300 | Mileage Reimbursement | 95 | 0 | 0 | 0 | 0 |
| 300 | Commuter Program | (457) | 0 | 0 | 0 | 0 |
| Total Engineering | | 5,887,161 | 3,081,109 | 8,306,800 | 8,510,200 | 203,400 |
| Total Engineering | | 5,887,161 | 3,081,109 | 8,306,800 | 8,510,200 | 203,400 |



WATER QUALITY and REGULATORY COMPLIANCE

OPERATING BUDGET SUMMARY

Program Description

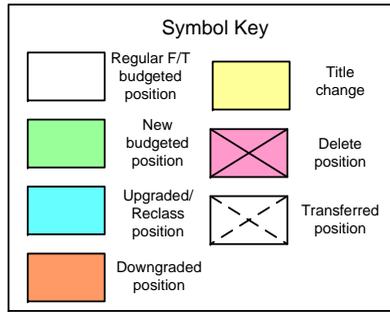
The Water Quality and Regulatory Compliance Department provides laboratory and compliance related support to the operations and maintenance of the domestic and recycled water distribution, sewage collection systems, treatment facilities, and biosolids and energy recovery facilities. The department provides 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 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 and to advocate on behalf of the District.

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, and implement the newly adopted standard before the compliance date;
- Implement automation in compliance and process monitoring, laboratory processes, data reporting, quality control measures, staff training, and reporting programs;
- Provide compliance oversight and assistance to other departments, as needed.
- 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;
- Communicate, work collaboratively and provide training on these requirements to appropriate staff and leadership across the District;
- 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.

**IRVINE RANCH WATER DISTRICT
WATER QUALITY & REGULATORY COMPLIANCE
FISCAL YEAR 2021-22**



Exec Director of Technical Services

DIRECTOR WATER QUALITY & REGULATORY COMPLIANCE (U27.E)

EXECUTIVE SECRETARY (U22.N)

WATER QUALITY (600)

QA/QC COMPLIANCE (600)

REGULATORY COMPLIANCE (650)

WATER QUALITY MANAGER (U18.E)

REGULATORY COMPLIANCE MANAGER (U18.E)

ORGANIC CHEMISTRY

INORGANIC CHEMISTRY

MICROBIOLOGY

LABORATORY SUPERVISOR (U15.E)

LABORATORY SUPERVISOR (U15.E)

LABORATORY SUPERVISOR (U15.E)

QA/QC COMPLIANCE ADMINISTRATOR (U14.E)

WATER MONITORING SUPERVISOR (S34.N)

SR. REGULATORY COMPLIANCE ADMINISTRATOR (U15.E)

SR SCIENTIST (32.N)

REGULATORY COMPLIANCE ADMINISTRATOR (U12.E)

SR SCIENTIST (32.N)

SR SCIENTIST (32.N)

SR SCIENTIST (32.N)

SCIENTIST (28.N)

SCIENTIST (28.N)

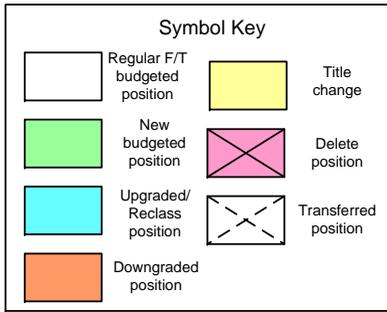
SCIENTIST (28.N)

SCIENTIST (28.N)

New Budgeted Position

New Budgeted Position

**IRVINE RANCH WATER DISTRICT
WATER QUALITY & REGULATORY COMPLIANCE
FISCAL YEAR 2022-23**



Exec Director of Technical Services

DIRECTOR WATER QUALITY & REGULATORY COMPLIANCE (U27.E)

EXECUTIVE SECRETARY (U22.N)

WATER QUALITY (600)

QA/QC COMPLIANCE (600)

REGULATORY COMPLIANCE (650)

WATER QUALITY MANAGER (U18.E)

REGULATORY COMPLIANCE MANAGER (U18.E)

ORGANIC CHEMISTRY

INORGANIC CHEMISTRY

MICROBIOLOGY

LABORATORY SUPERVISOR (U15.E)

LABORATORY SUPERVISOR (U15.E)

LABORATORY SUPERVISOR (U15.E)

QA/QC COMPLIANCE ADMINISTRATOR (U14.E)

WATER MONITORING SUPERVISOR (S34.N)

SR. REGULATORY COMPLIANCE ADMINISTRATOR (U15.E)

SR SCIENTIST (32.N)

SR SCIENTIST (32.N)

SR SCIENTIST (32.N)

SR SCIENTIST (32.N)

REGULATORY COMPLIANCE ADMINISTRATOR (U12.E)

SCIENTIST (28.N)

SCIENTIST (28.N)

SCIENTIST (28.N)

SCIENTIST (28.N)

New Budgeted Position

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2021-22

| Wtr Quality & Compliance | | FY 2019-20 Actual | FY 2020-21 Actual thru 12/31/20 | FY 2020-21 Budget | FY 2021-22 Proposed Budget | Incr/(Decr) |
|----------------------------|----------------------------|----------------------|---------------------------------------|----------------------|----------------------------------|------------------|
| <u>Dept No</u> | <u>Expense Name</u> | | | | | |
| <u>Water Quality</u> | | | | | | |
| 600 | Regular Labor | 1,879,695 | 928,592 | 1,997,929 | 1,981,000 | (16,929) |
| 600 | Overtime Labor | 39,712 | 20,707 | 36,350 | 35,835 | (515) |
| 600 | Employee Benefits | 333,493 | 113,442 | 296,712 | 1,437,500 | 1,140,788 |
| 600 | Contract Labor | 189,035 | 120,814 | 128,100 | 148,012 | 19,912 |
| 600 | Operating Supplies | 505,924 | 195,588 | 496,460 | 474,700 | (21,760) |
| 600 | Postage | 539 | 582 | 1,115 | 0 | (1,115) |
| 600 | Permits, Licenses and Fees | 16,561 | 16,605 | 19,200 | 13,500 | (5,700) |
| 600 | Office Supplies | 3,792 | 1,406 | 4,000 | 0 | (4,000) |
| 600 | Rep & Maint IRWD | 224,578 | 119,655 | 271,500 | 203,020 | (68,480) |
| 600 | Engineering Fees | 194,388 | 127,318 | 236,400 | 412,800 | 176,400 |
| 600 | Personnel Training | 16,162 | 2,980 | 41,000 | 41,000 | 0 |
| 600 | Other Professional Fees | 4,680 | 384 | 25,100 | 26,141 | 1,041 |
| 600 | Mileage Reimbursement | 7 | 0 | 0 | 0 | 0 |
| 600 | Safety | 6,787 | 1,250 | 8,600 | 11,000 | 2,400 |
| Total Water Quality | | 3,415,353 | 1,649,324 | 3,562,466 | 4,784,508 | 1,222,042 |

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2022-23

Wtr Quality & Compliance

| <u>Dept No</u> | <u>Expense Name</u> | FY 2019-20 Actual | FY 2020-21 Actual thru 12/31/20 | FY 2021-22 Proposed Budget | FY 2022-23 Proposed Budget | Incr/(Decr) |
|----------------------------|----------------------------|----------------------|---------------------------------------|----------------------------------|----------------------------------|----------------|
| Water Quality | | | | | | |
| 600 | Regular Labor | 1,879,695 | 928,592 | 1,981,000 | 2,153,200 | 172,200 |
| 600 | Overtime Labor | 39,712 | 20,707 | 35,835 | 36,545 | 710 |
| 600 | Employee Benefits | 333,493 | 113,442 | 1,437,500 | 1,570,500 | 133,000 |
| 600 | Contract Labor | 189,035 | 120,814 | 148,012 | 130,012 | (18,000) |
| 600 | Operating Supplies | 505,924 | 195,588 | 474,700 | 515,200 | 40,500 |
| 600 | Postage | 539 | 582 | 0 | 0 | 0 |
| 600 | Permits, Licenses and Fees | 16,561 | 16,605 | 13,500 | 13,500 | 0 |
| 600 | Office Supplies | 3,792 | 1,406 | 0 | 0 | 0 |
| 600 | Rep & Maint IRWD | 224,578 | 119,655 | 203,020 | 271,120 | 68,100 |
| 600 | Engineering Fees | 194,388 | 127,318 | 412,800 | 418,200 | 5,400 |
| 600 | Personnel Training | 16,162 | 2,980 | 41,000 | 41,000 | 0 |
| 600 | Other Professional Fees | 4,680 | 384 | 26,141 | 32,181 | 6,040 |
| 600 | Mileage Reimbursement | 7 | 0 | 0 | 0 | 0 |
| 600 | Safety | 6,787 | 1,250 | 11,000 | 11,000 | 0 |
| Total Water Quality | | 3,415,353 | 1,649,324 | 4,784,508 | 5,192,458 | 407,950 |

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2021-22

| Wtr Quality & Compliance | | FY 2019-20 | FY 2020-21 | FY 2020-21 | FY 2021-22 | |
|---|----------------------------|------------|-------------------------|------------|--------------------|-------------|
| Dept No | Expense Name | Actual | Actual thru 12/31/20 | Budget | Proposed Budget | Incr/(Decr) |
| Regulatory Compliance | | | | | | |
| 650 | Regular Labor | 755,825 | 397,693 | 671,141 | 869,500 | 198,359 |
| 650 | Overtime Labor | 78,854 | 32,397 | 107,600 | 101,050 | (6,550) |
| 650 | Employee Benefits | 135,153 | 58,026 | 100,163 | 622,900 | 522,737 |
| 650 | Contract Labor | 137,096 | 169,764 | 68,000 | 124,100 | 56,100 |
| 650 | Operating Supplies | 65,399 | 33,182 | 79,700 | 93,037 | 13,337 |
| 650 | Postage | 553 | 98 | 2,500 | 800 | (1,700) |
| 650 | Permits, Licenses and Fees | 581,364 | 452,230 | 609,530 | 707,830 | 98,300 |
| 650 | Office Supplies | 493 | 0 | 500 | 500 | 0 |
| 650 | Rep & Maint OCSD & Other | 3,858 | 446 | 8,000 | 23,600 | 15,600 |
| 650 | Rep & Maint IRWD | 255,043 | 108,770 | 202,500 | 303,000 | 100,500 |
| 650 | Engineering Fees | 219,201 | 137,642 | 316,324 | 390,000 | 73,676 |
| 650 | Personnel Training | 8,484 | 4,680 | 20,400 | 23,200 | 2,800 |
| 650 | Other Professional Fees | 1,889 | 120 | 2,000 | 11,400 | 9,400 |
| 650 | Equipment Usage | (1) | 38 | 0 | 0 | 0 |
| 650 | Safety | 0 | 0 | 1,000 | 1,000 | 0 |
| Total Regulatory Compliance | | 2,243,211 | 1,395,086 | 2,189,358 | 3,271,917 | 1,082,559 |
| Total Wtr Quality & Compliance | | 5,658,564 | 3,044,409 | 5,751,824 | 8,056,425 | 2,304,601 |

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2022-23

| Wtr Quality & Compliance | | FY 2019-20 Actual | FY 2020-21 Actual thru 12/31/20 | FY 2021-22 Proposed Budget | FY 2022-23 Proposed Budget | Incr/(Decr) |
|---|----------------------------|----------------------|---------------------------------------|----------------------------------|----------------------------------|----------------|
| <u>Dept No</u> | <u>Expense Name</u> | | | | | |
| <u>Regulatory Compliance</u> | | | | | | |
| 650 | Regular Labor | 755,825 | 397,693 | 869,500 | 900,000 | 30,500 |
| 650 | Overtime Labor | 78,854 | 32,397 | 101,050 | 102,450 | 1,400 |
| 650 | Employee Benefits | 135,153 | 58,026 | 622,900 | 649,200 | 26,300 |
| 650 | Contract Labor | 137,096 | 169,764 | 124,100 | 108,400 | (15,700) |
| 650 | Operating Supplies | 65,399 | 33,182 | 93,037 | 93,697 | 660 |
| 650 | Postage | 553 | 98 | 800 | 800 | 0 |
| 650 | Permits, Licenses and Fees | 581,364 | 452,230 | 707,830 | 750,100 | 42,270 |
| 650 | Office Supplies | 493 | 0 | 500 | 500 | 0 |
| 650 | Rep & Maint OCSD & Other | 3,858 | 446 | 23,600 | 25,000 | 1,400 |
| 650 | Rep & Maint IRWD | 255,043 | 108,770 | 303,000 | 311,000 | 8,000 |
| 650 | Engineering Fees | 219,201 | 137,642 | 390,000 | 402,000 | 12,000 |
| 650 | Personnel Training | 8,484 | 4,680 | 23,200 | 23,400 | 200 |
| 650 | Other Professional Fees | 1,889 | 120 | 11,400 | 13,400 | 2,000 |
| 650 | Equipment Usage | (1) | 38 | 0 | 0 | 0 |
| 650 | Safety | 0 | 0 | 1,000 | 1,000 | 0 |
| Total Regulatory Compliance | | 2,243,211 | 1,395,086 | 3,271,917 | 3,380,947 | 109,030 |
| Total Wtr Quality & Compliance | | 5,658,564 | 3,044,409 | 8,056,425 | 8,573,405 | 516,980 |



WATER OPERATIONS

OPERATING BUDGET SUMMARY

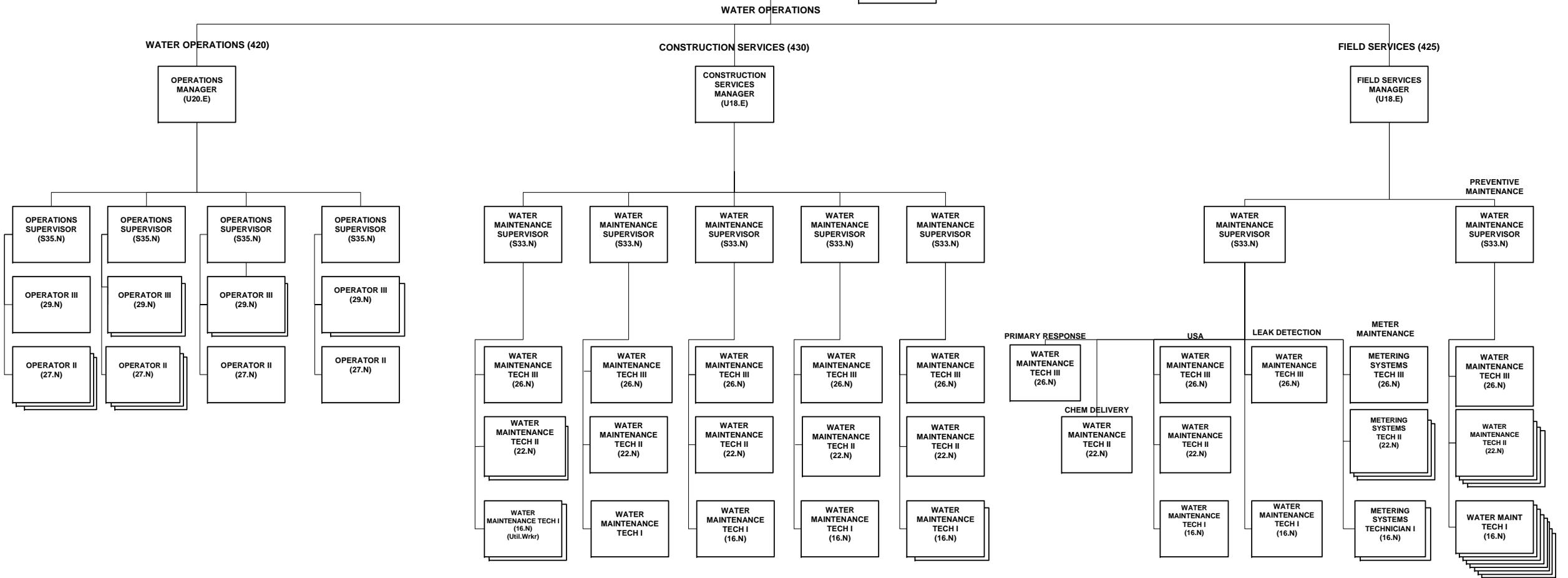
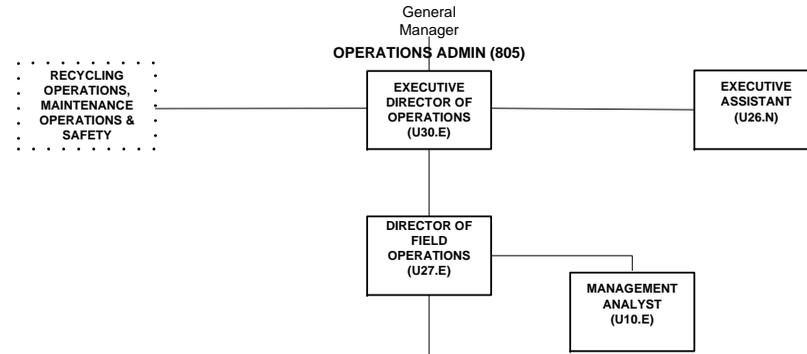
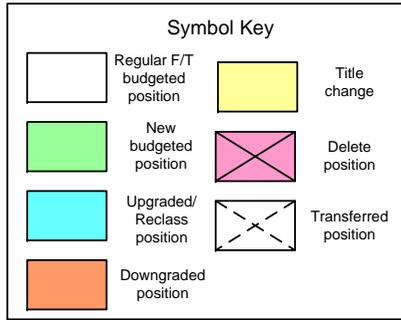
Program Description

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.

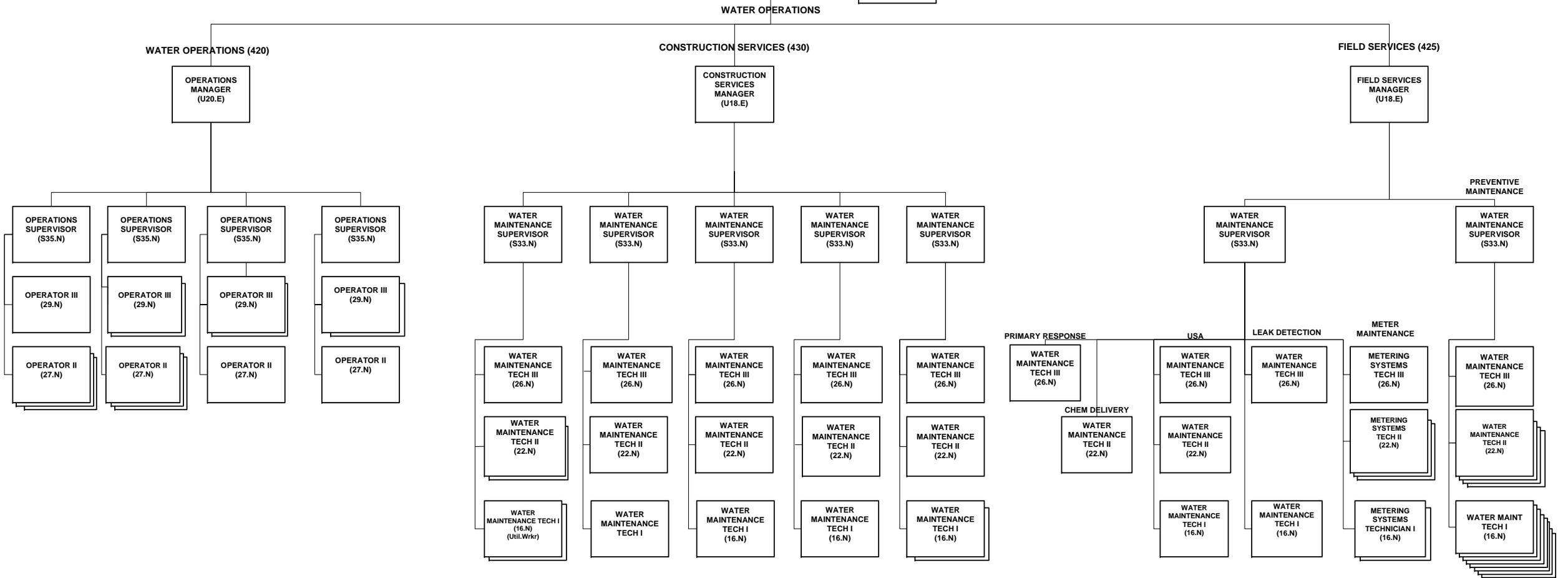
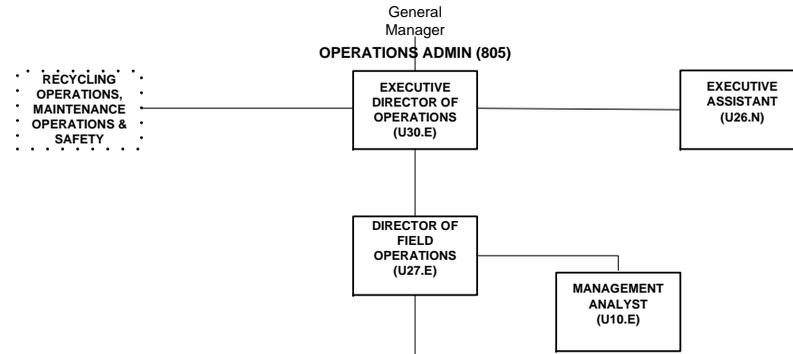
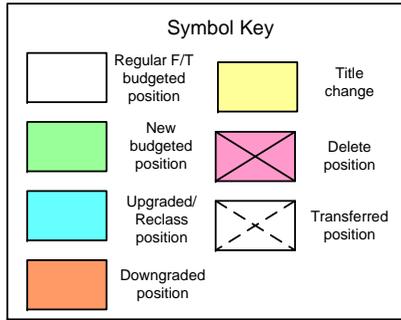
Major Goals

- Maintain 100% compliance with all regulatory permits;
- Meet the Department's adopted Operations and Maintenance 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.

**IRVINE RANCH WATER DISTRICT
OPERATIONS ADMINISTRATION & WATER OPERATIONS
FISCAL YEAR 2021-22**



**IRVINE RANCH WATER DISTRICT
OPERATIONS ADMINISTRATION & WATER OPERATIONS
FISCAL YEAR 2022-23**



Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2021-22

| Water Ops | | FY 2019-20 | FY 2020-21 | FY 2020-21 | FY 2021-22 | |
|-------------------------------|----------------------------|------------|-------------------------|------------|--------------------|-------------|
| Dept No | Expense Name | Actual | Actual thru 12/31/20 | Budget | Proposed Budget | Incr/(Decr) |
| <u>Water Operations</u> | | | | | | |
| 420 | Water Purchase | 42,205,378 | 23,156,197 | 44,681,254 | 42,330,362 | (2,350,892) |
| 420 | Regular Labor | 1,715,501 | 863,764 | 1,604,149 | 1,718,400 | 114,251 |
| 420 | Overtime Labor | 638,795 | 281,865 | 572,260 | 621,684 | 49,424 |
| 420 | Employee Benefits | 308,046 | 119,727 | 239,860 | 1,228,400 | 988,540 |
| 420 | Electricity | 9,808,179 | 6,789,032 | 11,313,244 | 12,925,083 | 1,611,839 |
| 420 | Fuel | 117,578 | 33,663 | 52,100 | 76,000 | 23,900 |
| 420 | Telecommunication | 60,452 | 29,953 | 84,860 | 60,900 | (23,960) |
| 420 | Other Utilities | 65,723 | 45,286 | 61,300 | 63,300 | 2,000 |
| 420 | Chemicals | 1,731,181 | 989,093 | 1,900,694 | 1,950,328 | 49,634 |
| 420 | Operating Supplies | 61,561 | 30,982 | 94,970 | 103,300 | 8,330 |
| 420 | Postage | 88 | 0 | 0 | 0 | 0 |
| 420 | Permits, Licenses and Fees | 201,121 | 79,914 | 260,551 | 222,155 | (38,396) |
| 420 | Office Supplies | 0 | 0 | 200 | 400 | 200 |
| 420 | Duplicating Equipment | 2,424 | 1,583 | 3,000 | 3,000 | 0 |
| 420 | Equipment Rental | 25,815 | 10,900 | 18,000 | 18,000 | 0 |
| 420 | Rep & Maint OCSD & Other | 1,173,588 | 387,838 | 930,000 | 930,000 | 0 |
| 420 | Rep & Maint IRWD | 890,983 | 761,719 | 1,640,265 | 1,428,973 | (211,292) |
| 420 | Engineering Fees | 169,016 | 81,037 | 140,240 | 171,728 | 31,488 |
| 420 | Personnel Training | 200 | 197 | 6,500 | 6,500 | 0 |
| 420 | Other Professional Fees | 7,541 | 101,069 | 105,200 | 155,100 | 49,900 |
| 420 | Equipment Usage | 0 | 0 | 0 | 0 | 0 |
| 420 | Safety | 42 | 0 | 3,000 | 3,000 | 0 |
| 420 | Commuter Program | (184) | 0 | 200 | 600 | 400 |
| Total Water Operations | | 59,183,027 | 33,763,819 | 63,711,847 | 64,017,213 | 305,366 |

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2022-23

| Water Ops | | FY 2019-20 | FY 2020-21 | FY 2021-22 | FY 2022-23 | |
|-------------------------------|----------------------------|------------|-------------------------|--------------------|--------------------|-------------|
| Dept No | Expense Name | Actual | Actual thru 12/31/20 | Proposed Budget | Proposed Budget | Incr/(Decr) |
| <u>Water Operations</u> | | | | | | |
| 420 | Water Purchase | 42,205,378 | 23,156,197 | 42,330,362 | 45,490,612 | 3,160,250 |
| 420 | Regular Labor | 1,715,501 | 863,764 | 1,718,400 | 1,790,000 | 71,600 |
| 420 | Overtime Labor | 638,795 | 281,865 | 621,684 | 638,684 | 17,000 |
| 420 | Employee Benefits | 308,046 | 119,727 | 1,228,400 | 1,295,000 | 66,600 |
| 420 | Electricity | 9,808,179 | 6,789,032 | 12,925,083 | 13,428,898 | 503,815 |
| 420 | Fuel | 117,578 | 33,663 | 76,000 | 76,000 | 0 |
| 420 | Telecommunication | 60,452 | 29,953 | 60,900 | 60,900 | 0 |
| 420 | Other Utilities | 65,723 | 45,286 | 63,300 | 65,300 | 2,000 |
| 420 | Chemicals | 1,731,181 | 989,093 | 1,950,328 | 1,993,495 | 43,167 |
| 420 | Operating Supplies | 61,561 | 30,982 | 103,300 | 103,300 | 0 |
| 420 | Postage | 88 | 0 | 0 | 50 | 50 |
| 420 | Permits, Licenses and Fees | 201,121 | 79,914 | 222,155 | 227,950 | 5,795 |
| 420 | Office Supplies | 0 | 0 | 400 | 400 | 0 |
| 420 | Duplicating Equipment | 2,424 | 1,583 | 3,000 | 3,000 | 0 |
| 420 | Equipment Rental | 25,815 | 10,900 | 18,000 | 18,000 | 0 |
| 420 | Rep & Maint OCSD & Other | 1,173,588 | 387,838 | 930,000 | 930,000 | 0 |
| 420 | Rep & Maint IRWD | 890,983 | 761,719 | 1,428,973 | 1,613,990 | 185,017 |
| 420 | Engineering Fees | 169,016 | 81,037 | 171,728 | 171,895 | 167 |
| 420 | Personnel Training | 200 | 197 | 6,500 | 6,500 | 0 |
| 420 | Other Professional Fees | 7,541 | 101,069 | 155,100 | 155,200 | 100 |
| 420 | Equipment Usage | 0 | 0 | 0 | 0 | 0 |
| 420 | Safety | 42 | 0 | 3,000 | 3,000 | 0 |
| 420 | Commuter Program | (184) | 0 | 600 | 200 | (400) |
| Total Water Operations | | 59,183,027 | 33,763,819 | 64,017,213 | 68,072,374 | 4,055,161 |

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2021-22

| Water Ops | | FY 2019-20 | FY 2020-21 | FY 2020-21 | FY 2021-22 | |
|-----------------------------|----------------------------|------------|-------------------------|------------|--------------------|-------------|
| Dept No | Expense Name | Actual | Actual thru 12/31/20 | Budget | Proposed Budget | Incr/(Decr) |
| <u>Field Services</u> | | | | | | |
| 425 | Regular Labor | 1,705,735 | 807,148 | 1,753,948 | 1,776,000 | 22,052 |
| 425 | Overtime Labor | 308,678 | 132,557 | 265,100 | 270,530 | 5,430 |
| 425 | Employee Benefits | 304,557 | 86,469 | 261,310 | 1,283,900 | 1,022,590 |
| 425 | Contract Labor | 102,250 | 34,411 | 36,000 | 36,000 | 0 |
| 425 | Chemicals | 0 | 0 | 900 | 900 | 0 |
| 425 | Operating Supplies | 84,028 | 48,163 | 122,700 | 101,500 | (21,200) |
| 425 | Permits, Licenses and Fees | 26,903 | 18,244 | 19,600 | 60,000 | 40,400 |
| 425 | Equipment Rental | 0 | 0 | 17,500 | 0 | (17,500) |
| 425 | Rep & Maint IRWD | 358,745 | 311,050 | 264,800 | 398,700 | 133,900 |
| 425 | Personnel Training | 437 | 277 | 680 | 680 | 0 |
| 425 | Other Professional Fees | 62 | 347 | 500 | 0 | (500) |
| 425 | Equipment Usage | 2 | 0 | 0 | 0 | 0 |
| 425 | Commuter Program | (184) | 0 | 0 | 0 | 0 |
| Total Field Services | | 2,891,213 | 1,438,668 | 2,743,038 | 3,928,210 | 1,185,172 |

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2022-23

| Water Ops | | FY 2019-20 Actual | FY 2020-21 Actual thru 12/31/20 | FY 2021-22 Proposed Budget | FY 2022-23 Proposed Budget | Incr/(Decr) |
|-----------------------------|----------------------------|----------------------|---------------------------------------|----------------------------------|----------------------------------|----------------|
| <u>Dept No</u> | <u>Expense Name</u> | | | | | |
| Field Services | | | | | | |
| 425 | Regular Labor | 1,705,735 | 807,148 | 1,776,000 | 1,849,600 | 73,600 |
| 425 | Overtime Labor | 308,678 | 132,557 | 270,530 | 270,545 | 15 |
| 425 | Employee Benefits | 304,557 | 86,469 | 1,283,900 | 1,346,600 | 62,700 |
| 425 | Contract Labor | 102,250 | 34,411 | 36,000 | 36,000 | 0 |
| 425 | Chemicals | 0 | 0 | 900 | 900 | 0 |
| 425 | Operating Supplies | 84,028 | 48,163 | 101,500 | 101,500 | 0 |
| 425 | Permits, Licenses and Fees | 26,903 | 18,244 | 60,000 | 60,000 | 0 |
| 425 | Equipment Rental | 0 | 0 | 0 | 0 | 0 |
| 425 | Rep & Maint IRWD | 358,745 | 311,050 | 398,700 | 403,640 | 4,940 |
| 425 | Personnel Training | 437 | 277 | 680 | 680 | 0 |
| 425 | Other Professional Fees | 62 | 347 | 0 | 0 | 0 |
| 425 | Equipment Usage | 2 | 0 | 0 | 0 | 0 |
| 425 | Commuter Program | (184) | 0 | 0 | 0 | 0 |
| Total Field Services | | 2,891,213 | 1,438,668 | 3,928,210 | 4,069,465 | 141,255 |

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2021-22

| Water Ops | | FY 2019-20 | FY 2020-21 | FY 2020-21 | FY 2021-22 | |
|------------------------------------|----------------------------|------------|-------------------------|------------|--------------------|-------------|
| Dept No | Expense Name | Actual | Actual thru 12/31/20 | Budget | Proposed Budget | Incr/(Decr) |
| <u>Construction Services</u> | | | | | | |
| 430 | Regular Labor | 1,710,615 | 806,015 | 1,702,665 | 1,768,800 | 66,135 |
| 430 | Overtime Labor | 428,555 | 188,768 | 253,608 | 317,000 | 63,392 |
| 430 | Employee Benefits | 305,419 | 105,650 | 253,713 | 1,276,200 | 1,022,487 |
| 430 | Contract Labor | 31,579 | 1,347 | 135,200 | 36,000 | (99,200) |
| 430 | Chemicals | 0 | 0 | 624 | 0 | (624) |
| 430 | Operating Supplies | 149,099 | 67,932 | 166,740 | 170,120 | 3,380 |
| 430 | Permits, Licenses and Fees | 88,801 | 56,781 | 97,380 | 109,380 | 12,000 |
| 430 | Equipment Rental | 0 | 0 | 12,000 | 12,000 | 0 |
| 430 | Rep & Maint IRWD | 735,376 | 407,548 | 455,260 | 537,020 | 81,760 |
| 430 | Personnel Training | 4,667 | 2,398 | 8,320 | 8,320 | 0 |
| 430 | Other Professional Fees | 134 | 754 | 0 | 0 | 0 |
| 430 | Equipment Usage | 1 | 0 | 0 | 0 | 0 |
| 430 | Commuter Program | (184) | 0 | 0 | 0 | 0 |
| Total Construction Services | | 3,454,062 | 1,637,193 | 3,085,510 | 4,234,840 | 1,149,330 |
| Total Water Ops | | 65,528,302 | 36,839,679 | 69,540,395 | 72,180,263 | 2,639,868 |

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2022-23

| Water Ops | | FY 2019-20 Actual | FY 2020-21 Actual thru 12/31/20 | FY 2021-22 Proposed Budget | FY 2022-23 Proposed Budget | Incr/(Decr) |
|------------------------------------|----------------------------|----------------------|---------------------------------------|----------------------------------|----------------------------------|------------------|
| <u>Dept No</u> | <u>Expense Name</u> | | | | | |
| <u>Construction Services</u> | | | | | | |
| 430 | Regular Labor | 1,710,615 | 806,015 | 1,768,800 | 1,842,500 | 73,700 |
| 430 | Overtime Labor | 428,555 | 188,768 | 317,000 | 321,000 | 4,000 |
| 430 | Employee Benefits | 305,419 | 105,650 | 1,276,200 | 1,340,700 | 64,500 |
| 430 | Contract Labor | 31,579 | 1,347 | 36,000 | 40,000 | 4,000 |
| 430 | Chemicals | 0 | 0 | 0 | 0 | 0 |
| 430 | Operating Supplies | 149,099 | 67,932 | 170,120 | 172,920 | 2,800 |
| 430 | Permits, Licenses and Fees | 88,801 | 56,781 | 109,380 | 113,380 | 4,000 |
| 430 | Equipment Rental | 0 | 0 | 12,000 | 12,000 | 0 |
| 430 | Rep & Maint IRWD | 735,376 | 407,548 | 537,020 | 548,020 | 11,000 |
| 430 | Personnel Training | 4,667 | 2,398 | 8,320 | 0 | (8,320) |
| 430 | Other Professional Fees | 134 | 754 | 0 | 0 | 0 |
| 430 | Equipment Usage | 1 | 0 | 0 | 0 | 0 |
| 430 | Commuter Program | (184) | 0 | 0 | 0 | 0 |
| Total Construction Services | | 3,454,062 | 1,637,193 | 4,234,840 | 4,390,520 | 155,680 |
| Total Water Ops | | 65,528,302 | 36,839,679 | 72,180,263 | 76,532,359 | 4,352,096 |



RECYCLING OPERATIONS

OPERATING BUDGET SUMMARY

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 Operations budget;
- Maintain 100% compliance with all regulatory permits;
- Achieve zero lost time accidents;
- Maintain and develop staff competency through a combination of internal and external training;
- Fully utilize computer maintenance management system software 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;
- Develop a plan to introduce FOG and food-waste to the IRWD Biosolids facility;
- Maximize beneficial reuse of biogas through energy production or heat recovery systems;
- Maintain agreements with multiple outlets for Biosolids Class A Pellets and Class B cake;
- Complete study and implement relocation of Woodbridge in-line NTS site;
- Integrate newly constructed Agua Chinon A & B basins into the NTS program;
- Initiate and perform station improvements at El Modena NTS site;
- Improve reliability of the SCADA control system and increase uptime by upgrading stations with legacy Programmable Logic Control hardware and software;
- 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;
- Evaluate artificial intelligence and machine learning to improve process control, efficiency and water quality;

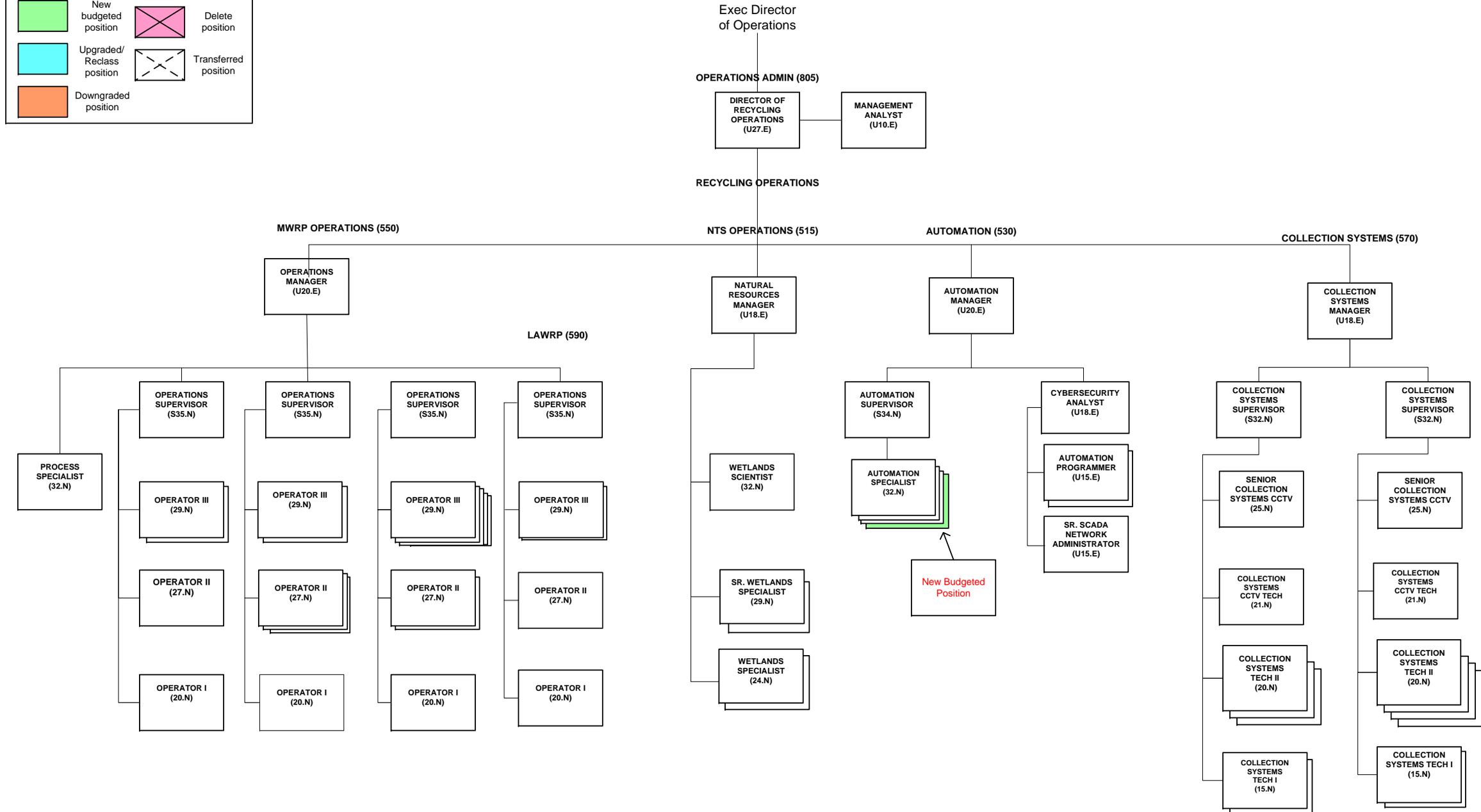
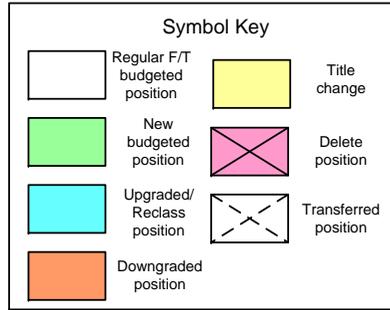


RECYCLING OPERATIONS

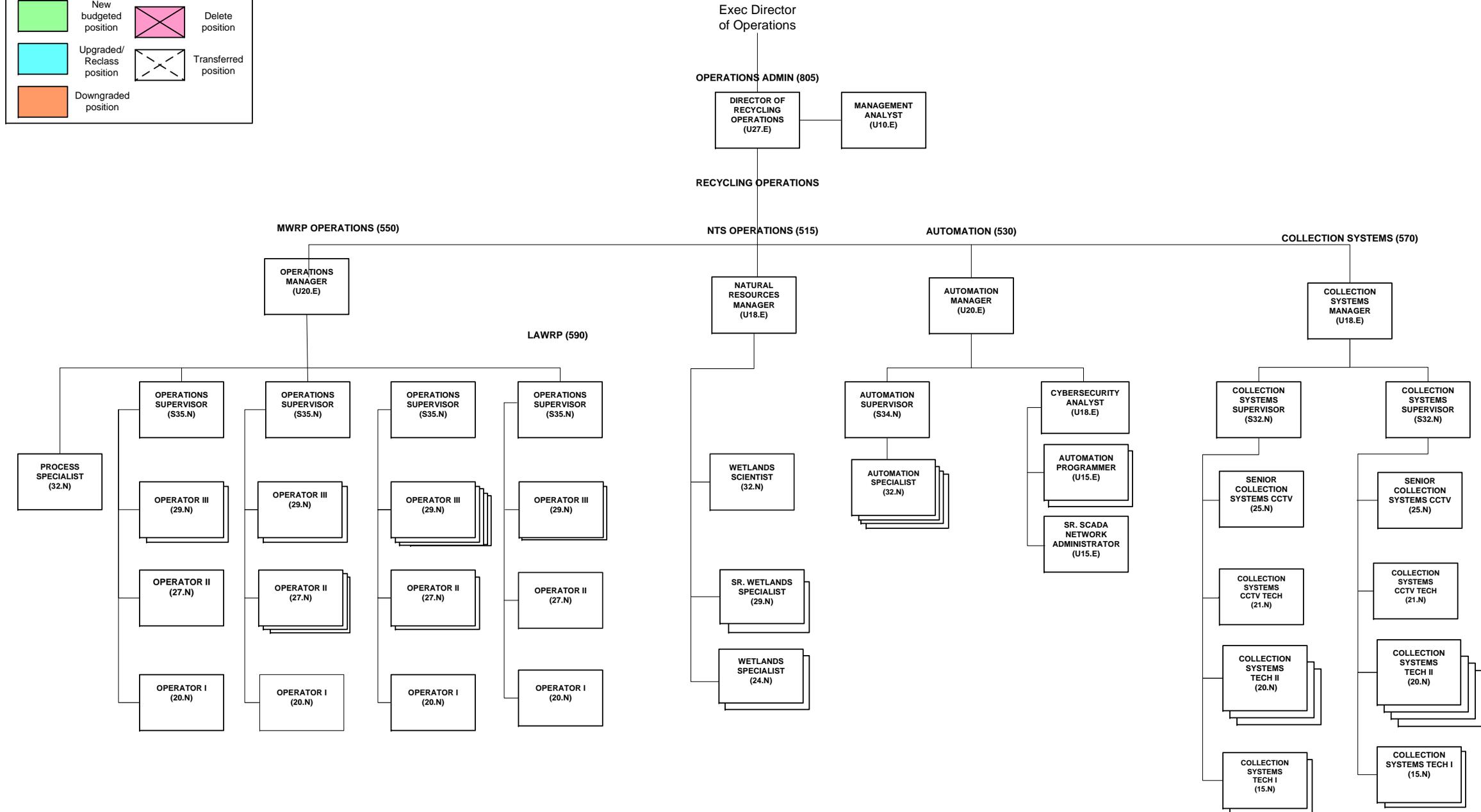
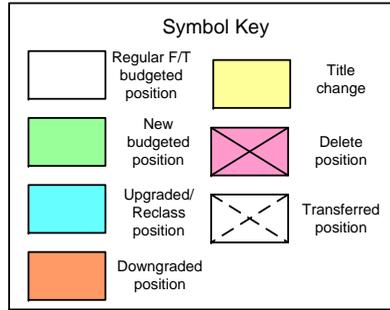
OPERATING BUDGET SUMMARY

- Develop and implement a program to conduct sewer lift station bypass testing;
- Evaluate and implement processes for inspection and cleaning of large sewer lines (> 21"); and,
- Manage backlog aging of sewer repairs.

**IRVINE RANCH WATER DISTRICT
RECYCLING OPERATIONS
FISCAL YEAR 2021-22**



**IRVINE RANCH WATER DISTRICT
RECYCLING OPERATIONS
FISCAL YEAR 2022-23**



Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2021-22

| Recycling Ops | | FY 2019-20 | FY 2020-21 | FY 2020-21 | FY 2021-22 | |
|-----------------------------|----------------------------|------------------|-------------------------|------------------|--------------------|----------------|
| Dept No | Expense Name | Actual | Actual thru 12/31/20 | Budget | Proposed Budget | Incr/(Decr) |
| <u>NTS Operations</u> | | | | | | |
| 515 | Regular Labor | 441,114 | 226,642 | 470,192 | 509,300 | 39,108 |
| 515 | Overtime Labor | 1,661 | 554 | 4,600 | 2,000 | (2,600) |
| 515 | Employee Benefits | 70,789 | 30,137 | 70,395 | 361,400 | 291,005 |
| 515 | Contract Labor | 78,534 | 44,830 | 75,900 | 60,000 | (15,900) |
| 515 | Electricity | 131,888 | 109,177 | 218,400 | 266,450 | 48,050 |
| 515 | Telecommunication | 7,795 | 3,728 | 14,948 | 9,000 | (5,948) |
| 515 | Operating Supplies | 10,746 | 10,383 | 14,260 | 14,400 | 140 |
| 515 | Printing | 0 | 0 | 1,148 | 0 | (1,148) |
| 515 | Postage | 20 | 18 | 576 | 300 | (276) |
| 515 | Permits, Licenses and Fees | 3,224 | 3,229 | 5,520 | 4,800 | (720) |
| 515 | Office Supplies | 11 | 0 | 0 | 0 | 0 |
| 515 | Equipment Rental | 7,454 | 3,797 | 9,200 | 7,800 | (1,400) |
| 515 | Rep & Maint OCSD & Other | 44,781 | 26,938 | 23,920 | 32,000 | 8,080 |
| 515 | Rep & Maint IRWD | 2,012,475 | 826,171 | 1,920,595 | 2,430,000 | 509,405 |
| 515 | Engineering Fees | 86,666 | 3,523 | 18,400 | 19,000 | 600 |
| 515 | Personnel Training | 2,919 | 0 | 11,040 | 9,600 | (1,440) |
| 515 | Other Professional Fees | 157,296 | 115,073 | 221,720 | 204,000 | (17,720) |
| 515 | Other | 16,080 | 2,855 | 18,400 | 0 | (18,400) |
| Total NTS Operations | | 3,073,452 | 1,407,056 | 3,099,214 | 3,930,050 | 830,836 |

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2022-23

Recycling Ops

| <u>Dept No</u> | <u>Expense Name</u> | FY 2019-20 Actual | FY 2020-21 Actual thru 12/31/20 | FY 2021-22 Proposed Budget | FY 2022-23 Proposed Budget | Incr/(Decr) |
|-----------------------------|----------------------------|----------------------|---------------------------------------|----------------------------------|----------------------------------|---------------|
| NTS Operations | | | | | | |
| 515 | Regular Labor | 441,114 | 226,642 | 509,300 | 532,500 | 23,200 |
| 515 | Overtime Labor | 1,661 | 554 | 2,000 | 2,800 | 800 |
| 515 | Employee Benefits | 70,789 | 30,137 | 361,400 | 380,800 | 19,400 |
| 515 | Contract Labor | 78,534 | 44,830 | 60,000 | 60,000 | 0 |
| 515 | Electricity | 131,888 | 109,177 | 266,450 | 171,300 | (95,150) |
| 515 | Telecommunication | 7,795 | 3,728 | 9,000 | 10,200 | 1,200 |
| 515 | Operating Supplies | 10,746 | 10,383 | 14,400 | 14,544 | 144 |
| 515 | Printing | 0 | 0 | 0 | 0 | 0 |
| 515 | Postage | 20 | 18 | 300 | 400 | 100 |
| 515 | Permits, Licenses and Fees | 3,224 | 3,229 | 4,800 | 4,944 | 144 |
| 515 | Office Supplies | 11 | 0 | 0 | 0 | 0 |
| 515 | Equipment Rental | 7,454 | 3,797 | 7,800 | 8,200 | 400 |
| 515 | Rep & Maint OCSD & Other | 44,781 | 26,938 | 32,000 | 33,000 | 1,000 |
| 515 | Rep & Maint IRWD | 2,012,475 | 826,171 | 2,430,000 | 2,512,300 | 82,300 |
| 515 | Engineering Fees | 86,666 | 3,523 | 19,000 | 20,000 | 1,000 |
| 515 | Personnel Training | 2,919 | 0 | 9,600 | 15,200 | 5,600 |
| 515 | Other Professional Fees | 157,296 | 115,073 | 204,000 | 216,000 | 12,000 |
| 515 | Other | 16,080 | 2,855 | 0 | 0 | 0 |
| Total NTS Operations | | 3,073,452 | 1,407,056 | 3,930,050 | 3,982,188 | 52,138 |

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2021-22

| Recycling Ops | | FY 2019-20 Actual | FY 2020-21 Actual thru 12/31/20 | FY 2020-21 Budget | FY 2021-22 Proposed Budget | Incr/(Decr) |
|-------------------------|------------------------------|----------------------|---------------------------------------|----------------------|----------------------------------|----------------|
| Dept No | Expense Name | | | | | |
| Automation | | | | | | |
| 530 | Regular Labor | 772,814 | 423,694 | 761,707 | 910,000 | 148,293 |
| 530 | Overtime Labor | 100,576 | 42,956 | 78,200 | 103,416 | 25,216 |
| 530 | Employee Benefits | 136,386 | 46,609 | 112,839 | 634,100 | 521,261 |
| 530 | Operating Supplies | 67,601 | 37,852 | 97,000 | 81,400 | (15,600) |
| 530 | Rep & Maint IRWD | 116,583 | 32,014 | 111,000 | 91,200 | (19,800) |
| 530 | Personnel Training | 394 | 0 | 0 | 0 | 0 |
| 530 | Other Professional Fees | 124,212 | 4,200 | 120,300 | 120,000 | (300) |
| 530 | Equipment Usage | (1) | 0 | 0 | 0 | 0 |
| 530 | Safety | 1,782 | 0 | 3,000 | 2,000 | (1,000) |
| Total Automation | | 1,320,347 | 587,325 | 1,284,046 | 1,942,116 | 658,070 |

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2022-23

Recycling Ops

| <u>Dept No</u> | <u>Expense Name</u> | FY 2019-20 Actual | FY 2020-21 Actual thru 12/31/20 | FY 2021-22 Proposed Budget | FY 2022-23 Proposed Budget | Incr/(Decr) |
|-------------------------|-------------------------|----------------------|---------------------------------------|----------------------------------|----------------------------------|---------------|
| <u>Automation</u> | | | | | | |
| 530 | Regular Labor | 772,814 | 423,694 | 910,000 | 946,500 | 36,500 |
| 530 | Overtime Labor | 100,576 | 42,956 | 103,416 | 106,524 | 3,108 |
| 530 | Employee Benefits | 136,386 | 46,609 | 634,100 | 664,600 | 30,500 |
| 530 | Operating Supplies | 67,601 | 37,852 | 81,400 | 83,712 | 2,312 |
| 530 | Rep & Maint IRWD | 116,583 | 32,014 | 91,200 | 93,940 | 2,740 |
| 530 | Personnel Training | 394 | 0 | 0 | 0 | 0 |
| 530 | Other Professional Fees | 124,212 | 4,200 | 120,000 | 123,600 | 3,600 |
| 530 | Equipment Usage | (1) | 0 | 0 | 0 | 0 |
| 530 | Safety | 1,782 | 0 | 2,000 | 2,060 | 60 |
| Total Automation | | 1,320,347 | 587,325 | 1,942,116 | 2,020,936 | 78,820 |

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2021-22

| Recycling Ops | | FY 2019-20 | FY 2020-21 | FY 2020-21 | FY 2021-22 | |
|------------------------------|--------------------------|------------|-------------------------|------------|--------------------|-------------|
| Dept No | Expense Name | Actual | Actual thru 12/31/20 | Budget | Proposed Budget | Incr/(Decr) |
| MWRP Operations | | | | | | |
| 550 | Regular Labor | 1,358,307 | 758,024 | 1,609,867 | 1,686,400 | 76,533 |
| 550 | Overtime Labor | 183,035 | 159,215 | 162,220 | 199,600 | 37,380 |
| 550 | Employee Benefits | 248,537 | 85,803 | 238,485 | 1,199,700 | 961,215 |
| 550 | Contract Labor | 0 | 0 | 0 | 165,200 | 165,200 |
| 550 | Electricity | 2,799,068 | 2,818,908 | 5,470,174 | 4,952,500 | (517,674) |
| 550 | Fuel | 39,958 | 36,677 | 361,192 | 338,736 | (22,456) |
| 550 | Chemicals | 721,613 | 326,667 | 1,784,984 | 1,653,620 | (131,364) |
| 550 | Operating Supplies | 46,728 | 22,971 | 121,100 | 57,200 | (63,900) |
| 550 | Rep & Maint OCSD & Other | 10,979,833 | 7,821,591 | 4,173,000 | 4,120,000 | (53,000) |
| 550 | Rep & Maint IRWD | 3,310 | 3,687 | 11,000 | 511,000 | 500,000 |
| 550 | Personnel Training | 586 | 185 | 2,800 | 2,800 | 0 |
| 550 | Other Professional Fees | 91,326 | 43,432 | 120,000 | 140,000 | 20,000 |
| 550 | Equipment Usage | 0 | 0 | 0 | 0 | 0 |
| 550 | Safety | 11,639 | 713 | 20,000 | 35,000 | 15,000 |
| 550 | Biosolids Disposals | 0 | 0 | 1,025,452 | 358,000 | (667,452) |
| 550 | Commuter Program | (184) | 0 | 0 | 0 | 0 |
| 550 | Other | 100,917 | 49,191 | 110,600 | 111,200 | 600 |
| Total MWRP Operations | | 16,584,673 | 12,127,064 | 15,210,874 | 15,530,956 | 320,082 |

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2022-23

Recycling Ops

| <u>Dept No</u> | <u>Expense Name</u> | FY 2019-20 Actual | FY 2020-21 Actual thru 12/31/20 | FY 2021-22 Proposed Budget | FY 2022-23 Proposed Budget | Incr/(Decr) |
|------------------------------|--------------------------|----------------------|---------------------------------------|----------------------------------|----------------------------------|----------------|
| MWRP Operations | | | | | | |
| 550 | Regular Labor | 1,358,307 | 758,024 | 1,686,400 | 1,755,600 | 69,200 |
| 550 | Overtime Labor | 183,035 | 159,215 | 199,600 | 204,992 | 5,392 |
| 550 | Employee Benefits | 248,537 | 85,803 | 1,199,700 | 1,253,700 | 54,000 |
| 550 | Contract Labor | 0 | 0 | 165,200 | 165,200 | 0 |
| 550 | Electricity | 2,799,068 | 2,818,908 | 4,952,500 | 5,196,299 | 243,799 |
| 550 | Fuel | 39,958 | 36,677 | 338,736 | 340,328 | 1,592 |
| 550 | Chemicals | 721,613 | 326,667 | 1,653,620 | 1,697,336 | 43,716 |
| 550 | Operating Supplies | 46,728 | 22,971 | 57,200 | 57,200 | 0 |
| 550 | Rep & Maint OCSD & Other | 10,979,833 | 7,821,591 | 4,120,000 | 4,120,000 | 0 |
| 550 | Rep & Maint IRWD | 3,310 | 3,687 | 511,000 | 511,000 | 0 |
| 550 | Personnel Training | 586 | 185 | 2,800 | 2,800 | 0 |
| 550 | Other Professional Fees | 91,326 | 43,432 | 140,000 | 140,000 | 0 |
| 550 | Equipment Usage | 0 | 0 | 0 | 0 | 0 |
| 550 | Safety | 11,639 | 713 | 35,000 | 35,000 | 0 |
| 550 | Biosolids Disposals | 0 | 0 | 358,000 | 323,600 | (34,400) |
| 550 | Commuter Program | (184) | 0 | 0 | 0 | 0 |
| 550 | Other | 100,917 | 49,191 | 111,200 | 111,200 | 0 |
| Total MWRP Operations | | 16,584,673 | 12,127,064 | 15,530,956 | 15,914,255 | 383,299 |

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2021-22

| Recycling Ops | | FY 2019-20 Actual | FY 2020-21 Actual thru 12/31/20 | FY 2020-21 Budget | FY 2021-22 Proposed Budget | Incr/(Decr) |
|----------------------------------|------------------------------|----------------------|---------------------------------------|----------------------|----------------------------------|----------------|
| Dept No | Expense Name | | | | | |
| Collections Systems | | | | | | |
| 570 | Regular Labor | 1,134,053 | 510,803 | 1,152,709 | 1,174,800 | 22,091 |
| 570 | Overtime Labor | 149,036 | 73,392 | 128,000 | 142,500 | 14,500 |
| 570 | Employee Benefits | 201,902 | 74,242 | 171,502 | 854,200 | 682,698 |
| 570 | Contract Labor | 25,488 | 0 | 6,000 | 60,000 | 54,000 |
| 570 | Electricity | 89,479 | 87,731 | 137,608 | 190,100 | 52,492 |
| 570 | Telecommunication | 16,004 | 10,521 | 29,000 | 29,400 | 400 |
| 570 | Chemicals | 478,445 | 229,886 | 640,000 | 480,400 | (159,600) |
| 570 | Operating Supplies | 61,234 | 38,458 | 72,600 | 73,000 | 400 |
| 570 | Rep & Maint IRWD | 465,067 | 283,062 | 618,000 | 673,000 | 55,000 |
| 570 | Personnel Training | 2,896 | 2,938 | 5,000 | 5,000 | 0 |
| 570 | Other Professional Fees | 10,043 | 49,633 | 75,200 | 177,700 | 102,500 |
| 570 | Equipment Usage | 1 | 0 | 0 | 0 | 0 |
| 570 | Mileage Reimbursement | 516 | 0 | 0 | 0 | 0 |
| 570 | Safety | 273 | 20,073 | 12,000 | 12,000 | 0 |
| Total Collections Systems | | 2,634,437 | 1,380,738 | 3,047,619 | 3,872,100 | 824,481 |

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2022-23

Recycling Ops

| <u>Dept No</u> | <u>Expense Name</u> | FY 2019-20 Actual | FY 2020-21 Actual thru 12/31/20 | FY 2021-22 Proposed Budget | FY 2022-23 Proposed Budget | Incr/(Decr) |
|----------------------------------|-------------------------|----------------------|---------------------------------------|----------------------------------|----------------------------------|---------------|
| <u>Collections Systems</u> | | | | | | |
| 570 | Regular Labor | 1,134,053 | 510,803 | 1,174,800 | 1,225,100 | 50,300 |
| 570 | Overtime Labor | 149,036 | 73,392 | 142,500 | 146,412 | 3,912 |
| 570 | Employee Benefits | 201,902 | 74,242 | 854,200 | 895,500 | 41,300 |
| 570 | Contract Labor | 25,488 | 0 | 60,000 | 60,000 | 0 |
| 570 | Electricity | 89,479 | 87,731 | 190,100 | 201,000 | 10,900 |
| 570 | Telecommunication | 16,004 | 10,521 | 29,400 | 29,600 | 200 |
| 570 | Chemicals | 478,445 | 229,886 | 480,400 | 490,000 | 9,600 |
| 570 | Operating Supplies | 61,234 | 38,458 | 73,000 | 77,800 | 4,800 |
| 570 | Rep & Maint IRWD | 465,067 | 283,062 | 673,000 | 673,000 | 0 |
| 570 | Personnel Training | 2,896 | 2,938 | 5,000 | 5,000 | 0 |
| 570 | Other Professional Fees | 10,043 | 49,633 | 177,700 | 100,700 | (77,000) |
| 570 | Equipment Usage | 1 | 0 | 0 | 0 | 0 |
| 570 | Mileage Reimbursement | 516 | 0 | 0 | 0 | 0 |
| 570 | Safety | 273 | 20,073 | 12,000 | 12,000 | 0 |
| Total Collections Systems | | 2,634,437 | 1,380,738 | 3,872,100 | 3,916,112 | 44,012 |

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2021-22

| Recycling Ops | | FY 2019-20 | FY 2020-21 | FY 2020-21 | FY 2021-22 | |
|-------------------------------|--------------------------|------------------|-------------------------|------------------|--------------------|----------------|
| Dept No | Expense Name | Actual | Actual thru 12/31/20 | Budget | Proposed Budget | Incr/(Decr) |
| LAWRP Operations | | | | | | |
| 590 | Regular Labor | 398,800 | 148,251 | 433,021 | 444,300 | 11,279 |
| 590 | Overtime Labor | 67,145 | 45,122 | 49,060 | 53,200 | 4,140 |
| 590 | Employee Benefits | 70,380 | 30,969 | 64,147 | 325,700 | 261,553 |
| 590 | Electricity | 992,831 | 470,145 | 821,756 | 915,700 | 93,944 |
| 590 | Fuel | 539 | 113 | 824 | 800 | (24) |
| 590 | Chemicals | 168,807 | 137,731 | 201,880 | 338,400 | 136,520 |
| 590 | Operating Supplies | 4,519 | 2,519 | 8,364 | 10,500 | 2,136 |
| 590 | Rep & Maint OCSD & Other | 142,287 | 150,595 | 256,000 | 302,200 | 46,200 |
| 590 | Rep & Maint IRWD | 85,376 | 61,559 | 91,666 | 33,748 | (57,918) |
| 590 | Personnel Training | 462 | 277 | 256 | 556 | 300 |
| 590 | Other Professional Fees | 0 | 0 | 514 | 0 | (514) |
| 590 | Safety | 0 | 0 | 1,748 | 2,000 | 252 |
| 590 | Biosolids Disposals | 30,807 | 13,032 | 18,540 | 32,000 | 13,460 |
| Total LARWP Operations | | <u>1,961,953</u> | <u>1,060,312</u> | <u>1,947,776</u> | <u>2,459,104</u> | <u>511,328</u> |
| <hr/> | | | | | | |
| Total Recycling Ops | | 25,574,862 | 16,562,494 | 24,589,529 | 27,734,326 | 3,144,797 |

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2022-23

Recycling Ops

| <u>Dept No</u> | <u>Expense Name</u> | FY 2019-20 Actual | FY 2020-21 Actual thru 12/31/20 | FY 2021-22 Proposed Budget | FY 2022-23 Proposed Budget | Incr/(Decr) |
|-------------------------------|--------------------------|----------------------|---------------------------------------|----------------------------------|----------------------------------|-------------|
| LAWRP Operations | | | | | | |
| 590 | Regular Labor | 398,800 | 148,251 | 444,300 | 463,400 | 19,100 |
| 590 | Overtime Labor | 67,145 | 45,122 | 53,200 | 53,200 | 0 |
| 590 | Employee Benefits | 70,380 | 30,969 | 325,700 | 342,400 | 16,700 |
| 590 | Electricity | 992,831 | 470,145 | 915,700 | 766,500 | (149,200) |
| 590 | Fuel | 539 | 113 | 800 | 800 | 0 |
| 590 | Chemicals | 168,807 | 137,731 | 338,400 | 338,400 | 0 |
| 590 | Operating Supplies | 4,519 | 2,519 | 10,500 | 10,500 | 0 |
| 590 | Rep & Maint OCSD & Other | 142,287 | 150,595 | 302,200 | 302,200 | 0 |
| 590 | Rep & Maint IRWD | 85,376 | 61,559 | 33,748 | 33,748 | 0 |
| 590 | Personnel Training | 462 | 277 | 556 | 556 | 0 |
| 590 | Other Professional Fees | 0 | 0 | 0 | 0 | 0 |
| 590 | Safety | 0 | 0 | 2,000 | 2,000 | 0 |
| 590 | Biosolids Disposals | 30,807 | 13,032 | 32,000 | 32,000 | 0 |
| Total LAWRP Operations | | 1,961,953 | 1,060,312 | 2,459,104 | 2,345,704 | (113,400) |
| Total Recycling Ops | | 25,574,862 | 16,562,494 | 27,734,326 | 28,179,195 | 444,869 |



MAINTENANCE OPERATIONS

OPERATING BUDGET SUMMARY

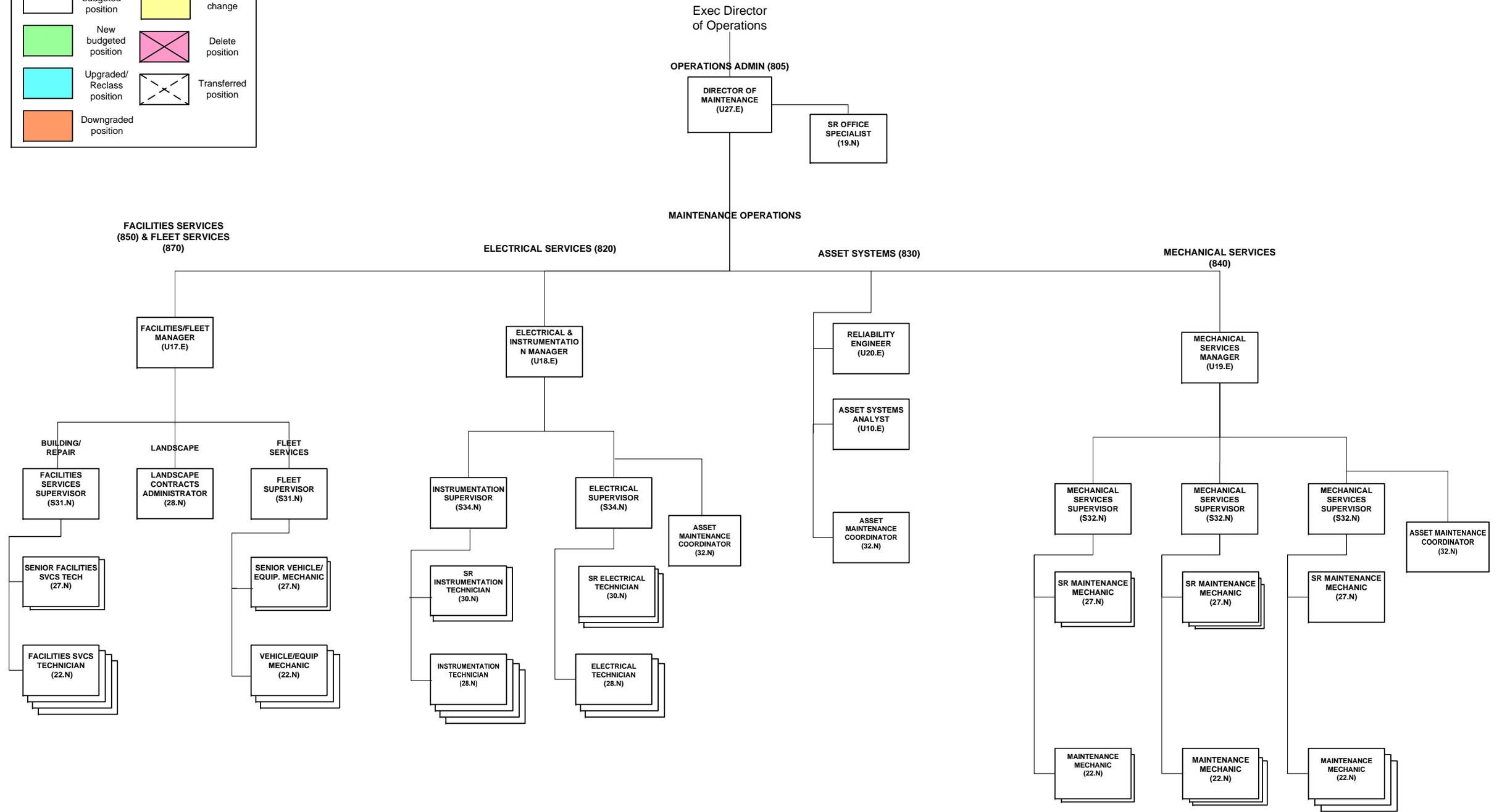
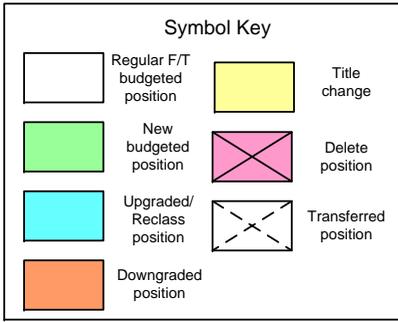
Program Description

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.

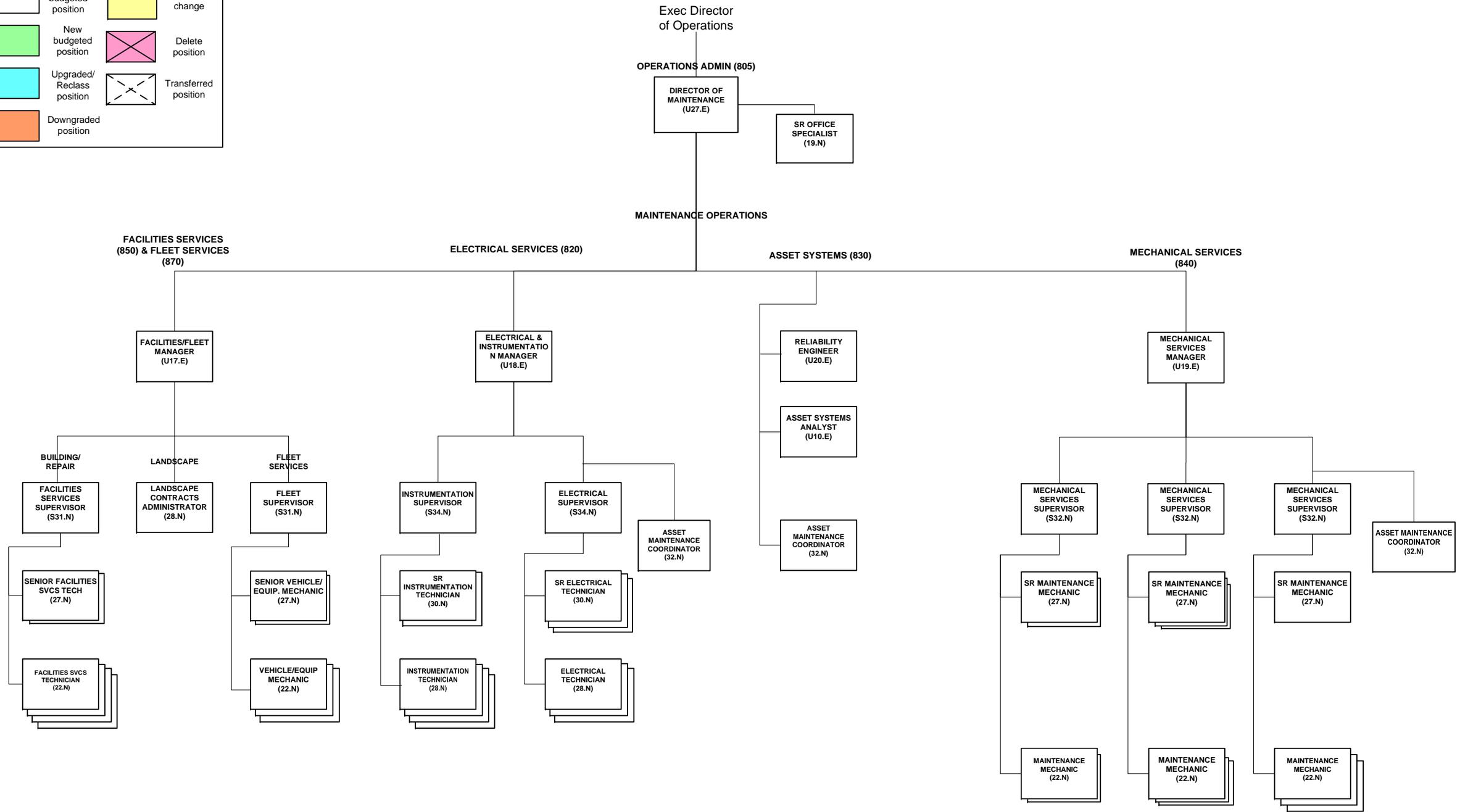
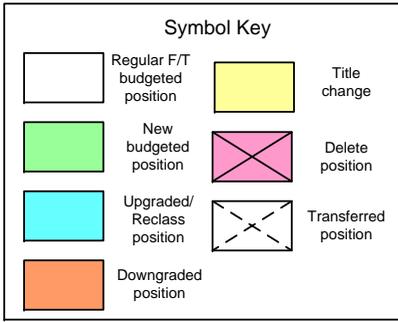
Major Goals

- 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 the development of plans to install a modified Operations Center that can serve as a "hub" for day to day operations and support emergency operations when needed; 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
MAINTENANCE OPERATIONS
FISCAL YEAR 2021-22**



**IRVINE RANCH WATER DISTRICT
MAINTENANCE OPERATIONS
FISCAL YEAR 2022-23**



Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2021-22

| Maint Ops | | FY 2019-20 | FY 2020-21 | FY 2020-21 | FY 2021-22 | |
|--|-------------------------|------------|-------------------------|------------|--------------------|-------------|
| Dept No | Expense Name | Actual | Actual thru 12/31/20 | Budget | Proposed Budget | Incr/(Decr) |
| <u>Operations Administration</u> | | | | | | |
| 805 | Regular Labor | 998,306 | 432,968 | 951,097 | 976,300 | 25,203 |
| 805 | Overtime Labor | 100 | 0 | 0 | 0 | 0 |
| 805 | Employee Benefits | 177,946 | 56,985 | 141,636 | 688,700 | 547,064 |
| 805 | Electricity | 14,322 | (14,322) | 0 | 0 | 0 |
| 805 | Telecommunication | 2,119 | 835 | 4,620 | 4,700 | 80 |
| 805 | Operating Supplies | 3,691 | 2,234 | 9,700 | 6,750 | (2,950) |
| 805 | Printing | 51 | 0 | 3,500 | 1,000 | (2,500) |
| 805 | Postage | 305 | 0 | 1,000 | 1,000 | 0 |
| 805 | Office Supplies | 10,068 | 6,268 | 15,000 | 12,000 | (3,000) |
| 805 | Rep & Maint IRWD | 953 | 284 | 0 | 0 | 0 |
| 805 | Personnel Training | 57,167 | 3,899 | 99,200 | 40,500 | (58,700) |
| 805 | Other Professional Fees | 27,830 | 6,072 | 63,150 | 17,800 | (45,350) |
| 805 | Equipment Usage | 1 | 0 | 0 | 0 | 0 |
| 805 | Commuter Program | (69) | 0 | 0 | 0 | 0 |
| Total Operations Administration | | 1,292,790 | 495,223 | 1,288,903 | 1,748,750 | 459,847 |

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2022-23

Maint Ops

| <u>Dept No</u> | <u>Expense Name</u> | FY 2019-20 Actual | FY 2020-21 Actual thru 12/31/20 | FY 2021-22 Proposed Budget | FY 2022-23 Proposed Budget | Incr/(Decr) |
|--|-------------------------|----------------------|---------------------------------------|----------------------------------|----------------------------------|----------------|
| <u>Operations Administration</u> | | | | | | |
| 805 | Regular Labor | 998,306 | 432,968 | 976,300 | 1,023,100 | 46,800 |
| 805 | Overtime Labor | 100 | 0 | 0 | 0 | 0 |
| 805 | Employee Benefits | 177,946 | 56,985 | 688,700 | 729,400 | 40,700 |
| 805 | Electricity | 14,322 | (14,322) | 0 | 0 | 0 |
| 805 | Telecommunication | 2,119 | 835 | 4,700 | 4,700 | 0 |
| 805 | Operating Supplies | 3,691 | 2,234 | 6,750 | 6,750 | 0 |
| 805 | Printing | 51 | 0 | 1,000 | 1,000 | 0 |
| 805 | Postage | 305 | 0 | 1,000 | 1,000 | 0 |
| 805 | Office Supplies | 10,068 | 6,268 | 12,000 | 12,000 | 0 |
| 805 | Rep & Maint IRWD | 953 | 284 | 0 | 0 | 0 |
| 805 | Personnel Training | 57,167 | 3,899 | 40,500 | 51,000 | 10,500 |
| 805 | Other Professional Fees | 27,830 | 6,072 | 17,800 | 27,800 | 10,000 |
| 805 | Equipment Usage | 1 | 0 | 0 | 0 | 0 |
| 805 | Commuter Program | (69) | 0 | 0 | 0 | 0 |
| Total Operations Administration | | 1,292,790 | 495,223 | 1,748,750 | 1,856,750 | 108,000 |

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2021-22

| Maint. Ops | | FY 2019-20 | FY 2020-21 | FY 2020-21 | FY 2021-22 | |
|----------------------------------|---------------------|------------------|-------------------------|------------------|--------------------|----------------|
| <u>Dept No</u> | <u>Expense Name</u> | Actual | Actual thru 12/31/20 | Budget | Proposed Budget | Incr/(Decr) |
| Electrical Services | | | | | | |
| 820 | Regular Labor | 1,201,017 | 543,027 | 1,243,537 | 1,259,300 | 15,763 |
| 820 | Overtime Labor | 131,328 | 62,416 | 169,356 | 166,900 | (2,456) |
| 820 | Employee Benefits | 214,308 | 79,327 | 184,217 | 897,300 | 713,083 |
| 820 | Contract Labor | 28,917 | 53,043 | 295,008 | 0 | (295,008) |
| 820 | Operating Supplies | 498,542 | 228,083 | 543,700 | 543,500 | (200) |
| 820 | Rep & Maint IRWD | 567,478 | 567,803 | 1,473,292 | 1,296,624 | (176,668) |
| 820 | Personnel Training | 74 | 0 | 0 | 0 | 0 |
| 820 | Equipment Usage | 7 | 0 | 0 | 0 | 0 |
| 820 | Safety | 2,667 | 619 | 18,400 | 18,400 | 0 |
| Total Electrical Services | | 2,644,339 | 1,534,318 | 3,927,510 | 4,182,024 | 254,514 |

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2022-23

Maint. Ops

| <u>Dept No</u> | <u>Expense Name</u> | FY 2019-20 Actual | FY 2020-21 Actual thru 12/31/20 | FY 2021-22 Proposed Budget | FY 2022-23 Proposed Budget | Incr/(Decr) |
|----------------------------------|---------------------|----------------------|---------------------------------------|----------------------------------|----------------------------------|----------------|
| <u>Electrical Services</u> | | | | | | |
| 820 | Regular Labor | 1,201,017 | 543,027 | 1,259,300 | 1,306,100 | 46,800 |
| 820 | Overtime Labor | 131,328 | 62,416 | 166,900 | 166,900 | 0 |
| 820 | Employee Benefits | 214,308 | 79,327 | 897,300 | 939,100 | 41,800 |
| 820 | Contract Labor | 28,917 | 53,043 | 0 | 0 | 0 |
| 820 | Operating Supplies | 498,542 | 228,083 | 543,500 | 543,500 | 0 |
| 820 | Rep & Maint IRWD | 567,478 | 567,803 | 1,296,624 | 1,356,374 | 59,750 |
| 820 | Personnel Training | 74 | 0 | 0 | 0 | 0 |
| 820 | Equipment Usage | 7 | 0 | 0 | 0 | 0 |
| 820 | Safety | 2,667 | 619 | 18,400 | 18,400 | 0 |
| Total Electrical Services | | 2,644,339 | 1,534,318 | 4,182,024 | 4,330,374 | 148,350 |

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2021-22

| Maint. Ops | | FY 2019-20 | FY 2020-21 | FY 2020-21 | FY 2021-22 | |
|----------------------------|-------------------------|------------|-------------------------|------------|--------------------|-------------|
| <u>Dept No</u> | <u>Expense Name</u> | Actual | Actual thru 12/31/20 | Budget | Proposed Budget | Incr/(Decr) |
| Asset Systems | | | | | | |
| 830 | Regular Labor | 284,108 | 133,868 | 453,408 | 440,100 | (13,308) |
| 830 | Overtime Labor | 2,715 | 0 | 3,500 | 0 | (3,500) |
| 830 | Employee Benefits | 47,786 | 10,386 | 67,167 | 316,900 | 249,733 |
| 830 | Operating Supplies | 42 | 6 | 200 | 1,650 | 1,450 |
| 830 | Personnel Training | 200 | 15 | 3,600 | 8,600 | 5,000 |
| 830 | Other Professional Fees | 88,631 | 0 | 200,000 | 200,000 | 0 |
| 830 | Equipment Usage | 0 | 0 | 0 | 0 | 0 |
| Total Asset Systems | | 423,483 | 144,276 | 727,875 | 967,250 | 239,375 |

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2022-23

| Maint. Ops | | FY 2019-20 Actual | FY 2020-21 Actual thru 12/31/20 | FY 2021-22 Proposed Budget | FY 2022-23 Proposed Budget | Incr/(Decr) |
|----------------------------|-------------------------|----------------------|---------------------------------------|----------------------------------|----------------------------------|-------------|
| <u>Dept No</u> | <u>Expense Name</u> | | | | | |
| <u>Asset Systems</u> | | | | | | |
| 830 | Regular Labor | 284,108 | 133,868 | 440,100 | 460,700 | 20,600 |
| 830 | Overtime Labor | 2,715 | 0 | 0 | 0 | 0 |
| 830 | Employee Benefits | 47,786 | 10,386 | 316,900 | 332,300 | 15,400 |
| 830 | Operating Supplies | 42 | 6 | 1,650 | 1,650 | 0 |
| 830 | Personnel Training | 200 | 15 | 8,600 | 12,600 | 4,000 |
| 830 | Other Professional Fees | 88,631 | 0 | 200,000 | 200,000 | 0 |
| 830 | Equipment Usage | 0 | 0 | 0 | 0 | 0 |
| Total Asset Systems | | 423,483 | 144,276 | 967,250 | 1,007,250 | 40,000 |

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2021-22

| Maint. Ops | | FY 2019-20 | FY 2020-21 | FY 2020-21 | FY 2021-22 | |
|----------------------------------|--------------------|------------|-------------------------|------------|--------------------|-------------|
| Dept No | Expense Name | Actual | Actual thru 12/31/20 | Budget | Proposed Budget | Incr/(Decr) |
| <u>Mechanical Services</u> | | | | | | |
| 840 | Regular Labor | 1,124,885 | 636,728 | 1,304,321 | 1,309,300 | 4,979 |
| 840 | Overtime Labor | 143,373 | 54,637 | 110,450 | 128,500 | 18,050 |
| 840 | Employee Benefits | 198,520 | 50,683 | 193,221 | 936,200 | 742,979 |
| 840 | Contract Labor | 0 | 0 | 80,000 | 0 | (80,000) |
| 840 | Operating Supplies | 573,673 | 167,286 | 500,200 | 553,000 | 52,800 |
| 840 | Rep & Maint IRWD | 1,115,041 | 658,778 | 1,112,600 | 1,486,000 | 373,400 |
| 840 | Personnel Training | 832 | 454 | 0 | 0 | 0 |
| 840 | Equipment Usage | 4 | (38) | 0 | 0 | 0 |
| 840 | Safety | 5,208 | 0 | 5,000 | 5,000 | 0 |
| 840 | Commuter Program | (369) | 0 | 0 | 0 | 0 |
| Total Mechanical Services | | 3,161,167 | 1,568,527 | 3,305,792 | 4,418,000 | 1,112,208 |

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2022-23

Maint. Ops

| <u>Dept No</u> | <u>Expense Name</u> | FY 2019-20 Actual | FY 2020-21 Actual thru 12/31/20 | FY 2021-22 Proposed Budget | FY 2022-23 Proposed Budget | Incr/(Decr) |
|----------------------------------|---------------------|----------------------|---------------------------------------|----------------------------------|----------------------------------|----------------|
| <u>Mechanical Services</u> | | | | | | |
| 840 | Regular Labor | 1,124,885 | 636,728 | 1,309,300 | 1,368,100 | 58,800 |
| 840 | Overtime Labor | 143,373 | 54,637 | 128,500 | 128,500 | 0 |
| 840 | Employee Benefits | 198,520 | 50,683 | 936,200 | 982,800 | 46,600 |
| 840 | Contract Labor | 0 | 0 | 0 | 0 | 0 |
| 840 | Operating Supplies | 573,673 | 167,286 | 553,000 | 553,000 | 0 |
| 840 | Rep & Maint IRWD | 1,115,041 | 658,778 | 1,486,000 | 1,486,000 | 0 |
| 840 | Personnel Training | 832 | 454 | 0 | 0 | 0 |
| 840 | Equipment Usage | 4 | (38) | 0 | 0 | 0 |
| 840 | Safety | 5,208 | 0 | 5,000 | 5,000 | 0 |
| 840 | Commuter Program | (369) | 0 | 0 | 0 | 0 |
| Total Mechanical Services | | 3,161,167 | 1,568,527 | 4,418,000 | 4,523,400 | 105,400 |

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2021-22

| Maint. Ops | | FY 2019-20 | FY 2020-21 | FY 2020-21 | FY 2021-22 | |
|----------------------------------|--------------------------|------------------|-------------------------|------------------|--------------------|----------------|
| <u>Dept No</u> | <u>Expense Name</u> | Actual | Actual thru 12/31/20 | Budget | Proposed Budget | Incr/(Decr) |
| Facilities Services | | | | | | |
| 850 | Regular Labor | 779,120 | 343,487 | 689,739 | 709,300 | 19,561 |
| 850 | Overtime Labor | 46,302 | 22,364 | 42,000 | 0 | (42,000) |
| 850 | Employee Benefits | 137,499 | 46,918 | 102,177 | 505,000 | 402,823 |
| 850 | Contract Labor | 24,737 | 0 | 0 | 0 | 0 |
| 850 | Electricity | 307,329 | 244,011 | 420,000 | 449,983 | 29,983 |
| 850 | Fuel | 32,228 | 11,267 | 20,000 | 20,000 | 0 |
| 850 | Other Utilities | 74,370 | 42,554 | 69,000 | 82,000 | 13,000 |
| 850 | Operating Supplies | 48,826 | 13,051 | 54,000 | 55,200 | 1,200 |
| 850 | Postage | 49 | 0 | 0 | 0 | 0 |
| 850 | Rep & Maint OCSD & Other | 0 | 0 | 7,200 | 7,200 | 0 |
| 850 | Rep & Maint IRWD | 1,980,945 | 1,112,976 | 1,957,400 | 2,109,604 | 152,204 |
| 850 | Engineering Fees | 0 | 175 | 0 | 0 | 0 |
| 850 | Personnel Training | 685 | 92 | 120 | 200 | 80 |
| 850 | Equipment Usage | 2 | 0 | 0 | 0 | 0 |
| 850 | Mileage Reimbursement | 8,959 | 516 | 0 | 0 | 0 |
| 850 | Conservation | (1) | 0 | 0 | 0 | 0 |
| Total Facilities Services | | 3,441,050 | 1,837,412 | 3,361,636 | 3,938,487 | 576,851 |

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2022-23

| Maint. Ops | | FY 2019-20 | FY 2020-21 | FY 2021-22 | FY 2022-23 | |
|----------------------------------|--------------------------|------------------|-------------------------|--------------------|--------------------|---------------|
| <u>Dept No</u> | <u>Expense Name</u> | Actual | Actual thru 12/31/20 | Proposed Budget | Proposed Budget | Incr/(Decr) |
| <u>Facilities Services</u> | | | | | | |
| 850 | Regular Labor | 779,120 | 343,487 | 709,300 | 738,700 | 29,400 |
| 850 | Overtime Labor | 46,302 | 22,364 | 0 | 0 | 0 |
| 850 | Employee Benefits | 137,499 | 46,918 | 505,000 | 528,600 | 23,600 |
| 850 | Contract Labor | 24,737 | 0 | 0 | 0 | 0 |
| 850 | Electricity | 307,329 | 244,011 | 449,983 | 472,569 | 22,586 |
| 850 | Fuel | 32,228 | 11,267 | 20,000 | 20,000 | 0 |
| 850 | Other Utilities | 74,370 | 42,554 | 82,000 | 82,000 | 0 |
| 850 | Operating Supplies | 48,826 | 13,051 | 55,200 | 55,200 | 0 |
| 850 | Postage | 49 | 0 | 0 | 0 | 0 |
| 850 | Rep & Maint OCSD & Other | 0 | 0 | 7,200 | 7,200 | 0 |
| 850 | Rep & Maint IRWD | 1,980,945 | 1,112,976 | 2,109,604 | 2,126,804 | 17,200 |
| 850 | Engineering Fees | 0 | 175 | 0 | 0 | 0 |
| 850 | Personnel Training | 685 | 92 | 200 | 200 | 0 |
| 850 | Equipment Usage | 2 | 0 | 0 | 0 | 0 |
| 850 | Mileage Reimbursement | 8,959 | 516 | 0 | 0 | 0 |
| 850 | Conservation | (1) | 0 | 0 | 0 | 0 |
| Total Facilities Services | | 3,441,050 | 1,837,412 | 3,938,487 | 4,031,273 | 92,786 |

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2021-22

| Maint. Ops | | FY 2019-20 | FY 2020-21 | FY 2020-21 | FY 2021-22 | |
|-----------------------------|----------------------------|------------|-------------------------|------------|--------------------|-------------|
| Dept No | Expense Name | Actual | Actual thru 12/31/20 | Budget | Proposed Budget | Incr/(Decr) |
| Fleet Services | | | | | | |
| 870 | Regular Labor | 441,186 | 217,470 | 409,541 | 445,700 | 36,159 |
| 870 | Overtime Labor | 7,925 | 1,824 | 8,000 | 8,000 | 0 |
| 870 | Employee Benefits | 79,625 | 34,504 | 61,410 | 312,200 | 250,790 |
| 870 | Fuel | 581,717 | 298,839 | 640,000 | 704,000 | 64,000 |
| 870 | Other Utilities | 66,759 | 39,182 | 64,000 | 80,000 | 16,000 |
| 870 | Operating Supplies | 18,600 | 616 | 7,700 | 7,700 | 0 |
| 870 | Permits, Licenses and Fees | 3,416 | 2,145 | 13,500 | 13,500 | 0 |
| 870 | Equipment Rental | 0 | 0 | 8,000 | 8,000 | 0 |
| 870 | Rep & Maint IRWD | 480,385 | 342,573 | 640,000 | 700,000 | 60,000 |
| 870 | Personnel Training | 930 | 554 | 1,700 | 1,700 | 0 |
| 870 | Equipment Usage | 0 | 0 | 0 | 0 | 0 |
| 870 | Mileage Reimbursement | 167,692 | 76,917 | 150,000 | 158,000 | 8,000 |
| Total Fleet Services | | 1,848,235 | 1,014,624 | 2,003,851 | 2,438,800 | 434,949 |
| Total Maint. Ops | | 12,811,064 | 6,594,379 | 14,615,567 | 17,693,311 | 3,077,744 |

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2022-23

| Maint. Ops | | FY 2019-20 Actual | FY 2020-21 Actual thru 12/31/20 | FY 2021-22 Proposed Budget | FY 2022-23 Proposed Budget | Incr/(Decr) |
|-----------------------------|----------------------------|----------------------|---------------------------------------|----------------------------------|----------------------------------|----------------|
| <u>Dept No</u> | <u>Expense Name</u> | | | | | |
| Fleet Services | | | | | | |
| 870 | Regular Labor | 441,186 | 217,470 | 445,700 | 464,800 | 19,100 |
| 870 | Overtime Labor | 7,925 | 1,824 | 8,000 | 8,000 | 0 |
| 870 | Employee Benefits | 79,625 | 34,504 | 312,200 | 328,900 | 16,700 |
| 870 | Fuel | 581,717 | 298,839 | 704,000 | 704,000 | 0 |
| 870 | Other Utilities | 66,759 | 39,182 | 80,000 | 80,000 | 0 |
| 870 | Operating Supplies | 18,600 | 616 | 7,700 | 7,700 | 0 |
| 870 | Permits, Licenses and Fees | 3,416 | 2,145 | 13,500 | 13,500 | 0 |
| 870 | Equipment Rental | 0 | 0 | 8,000 | 8,000 | 0 |
| 870 | Rep & Maint IRWD | 480,385 | 342,573 | 700,000 | 700,000 | 0 |
| 870 | Personnel Training | 930 | 554 | 1,700 | 1,700 | 0 |
| 870 | Equipment Usage | 0 | 0 | 0 | 0 | 0 |
| 870 | Mileage Reimbursement | 167,692 | 76,917 | 158,000 | 158,000 | 0 |
| Total Fleet Services | | 1,848,235 | 1,014,624 | 2,438,800 | 2,474,600 | 35,800 |
| Total Maint. Ops | | 12,811,064 | 6,594,379 | 17,693,311 | 18,223,647 | 530,336 |



SAFETY

OPERATING BUDGET SUMMARY

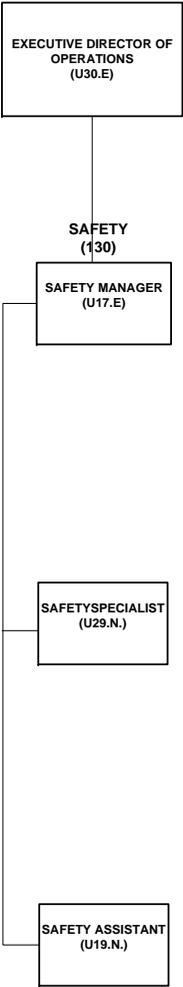
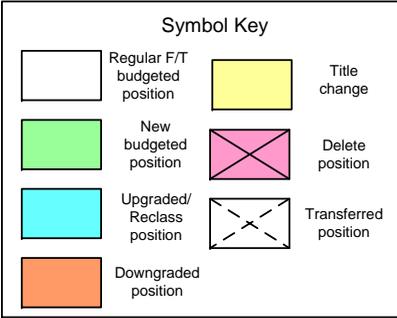
Program Description

The mission of the Safety Department is to administer a Safety Program that supports the District's efforts to provide a safe work environment for employees. The Safety Department administers training, maintains and updates Safe Work Practices (SWP's), supports incident investigations by capturing pertinent data for analysis, coordinates emergency preparedness, submits regulatory reports and provides safety expertise and advice.

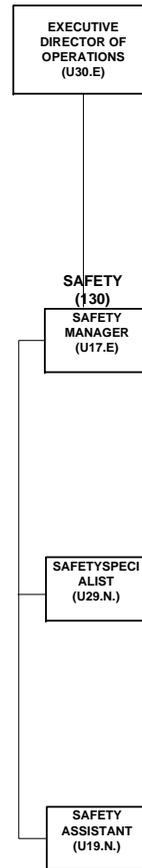
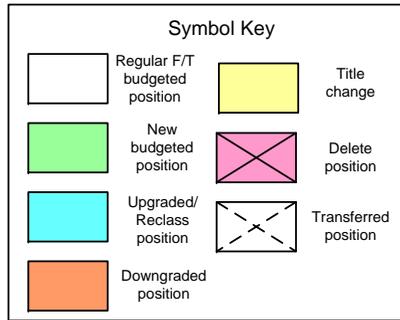
Major Goals

- Meet the Department's adopted Safety budget;
- Improve the District's Accident Investigation program by implementing a "5 Whys" approach. This approach will seek to find the root cause of accidents so that programs can be developed and implemented that educate employees and help minimize recurring errors;
- Train management and employees on safe work practices;
- Conduct an evaluation to assess Senior Staff and Management on practices and characteristics linked to safety climate, culture, and outcomes. Implement customized leadership training to bridge gaps and enhance individual and team safety performance;
- Revitalize the "near miss" reporting program by renaming it the "Good Catch Program." This will be an action-oriented reporting process where employees are rewarded for preventing accidents;
- Implement an internal fall protection and competent person equipment inspections program;
- Solicit feedback on eight (8) SWP's and improve procedures when necessary;
- Utilize the General Safety Committee to update the physical conditions checklists;
- Continue to improve emergency preparedness by updating procedures, performing drills and employing tools to aid in communications;
- Develop, implement and maintain a Hazard Mitigation Plan which will identify, assess, and reduce long-term risk to life and property; and,
- Replace the CodeRed communication system with an intuitive and comprehensive emergency alert, mass notification and incident reporting system.

**IRVINE RANCH WATER DISTRICT
SAFETY
FISCAL YEAR 2021-22**



**IRVINE RANCH WATER DISTRICT
SAFETY
FISCAL YEAR 2022-23**



Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2021-22

| Safety | | FY 2019-20 | FY 2020-21 | FY 2020-21 | FY 2021-22 | |
|---------------------|----------------------------|------------|-------------------------|------------|--------------------|-------------|
| Dept No | Expense Name | Actual | Actual thru 12/31/20 | Budget | Proposed Budget | Incr/(Decr) |
| Safety | | | | | | |
| 130 | Regular Labor | 222,330 | 127,428 | 246,138 | 243,100 | (3,038) |
| 130 | Overtime Labor | (15,014) | 2,634 | 14,000 | 6,000 | (8,000) |
| 130 | Employee Benefits | 39,237 | 9,659 | 36,463 | 169,500 | 133,037 |
| 130 | Contract Labor | 25,186 | 19,769 | 76,400 | 60,000 | (16,400) |
| 130 | Operating Supplies | 93,437 | 29,638 | 124,700 | 108,705 | (15,995) |
| 130 | Printing | 16,691 | 309 | 4,000 | 4,000 | 0 |
| 130 | Postage | 411 | 511 | 500 | 500 | 0 |
| 130 | Permits, Licenses and Fees | 30,783 | 25,613 | 55,000 | 35,500 | (19,500) |
| 130 | Office Supplies | 42,368 | 8,265 | 39,000 | 31,000 | (8,000) |
| 130 | Data Processing | 0 | 1,146 | 0 | 0 | 0 |
| 130 | Personnel Training | 300,479 | 90,840 | 240,000 | 203,500 | (36,500) |
| 130 | Personnel Physicals | 13,646 | 611 | 8,000 | 12,000 | 4,000 |
| 130 | Other Professional Fees | 420,387 | 153,022 | 343,000 | 225,000 | (118,000) |
| 130 | Equipment Usage | 0 | 0 | 0 | 0 | 0 |
| 130 | Safety | 104,418 | 12,281 | 70,000 | 31,000 | (39,000) |
| 130 | Commuter Program | (48,053) | (154) | 0 | 0 | 0 |
| Total Safety | | 1,246,305 | 481,572 | 1,257,201 | 1,129,805 | (127,396) |
| Total Safety | | 1,246,305 | 481,572 | 1,257,201 | 1,129,805 | (127,396) |

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2022-23

| Safety | | FY 2019-20 Actual | FY 2020-21 Actual thru 12/31/20 | FY 2021-22 Proposed Budget | FY 2022-23 Proposed Budget | Incr/(Decr) |
|---------------------|----------------------------|----------------------|---------------------------------------|----------------------------------|----------------------------------|----------------|
| <u>Dept No</u> | <u>Expense Name</u> | | | | | |
| <u>Safety</u> | | | | | | |
| 130 | Regular Labor | 222,330 | 127,428 | 243,100 | 253,700 | 10,600 |
| 130 | Overtime Labor | (15,014) | 2,634 | 6,000 | 6,120 | 120 |
| 130 | Employee Benefits | 39,237 | 9,659 | 169,500 | 177,200 | 7,700 |
| 130 | Contract Labor | 25,186 | 19,769 | 60,000 | 60,000 | 0 |
| 130 | Operating Supplies | 93,437 | 29,638 | 108,705 | 113,450 | 4,745 |
| 130 | Printing | 16,691 | 309 | 4,000 | 4,000 | 0 |
| 130 | Postage | 411 | 511 | 500 | 500 | 0 |
| 130 | Permits, Licenses and Fees | 30,783 | 25,613 | 35,500 | 35,500 | 0 |
| 130 | Office Supplies | 42,368 | 8,265 | 31,000 | 31,000 | 0 |
| 130 | Data Processing | 0 | 1,146 | 0 | 0 | 0 |
| 130 | Personnel Training | 300,479 | 90,840 | 203,500 | 203,500 | 0 |
| 130 | Personnel Physicals | 13,646 | 611 | 12,000 | 12,000 | 0 |
| 130 | Other Professional Fees | 420,387 | 153,022 | 225,000 | 200,000 | (25,000) |
| 130 | Equipment Usage | 0 | 0 | 0 | 0 | 0 |
| 130 | Safety | 104,418 | 12,281 | 31,000 | 31,000 | 0 |
| 130 | Commuter Program | (48,053) | (154) | 0 | 0 | 0 |
| Total Safety | | 1,246,305 | 481,572 | 1,129,805 | 1,127,970 | (1,835) |
| Total Safety | | 1,246,305 | 481,572 | 1,129,805 | 1,127,970 | (1,835) |



RECYCLED WATER USE and CROSS-CONNECTION CONTROL

OPERATING BUDGET SUMMARY

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, Cross-Connection plays an important role by implementing programs to protect public health.

Recycled Water 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. IRWD currently serves almost 6,200 recycled water meters including:

- More than 125 commercial dual-plumbed buildings where recycled water is used for flushing toilets and urinals,
- More than 25 cooling towers, and
- More than 675 single-family lots where recycled water is used for irrigating both the front and back yards.

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.

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 use site inspection and testing program. During the development process, staff reviews project plans and inspects for compliance with State and local requirements. Once the sites are activated, IRWD has the responsibility to monitor those sites for on-going compliance with State and local requirements. This is done by having a recycled water use site inspection and testing program where each site is periodically inspected for proper system identification, hours of operation, avoiding runoff, to determine that there are no cross connections, and to ensure that Site Supervisors understand their roles and responsibilities. This work is currently accomplished by both staff and contractors but a transition is underway. As full build-out of the service area



RECYCLED WATER USE and CROSS-CONNECTION CONTROL

OPERATING BUDGET SUMMARY

approaches and fewer new recycled water use sites are added, staff will gradually shift its focus to a more active role in conducting the on-going recycled water use site inspection and testing aspects of IRWD's program. This will correspond to a reduction in work by our contractors.

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 for 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. 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.

Major Goals

RECYCLED WATER DEVELOPMENT

- Expand the use of recycled water consistent with Title 22 of the California Code of Regulations;
- Convert a minimum of 100 acre-feet of imported water use to recycled 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;



RECYCLED WATER USE and CROSS-CONNECTION CONTROL

OPERATING BUDGET SUMMARY

- Remain active in the Orange County Chapter of WaterReuse California; and,
- Seek opportunities to dual-plumb commercial buildings, hotels, condominiums, and apartment properties.

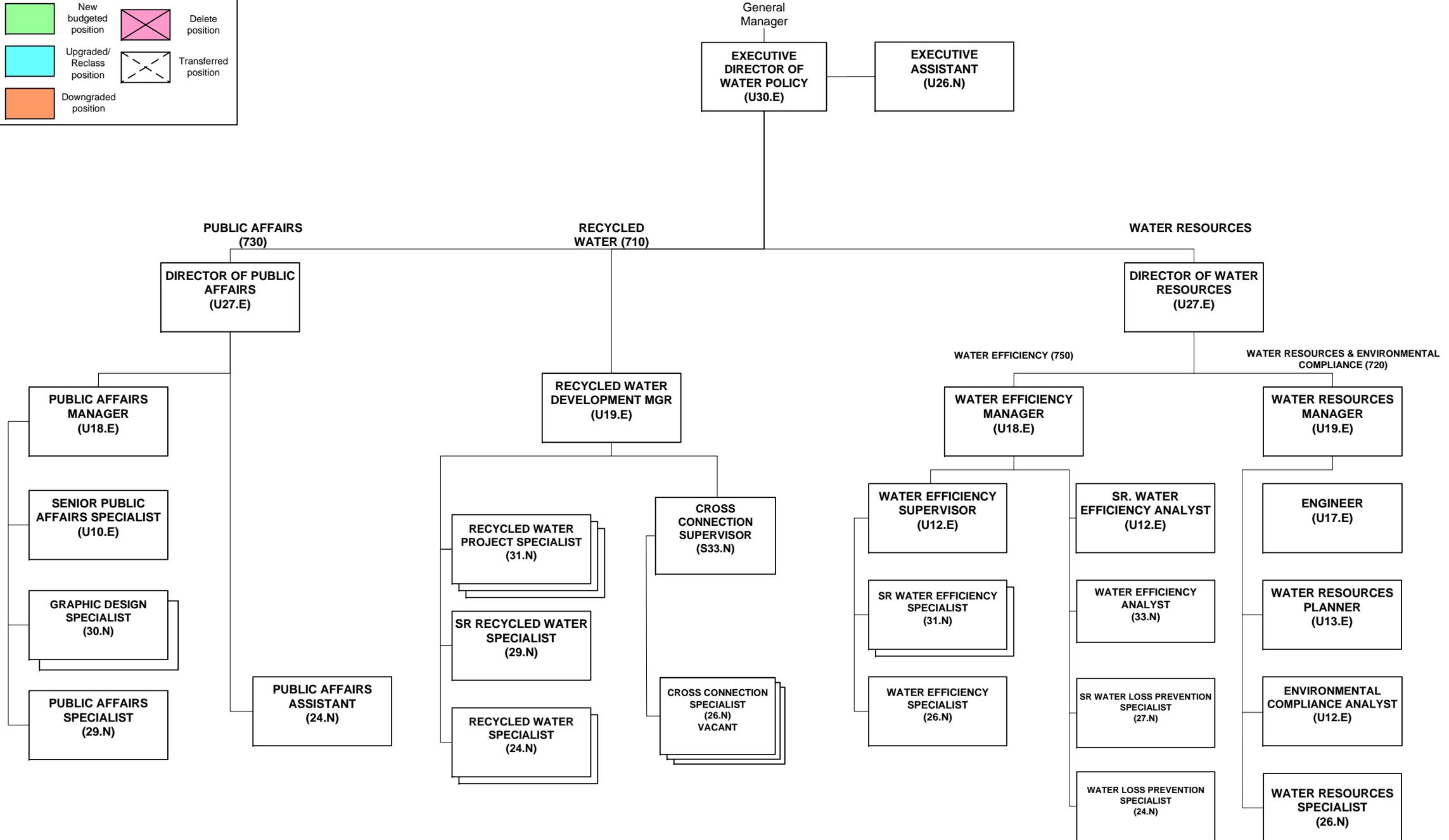
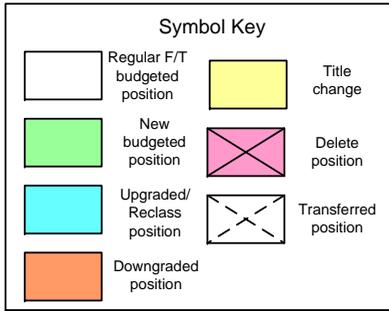
RECYCLED WATER USE SITE INSPECTION & TESTING

- Conduct periodic visual inspections, cross-connection tests, and Site Supervisor training at more than 1,500 recycled water use sites;
- Inform property owners of the things that need to be done to bring the site into compliance with State and local requirements; and,
- Keep records of the site inspection, site testing and Site Supervisor training.

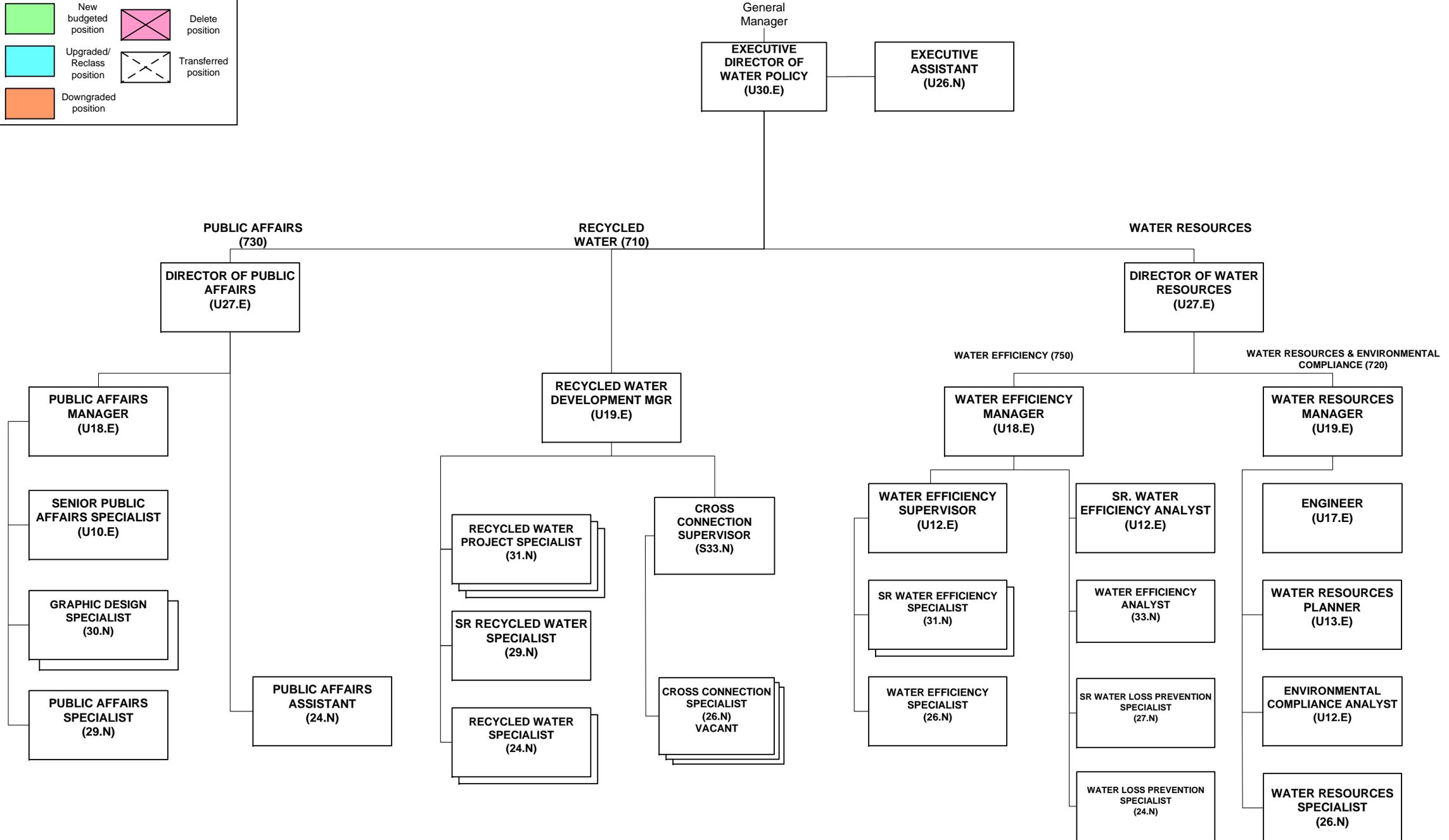
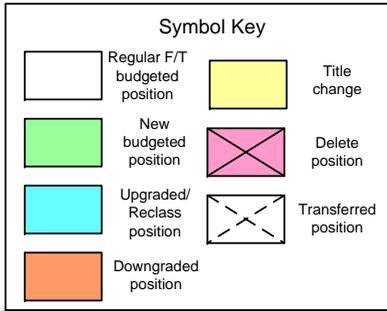
CROSS-CONNECTION CONTROL

- 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,
- Monitor progress of the SWRCB's development of the Policy Handbook (which replaces Title 17), provide input during the process, and revise IRWD's cross-connection program as necessary.

**IRVINE RANCH WATER DISTRICT
WATER RESOURCES AND POLICY
FISCAL YEAR 2021-22**



**IRVINE RANCH WATER DISTRICT
WATER RESOURCES AND POLICY
FISCAL YEAR 2022-23**



Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2021-22

| Wtr Policy | | FY 2019-20 | FY 2020-21 | FY 2020-21 | FY 2021-22 | |
|---|----------------------------|------------|-------------------------|------------|--------------------|-------------|
| Dept No | Expense Name | Actual | Actual thru 12/31/20 | Budget | Proposed Budget | Incr/(Decr) |
| <u>Water Resources and Policy</u> | | | | | | |
| 710 | Regular Labor | 1,178,645 | 558,320 | 752,503 | 1,186,200 | 433,697 |
| 710 | Overtime Labor | 1,708 | 2,243 | 5,400 | 5,300 | (100) |
| 710 | Employee Benefits | 493,662 | 221,675 | 225,913 | 871,500 | 645,587 |
| 710 | Contract Labor | 0 | 0 | 16,500 | 0 | (16,500) |
| 710 | Operating Supplies | 8,108 | 1,100 | 5,000 | 3,200 | (1,800) |
| 710 | Postage | 839 | 224 | 1,200 | 1,200 | 0 |
| 710 | Permits, Licenses and Fees | 36,009 | 13,576 | 60,000 | 40,000 | (20,000) |
| 710 | Office Supplies | 3,219 | 528 | 2,800 | 2,700 | (100) |
| 710 | Rep & Maint IRWD | 12,955 | 838 | 2,500 | 11,400 | 8,900 |
| 710 | Personnel Training | 7,245 | (6) | 15,300 | 11,000 | (4,300) |
| 710 | Other Professional Fees | 308,831 | 146,972 | 442,800 | 408,050 | (34,750) |
| 710 | Equipment Usage | 1 | 0 | 0 | 0 | 0 |
| Total Water Resources and Policy | | 2,051,222 | 945,473 | 1,529,917 | 2,540,550 | 1,010,633 |

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2022-23

| Wtr Policy | | FY 2019-20 Actual | FY 2020-21 Actual thru 12/31/20 | FY 2021-22 Proposed Budget | FY 2022-23 Proposed Budget | Incr/(Decr) |
|---|----------------------------|----------------------|---------------------------------------|----------------------------------|----------------------------------|---------------|
| <u>Dept No</u> | <u>Expense Name</u> | | | | | |
| <u>Water Resources and Policy</u> | | | | | | |
| 710 | Regular Labor | 1,178,645 | 558,320 | 1,186,200 | 1,235,300 | 49,100 |
| 710 | Overtime Labor | 1,708 | 2,243 | 5,300 | 4,400 | (900) |
| 710 | Employee Benefits | 493,662 | 221,675 | 871,500 | 913,300 | 41,800 |
| 710 | Contract Labor | 0 | 0 | 0 | 0 | 0 |
| 710 | Operating Supplies | 8,108 | 1,100 | 3,200 | 3,200 | 0 |
| 710 | Postage | 839 | 224 | 1,200 | 1,200 | 0 |
| 710 | Permits, Licenses and Fees | 36,009 | 13,576 | 40,000 | 40,000 | 0 |
| 710 | Office Supplies | 3,219 | 528 | 2,700 | 2,800 | 100 |
| 710 | Rep & Maint IRWD | 12,955 | 838 | 11,400 | 11,400 | 0 |
| 710 | Personnel Training | 7,245 | (6) | 11,000 | 15,000 | 4,000 |
| 710 | Other Professional Fees | 308,831 | 146,972 | 408,050 | 383,800 | (24,250) |
| 710 | Equipment Usage | 1 | 0 | 0 | 0 | 0 |
| Total Water Resources and Policy | | 2,051,222 | 945,473 | 2,540,550 | 2,610,400 | 69,850 |



WATER RESOURCES AND ENVIRONMENTAL COMPLIANCE

OPERATING BUDGET SUMMARY

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: Water Resources and Environmental Compliance 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, Water Resources and Environmental Compliance 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 PVID/MWD existing 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, the Sustainable Groundwater Management Act (SGMA) compliance, energy efficiency, greenhouse gas reporting and 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

Major Goals

WATER RESOURCES

- Bank supplemental water for IRWD, develop extraction and additional recharge and storage capacity as needed for IRWD and its water banking partners;
- Manage the completion of planning and feasibility studies 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 a MWD Policy for the delivery of MWD system water to IRWD's Kern County Banking Projects;
- Prepare the District's Urban Water Management Plan for 2020 for Board adoption in June 2021;
- Evaluate the long term costs and benefits of the District's potential participation in the Sites Reservoir Project and the Delta Conveyance Project;
- Finalize agreements for a pilot program through which other Orange County water agencies can participate in IRWD's water banking program;
- Implement long-term unbalanced exchange agreements with Central Coast Water Authority, Mojave Water Agency and others for IRWD's water banking program;
- Monitor IRWD's SGMA compliance for its Strand Ranch and Stockdale West properties under 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 under the 2020 SWP Contract Amendment;
- Finalize a business plan for IRWD's water banking projects and programs;
- Implement existing long-term exchange program to facilitate exports 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;
- Investigate cost effective opportunities to purchase State Water Project Table A entitlement; and,
- Prepare and submit grant funding applications for eligible IRWD capital projects including Reclamation's WaterSMART funding.

ENVIRONMENTAL COMPLIANCE

- Complete the work and studies associated with the EIR for the Syphon Reservoir Improvement Project; and,



WATER RESOURCES AND ENVIRONMENTAL COMPLIANCE

OPERATING BUDGET SUMMARY

- 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 Exemption

ENERGY AND OTHER PLANNING

- Update the District's Salt Management Model and Plan in coordination with the District's Sewer Treatment Master Plan;
- Update the District's Energy and Greenhouse Gas Masterplan;
- Evaluate 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;
- Evaluate opportunities for IRWD participation in a Community Choice Aggregation Program; and,
- 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 2021-22

| Wtr Policy | | FY 2019-20 | FY 2020-21 | FY 2020-21 | FY 2021-22 | |
|---|----------------------------|------------|-------------------------|------------|--------------------|-------------|
| Dept No | Expense Name | Actual | Actual thru 12/31/20 | Budget | Proposed Budget | Incr/(Decr) |
| <u>Water Resources and Environmental Compliance</u> | | | | | | |
| 720 | Regular Labor | 661,045 | 334,511 | 1,071,480 | 658,400 | (413,080) |
| 720 | Overtime Labor | 1,470 | 1,576 | 400 | 400 | 0 |
| 720 | Employee Benefits | 116,661 | 36,553 | 158,728 | 490,600 | 331,872 |
| 720 | Electricity | 0 | 0 | 155,700 | 15,000 | (140,700) |
| 720 | Postage | 194 | 0 | 0 | 100 | 100 |
| 720 | Permits, Licenses and Fees | 715,443 | 679,706 | 652,450 | 734,900 | 82,450 |
| 720 | Office Supplies | 75 | 737 | 0 | 100 | 100 |
| 720 | Rep & Maint IRWD | 751,916 | 588,251 | 632,549 | 812,000 | 179,451 |
| 720 | Personnel Training | 4,023 | (369) | 0 | 3,000 | 3,000 |
| 720 | Other Professional Fees | 209,386 | 62,494 | 148,800 | 153,100 | 4,300 |
| Total Water Resources and Environmental Compliance | | 2,460,213 | 1,703,458 | 2,820,107 | 2,867,600 | 47,493 |

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2022-23

Wtr Policy

| <u>Dept No</u> | <u>Expense Name</u> | FY 2019-20 Actual | FY 2020-21 Actual thru 12/31/20 | FY 2021-22 Proposed Budget | FY 2022-23 Proposed Budget | Incr/(Decr) |
|---|----------------------------|----------------------|---------------------------------------|----------------------------------|----------------------------------|---------------|
| <u>Water Resources and Environmental Compliance</u> | | | | | | |
| 720 | Regular Labor | 661,045 | 334,511 | 658,400 | 690,000 | 31,600 |
| 720 | Overtime Labor | 1,470 | 1,576 | 400 | 400 | 0 |
| 720 | Employee Benefits | 116,661 | 36,553 | 490,600 | 517,300 | 26,700 |
| 720 | Electricity | 0 | 0 | 15,000 | 156,700 | 141,700 |
| 720 | Postage | 194 | 0 | 100 | 100 | 0 |
| 720 | Permits, Licenses and Fees | 715,443 | 679,706 | 734,900 | 689,800 | (45,100) |
| 720 | Office Supplies | 75 | 737 | 100 | 100 | 0 |
| 720 | Rep & Maint IRWD | 751,916 | 588,251 | 812,000 | 720,000 | (92,000) |
| 720 | Personnel Training | 4,023 | (369) | 3,000 | 3,000 | 0 |
| 720 | Other Professional Fees | 209,386 | 62,494 | 153,100 | 159,200 | 6,100 |
| Total Water Resources and Environmental Compliance | | 2,460,213 | 1,703,458 | 2,867,600 | 2,936,600 | 69,000 |



PUBLIC AFFAIRS

OPERATING BUDGET SUMMARY

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 environmental compliance program, regulatory requirements and public affairs.

Public Affairs: Public Affairs 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. Public Affairs uses multiple platforms, including websites, print, video, personal contact, education programs, publications, tours, and social media. The IRWD communication program serves the District and its customers by:

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

Major Goals

The COVID-19 pandemic has created new needs — and new opportunities — for customer and community outreach. Public Affairs will focus on outreach that will serve customers and the District during and after the pandemic. Elements of the communication program developed during the pandemic will continue to be of value as life returns to normal.

WATER EFFICIENCY OUTREACH

- Develop and implement an overarching message to educate customers about water efficiency;
- Reach customers spending more time at home by educating them about the beauty of water-efficient landscape and IRWD rebates that can help them replace their lawn;
- Upgrade the RightScapeNow.com website with tools to make it easier for customers to take advantage of opportunities to transform their landscapes;
- 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. Develop videos and interactive tools to permit learning from home;
- Conduct outreach to customers who regularly exceed their monthly water budget; and



PUBLIC AFFAIRS

OPERATING BUDGET SUMMARY

- Teach customers how to save water and money by understanding their water bill.

COMMUNITY OUTREACH

- Develop and implement virtual tour videos and programs for socially distanced customer education and return to in-person tours when able;
- Through transparency and education, assure customers of the quality of IRWD water;
- Develop educational displays for District facilities;
- 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;
- Develop an up-to-date crisis communication plan;
- 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 making the intranet and other tools more accessible, particularly to staff outside the office.

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2021-22

| Wtr Policy | | FY 2019-20 Actual | FY 2020-21 Actual thru 12/31/20 | FY 2020-21 Budget | FY 2021-22 Proposed Budget | Incr/(Decr) |
|-----------------------------|-------------------------|----------------------|---------------------------------------|----------------------|----------------------------------|----------------|
| <u>Dept No</u> | <u>Expense Name</u> | | | | | |
| Public Affairs | | | | | | |
| 730 | Regular Labor | 728,076 | 378,773 | 683,084 | 676,700 | (6,384) |
| 730 | Overtime Labor | 8,935 | 1,154 | 8,000 | 0 | (8,000) |
| 730 | Employee Benefits | 130,256 | 50,216 | 101,932 | 488,300 | 386,368 |
| 730 | Operating Supplies | 29 | 0 | 400 | 400 | 0 |
| 730 | Printing | 30,101 | 13,717 | 55,000 | 60,000 | 5,000 |
| 730 | Postage | 77 | 30 | 200 | 200 | 0 |
| 730 | Office Supplies | 4,552 | 715 | 6,000 | 6,000 | 0 |
| 730 | Personnel Training | 7,922 | 2,359 | 13,052 | 15,052 | 2,000 |
| 730 | Other Professional Fees | 615,033 | 530,447 | 1,700,352 | 1,560,600 | (139,752) |
| 730 | Equipment Usage | 2 | 0 | 0 | 0 | 0 |
| Total Public Affairs | | 1,524,983 | 977,411 | 2,568,020 | 2,807,252 | 239,232 |

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2022-23

| Wtr Policy | | FY 2019-20 Actual | FY 2020-21 Actual thru 12/31/20 | FY 2021-22 Proposed Budget | FY 2022-23 Proposed Budget | Incr/(Decr) |
|-----------------------------|-------------------------|----------------------|---------------------------------------|----------------------------------|----------------------------------|-----------------|
| <u>Dept No</u> | <u>Expense Name</u> | | | | | |
| <u>Public Affairs</u> | | | | | | |
| 730 | Regular Labor | 728,076 | 378,773 | 676,700 | 704,500 | 27,800 |
| 730 | Overtime Labor | 8,935 | 1,154 | 0 | 0 | 0 |
| 730 | Employee Benefits | 130,256 | 50,216 | 488,300 | 512,400 | 24,100 |
| 730 | Operating Supplies | 29 | 0 | 400 | 400 | 0 |
| 730 | Printing | 30,101 | 13,717 | 60,000 | 65,000 | 5,000 |
| 730 | Postage | 77 | 30 | 200 | 200 | 0 |
| 730 | Office Supplies | 4,552 | 715 | 6,000 | 6,000 | 0 |
| 730 | Personnel Training | 7,922 | 2,359 | 15,052 | 15,052 | 0 |
| 730 | Other Professional Fees | 615,033 | 530,447 | 1,560,600 | 1,442,600 | (118,000) |
| 730 | Equipment Usage | 2 | 0 | 0 | 0 | 0 |
| Total Public Affairs | | 1,524,983 | 977,411 | 2,807,252 | 2,746,152 | (61,100) |



WATER EFFICIENCY

OPERATING BUDGET SUMMARY

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/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 pilots and research that maintain IRWD's leadership position are incorporated into the two-year fiscal 2021-23 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 2021-22 and 2022-23.
- 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; and,
- Develop a Water Loss Audit Data Management Report.

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2021-22

| Wtr Policy | | FY 2019-20 Actual | FY 2020-21 Actual thru 12/31/20 | FY 2020-21 Budget | FY 2021-22 Proposed Budget | Incr/(Decr) |
|-------------------------------|-------------------------|----------------------|---------------------------------------|----------------------|----------------------------------|-------------|
| <u>Dept No</u> | <u>Expense Name</u> | | | | | |
| <u>Water Efficiency</u> | | | | | | |
| 750 | Regular Labor | 868,727 | 374,638 | 637,626 | 750,700 | 113,074 |
| 750 | Overtime Labor | 20,799 | 0 | 39,000 | 7,800 | (31,200) |
| 750 | Employee Benefits | (89,566) | 38,553 | 95,198 | 531,800 | 436,602 |
| 750 | Contract Labor | 278,962 | 137,590 | 178,000 | 75,000 | (103,000) |
| 750 | Operating Supplies | 1,944 | 79 | 5,700 | 3,000 | (2,700) |
| 750 | Postage | 63 | 0 | 0 | 0 | 0 |
| 750 | Office Supplies | 0 | 32 | 0 | 0 | 0 |
| 750 | Rep & Maint IRWD | 26,773 | 10,366 | 30,000 | 28,652 | (1,348) |
| 750 | Personnel Training | 17,301 | 165 | 20,000 | 19,000 | (1,000) |
| 750 | Other Professional Fees | 156,739 | 12,102 | 194,000 | 183,375 | (10,625) |
| 750 | Conservation | 209,519 | 95,679 | 1,003,000 | 718,000 | (285,000) |
| Total Water Efficiency | | 1,491,261 | 669,204 | 2,202,524 | 2,317,327 | 114,803 |
| Total Wtr Policy | | 7,527,678 | 4,295,545 | 9,120,568 | 10,532,729 | 1,412,161 |

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2022-23

| Wtr Policy | | FY 2019-20 Actual | FY 2020-21 Actual thru 12/31/20 | FY 2021-22 Proposed Budget | FY 2022-23 Proposed Budget | Incr/(Decr) |
|-------------------------------|-------------------------|----------------------|---------------------------------------|----------------------------------|----------------------------------|-----------------|
| <u>Dept No</u> | <u>Expense Name</u> | | | | | |
| <u>Water Efficiency</u> | | | | | | |
| 750 | Regular Labor | 868,727 | 374,638 | 750,700 | 791,600 | 40,900 |
| 750 | Overtime Labor | 20,799 | 0 | 7,800 | 19,500 | 11,700 |
| 750 | Employee Benefits | (89,566) | 38,553 | 531,800 | 568,000 | 36,200 |
| 750 | Contract Labor | 278,962 | 137,590 | 75,000 | 20,000 | (55,000) |
| 750 | Operating Supplies | 1,944 | 79 | 3,000 | 3,000 | 0 |
| 750 | Postage | 63 | 0 | 0 | 0 | 0 |
| 750 | Office Supplies | 0 | 32 | 0 | 0 | 0 |
| 750 | Rep & Maint IRWD | 26,773 | 10,366 | 28,652 | 28,652 | 0 |
| 750 | Personnel Training | 17,301 | 165 | 19,000 | 20,000 | 1,000 |
| 750 | Other Professional Fees | 156,739 | 12,102 | 183,375 | 129,500 | (53,875) |
| 750 | Conservation | 209,519 | 95,679 | 718,000 | 694,750 | (23,250) |
| Total Water Efficiency | | 1,491,261 | 669,204 | 2,317,327 | 2,275,002 | (42,325) |
| Total Wtr Policy | | 7,527,678 | 4,295,545 | 10,532,729 | 10,568,154 | 35,425 |



GENERAL PLANT

SUMMARY *FY 2021-22*

| <i>(in thousands)</i> | Fiscal Year 2020-21 | Fiscal Year 2021-22 | Increase (Decrease) |
|------------------------------|------------------------|------------------------|------------------------|
| Information Systems | \$ 329 | \$ 619 | \$ 291 |
| Transportation Equipment | 355 | 455 | 101 |
| Laboratory Equipment | 264 | 672 | 408 |
| Work Equipment | 1,089 | 695 | (394) |
| Sub-Total | 2,036 | 2,441 | 405 |
| Less: Vehicle Salvage Value | (54) | (68) | (14) |
| Total General Plant * | 1,982 | 2,373 | 391 |

Fiscal Year 2021-22

| | | |
|----------------------------------|-----------------|----------------|
| Funded by User Charges | \$ 1,815 | 76.49% |
| Funded by Capital Funds | 558 | 23.51% |
| Funded by Overallocation Rev | - | 0.00% |
| Total Fiscal Year 2019-20 | \$ 2,373 | 100.00% |

Fiscal Year 2020-21

| | | |
|----------------------------------|-----------------|----------------|
| Funded by User Charges | \$ 1,679 | 84.71% |
| Funded by Capital Funds | 168 | 8.45% |
| Funded by Overallocation Rev | 135 | 6.83% |
| Total Fiscal Year 2021-22 | \$ 1,982 | 100.00% |

* The asset listing detail is included in the Capital Budget book. Staff will continue to include a summary that identifies the funding source in the Operating Budget.



GENERAL PLANT

SUMMARY *FY 2022-23*

| <i>(in thousands)</i> | Fiscal Year 2021-22 | Fiscal Year 2022-23 | Increase (Decrease) |
|------------------------------|------------------------|------------------------|------------------------|
| Information Systems | \$ 619 | \$ 407 | \$ (212) |
| Transportation Equipment | 455 | 388 | (67) |
| Laboratory Equipment | 672 | 237 | (435) |
| Work Equipment | 695 | 650 | (45) |
| Sub-Total | 2,441 | 1,682 | (759) |
| Less: Vehicle Salvage Value | (68) | (77) | (9) |
| Total General Plant * | 2,373 | 1,605 | (768) |

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% |
| Total Fiscal Year 2019-20 | \$ 1,605 | 100.00% |

Fiscal Year 2021-22

| | | |
|----------------------------------|-----------------|----------------|
| Funded by User Charges | \$ 1,815 | 76.49% |
| Funded by Capital Funds | 558 | 23.51% |
| Funded by Overallocation Rev | - | 0.00% |
| Total Fiscal Year 2022-23 | \$ 2,373 | 100.00% |

* The asset listing detail is included in the Capital Budget book. Staff will continue to include a summary that identifies the funding source in the Operating Budget.



(in thousands)

GENERAL PLANT

ANALYSIS BY DEPARTMENT

FY 2021-22

| Description | Finance and Administrative Services | Engineering | Recycling and Water Operations | Water Quality and Regulatory Compliance | Water Policy | Maintenance | Total |
|------------------------------------|-------------------------------------|-------------|--------------------------------|---|--------------|-----------------|-----------------|
| Information Systems and Technology | \$ 619 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 619 |
| Laboratory Equipment | - | - | - | 672 | - | - | 672 |
| Work Class Equipment | - | - | - | - | - | 695 | 695 |
| Transportation | - | - | - | - | - | 455 | 455 |
| Subtotal | \$ 619 | \$ - | \$ - | \$ 672 | \$ - | \$ 1,150 | \$ 2,441 |
| Less Vehicle Salvage Value | - | - | - | - | - | (68) | (68) |
| Total Fiscal Year 2021-22 | \$ 619 | \$ - | \$ - | \$ 672 | \$ - | \$ 1,082 | \$ 2,373 |
| Total Fiscal Year 2020-21 | 353 | 49 | 1,306 | 264 | - | 10 | 1,982 |
| Increase/(Decrease) | \$ 266 | \$ (49) | \$ (1,306) | \$ 408 | \$ - | \$ 1,072 | \$ 391 |



(in thousands)

GENERAL PLANT

ANALYSIS BY DEPARTMENT

FY 2022-23

| Description | Finance and Administrative Services | Engineering | Recycling and Water Operations | Water Quality and Regulatory Compliance | Water Policy | Maintenance | Total |
|------------------------------------|-------------------------------------|-------------|--------------------------------|---|--------------|---------------|-----------------|
| Information Systems and Technology | \$ 407 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 407 |
| Laboratory Equipment | - | - | - | 237 | - | - | 237 |
| Work Class Equipment | - | - | - | - | - | 650 | 650 |
| Transportation | - | - | - | - | - | 388 | 388 |
| Subtotal | \$ 407 | \$ - | \$ - | \$ 237 | \$ - | \$ 1,038 | \$ 1,682 |
| Less Vehicle Salvage Value | - | - | - | - | - | (77) | (77) |
| Total Fiscal Year 2022-23 | \$ 407 | \$ - | \$ - | \$ 237 | \$ - | \$ 961 | \$ 1,605 |
| Total Fiscal Year 2021-22 | 619 | - | - | 672 | - | 1,082 | 2,373 |
| Increase/(Decrease) | \$ (212) | \$ - | \$ - | \$ (435) | \$ - | \$ (121) | \$ (768) |



GENERAL PLANT

GENERAL PLANT BUDGET DETAIL FY 2021-22

| TASK | Item Description | Quantity | Price | FY 2021-22 |
|--|---|-----------------|--------------|-----------------------|
| Department: INFORMATION SERVICES | | | | |
| 250 8031.250.02 | 2 Servers for LAWRP | 2 | \$ 20,000 | \$ 40,000 |
| 250 8031.250.03 | 22 Cisco Switches | 22 | 7,273 | \$ 160,000 |
| 250 8031.250.09 | Network Load Balancer | 1 | 50,000 | \$ 50,000 |
| 250 8031.250.14 | Board Room and Conference Room Technology Refresh | 1 | 150,000 | \$ 150,000 |
| 250 8041.250.01 | 5 New and 15 Replacement Tablets (IPAD) - old SCADA | 5 | 1,000 | \$ 5,000 |
| 250 8041.250.06 | PC/Laptop/peripherals Replacement | 215 | 930 | \$ 200,000 |
| 250 8041.250.08 | 2 additional full user licenses each FY (4 total for this two year budget cycle) for the Laboratory Information Management System (LIMS) software. | 2 | 6,825 | \$ 13,650 |
| Sub-Total | | | | \$ 618,650 |
| Department: WATER QUALITY & REGULATORY COMPLIANCE | | | | |
| 600 8036.600.16 | Existing Laboratory Equipment Replacement | 1 | 237,450 | 237,450 |
| 600 8036.600.17 | Liquid Chromatograph-Tandem Mass Spectrometer | 1 | 435,000 | 435,000 |
| Sub-Total | | | | \$ 672,450 |
| Department: FLEET SERVICES | | | | |
| 870 8037.870.19 | Backhoe Loader | 1 | \$ 135,000 | \$ 135,000 |
| 870 8037.870.20 | Backhoe Loader | 1 | \$ 135,000 | \$ 135,000 |
| 870 8038.870.21 | Truck Mounted Crane | 1 | \$ 380,000 | \$ 380,000 |
| 870 8037.870.22 | Forklift 11,000 Lb. | 1 | \$ 44,500 | \$ 44,500 |
| 870 8055.870.23 | Medium Duty Pickup Truck w/Utility Body | 1 | \$ 54,000 | \$ 54,000 |
| 870 8055.870.24 | Medium Duty Pickup Truck w/Utility Body | 1 | \$ 54,000 | \$ 54,000 |
| 870 8055.870.25 | Medium Duty Pickup Truck w/Utility Body | 1 | \$ 54,000 | \$ 54,000 |
| 870 8055.870.26 | Medium Duty Pickup Truck w/Utility Body | 1 | \$ 54,000 | \$ 54,000 |
| 870 8055.870.27 | Medium Duty Pickup Truck w/Utility Body | 1 | \$ 54,000 | \$ 54,000 |
| 870 8055.870.28 | Medium Duty Utility Van | 1 | \$ 62,500 | \$ 62,500 |
| 870 8055.870.29 | Medium Duty Pickup Truck | 1 | \$ 44,500 | \$ 44,500 |
| 870 8055.870.30 | Medium Duty Pickup Truck | 1 | \$ 39,000 | \$ 39,000 |
| 870 8055.870.31 | Medium Duty Pickup Truck | 1 | \$ 39,000 | \$ 39,000 |
| Sub-Total | | | | \$ 1,149,500 |
| Total General Plant | | | | <u>\$ 2,440,600</u> |

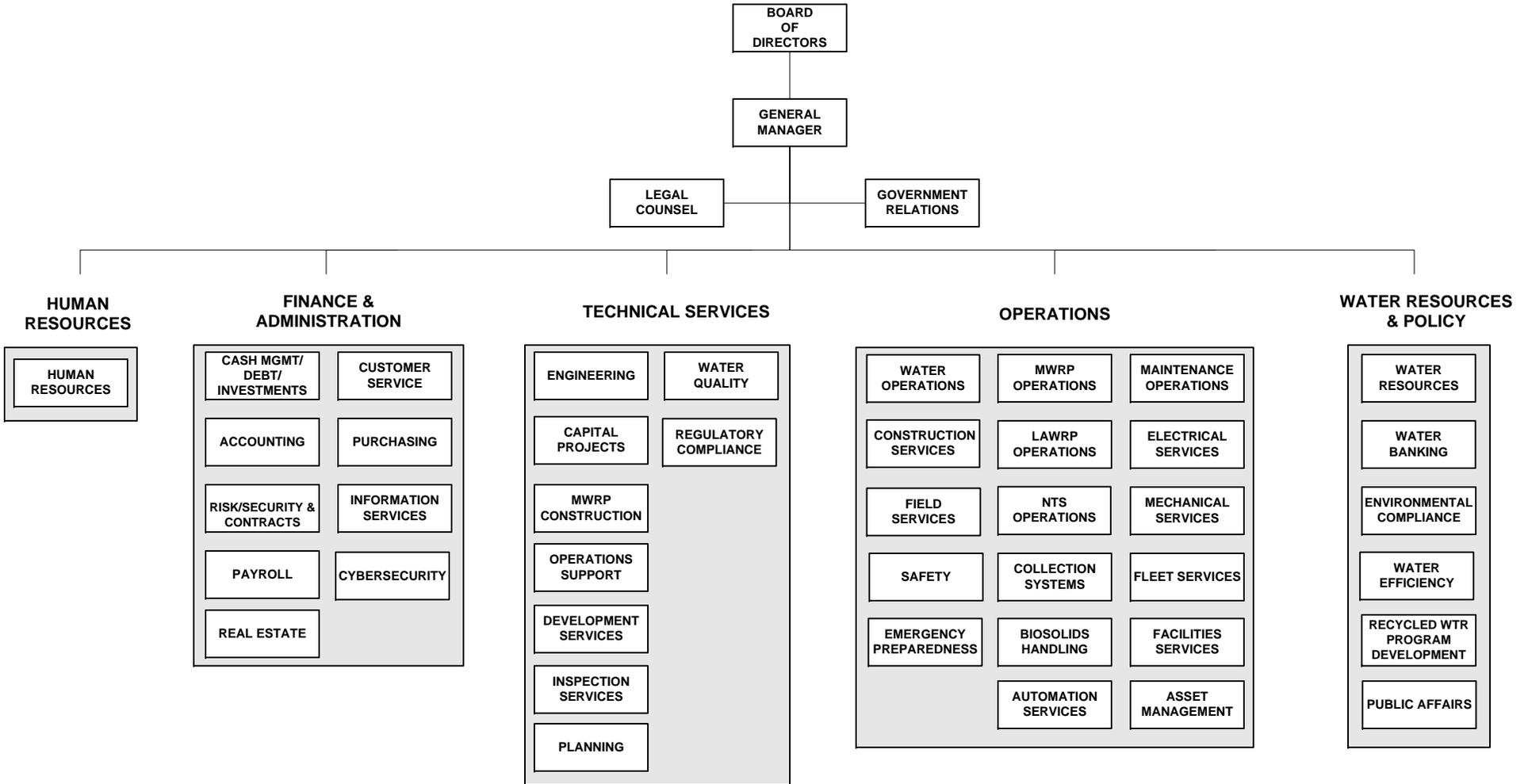


GENERAL PLANT

GENERAL PLANT BUDGET DETAIL FY 2022-23

| TASK | Item Description | Quantity | Price | FY 2022-23 |
|--|--|----------|------------|---------------|
| Department: INFORMATION SERVICES | | | | |
| 250 8031.250.14 | Board Room and Conference Room Technology Refresh | 1 | \$ 150,000 | \$ 150,000 |
| 250 8041.250.01 | 5 New and 15 Replacement Tablets (IPAD) - old SCADA | 15 | \$ 1,000 | \$ 15,000 |
| 250 8041.250.04 | 10 Industrial SCADA Desktop | 10 | \$ 1,200 | \$ 12,000 |
| 250 8041.250.05 | 8 Dedicated SCADA Laptops for Automation Staff | 8 | \$ 2,000 | \$ 16,000 |
| 250 8041.250.06 | PC/Laptop/peripherals Replacement | 1 | \$ 200,000 | \$ 200,000 |
| 250 8041.250.08 | 2 additional full user licenses each FY (4 total for this two year budget cycle) for the Laboratory Information Management System (LIMS) software. | 2 | \$ 6,825 | \$ 13,650 |
| Sub-Total | | | | 406,650 |
| Department: WATER QUALITY & REGULATORY COMPLIANCE | | | | |
| 600 8036.600.16 | Existing Laboratory Equipment Replacement | 1 | 237,450 | 237,450 |
| Sub-Total | | | | 237,450 |
| Department: FLEET SERVICES | | | | |
| 870 8037.870.32 | Backhoe Loader | 1 | \$ 135,000 | \$ 135,000 |
| 870 8037.870.34 | Backhoe Loader | 1 | 135,000 | 135,000 |
| 870 8038.870.35 | Truck Mounted Crane | 1 | 380,000 | 380,000 |
| 870 8055.870.36 | Medium Duty Pickup Truck W/Utility Body | 1 | 62,000 | 62,000 |
| 870 8055.870.37 | Light Duty Pickup Truck | 1 | 37,000 | 37,000 |
| 870 8055.870.38 | Light Duty Pickup Truck | 1 | 37,000 | 37,000 |
| 870 8055.870.39 | Light Duty Pickup Truck | 1 | 37,000 | 37,000 |
| 870 8055.870.40 | Light Duty Pickup Truck | 1 | 37,000 | 37,000 |
| 870 8055.870.41 | Medium Duty Pickup Truck | 1 | 44,500 | 44,500 |
| 870 8055.870.42 | Medium Duty Pickup Truck | 1 | 44,500 | 44,500 |
| 870 8055.870.43 | Medium Duty Pickup Truck | 1 | 44,500 | 44,500 |
| 870 8055.870.44 | Medium Duty Pickup Truck | 1 | 44,500 | 44,500 |
| Sub-Total | | | | 1,038,000 |
| Total General Plant | | | | \$ 1,682,100 |

**Irvine Ranch Water District
Organizational Chart
(By Function)**





POSITIONS BY COST CENTER

FOUR YEAR PERSONNEL COMPARISON

| Department | Budget | | Proposed | |
|--|--------------|--------------|--------------|--------------|
| | FY 2019-20 | FY 2020-21 | FY 2021-22 | FY 2022-23 |
| Administration | | | | |
| Number of Positions* | 13.0 | 13.0 | 13.0 | 13.0 |
| % change from prior year | 0.0 % | 0.0 % | 0.0 % | 0.0 % |
| Safety | | | | |
| Number of Positions* | 3.0 | 3.0 | 3.0 | 3.0 |
| % change from prior year | 0.0 % | 0.0 % | 0.0 % | 0.0 % |
| Finance and Administrative Services | | | | |
| Number of Positions* | 88.0 | 92.0 | 92.0 | 92.0 |
| % change from prior year | 4.1 % | 2.3 % | 0.0 % | 0.0 % |
| Engineering | | | | |
| Number of Positions | 44.0 | 44.0 | 44.0 | 44.0 |
| % change from prior year | 0.0 % | 0.0 % | 0.0 % | 0.0 % |
| Water Operations | | | | |
| Number of Positions | 80.0 | 81.0 | 81.0 | 81.0 |
| % change from prior year | (2.4) % | 1.3 % | 0.0 % | 0.0 % |
| Recycling Operations | | | | |
| Number of Positions | 59.0 | 60.0 | 61.0 | 61.0 |
| % change from prior year | 5.4 % | 1.7 % | 1.7 % | 0.0 % |
| Water Quality and Regulatory Compliance | | | | |
| Number of Positions | 29.0 | 31.0 | 33.0 | 34.0 |
| % change from prior year | 0.0 % | 6.9 % | 6.5 % | 3.0 % |
| Water Policy | | | | |
| Number of Positions | 35.0 | 35.0 | 35.0 | 35.0 |
| % change from prior year | 11.1 % | 0.0 % | 0.0 % | 0.0 % |
| Maintenance | | | | |
| Number of Positions | 53.0 | 53.0 | 53.0 | 53.0 |
| % change from prior year | 1.9 % | 0.0 % | 0.0 % | 0.0 % |
| Total Number of Positions | 404.0 | 412.0 | 415.0 | 416.0 |
| Number of Changed Positions | 10.0 | 8.0 | 3.0 | 1.0 |
| % Change From Prior Year | 2.7 % | 4.2 % | 0.7 % | 0.2 % |

* Prior years restated to reflect organizational changes



SALARIES AND WAGES

SUMMARY OF SALARIES AND WAGES FY 2021-22

| (in thousands) | Total | Administration | Safety | Finance and Administrative Services | Engineering | Water Operations | Recycling Operations | Water Quality and Regulatory Compliance | Water Policy | Maintenance |
|---|-----------|----------------|--------|-------------------------------------|-------------|------------------|----------------------|---|--------------|-------------|
| Current Authorized: | | | | | | | | | | |
| Gross Pay | \$ 33,955 | \$ 1,410 | \$ 239 | \$ 7,231 | \$ 4,413 | \$ 6,135 | \$ 4,562 | \$ 2,654 | \$ 3,217 | \$ 4,094 |
| Annual Increase | 579 | 24 | 4 | 123 | 75 | 105 | 78 | 45 | 55 | 70 |
| Sub-Total Regular Salaries & Wages | \$ 34,534 | \$ 1,434 | \$ 243 | \$ 7,354 | \$ 4,488 | \$ 6,240 | \$ 4,640 | \$ 2,699 | \$ 3,272 | \$ 4,164 |
| New Positions: | | | | | | | | | | |
| Gross Pay | 236 | - | - | - | - | - | 85 | 151 | - | - |
| Total Regular Salaries & Wages | \$ 34,770 | \$ 1,434 | \$ 243 | \$ 7,354 | \$ 4,488 | \$ 6,240 | \$ 4,725 | \$ 2,850 | \$ 3,272 | \$ 4,164 |
| Insurance and Benefits | 15,740 | 649 | | 3,329 | 2,032 | 2,825 | 2,139 | 1,290 | 1,481 | 1,885 |
| Employment Tax & PERS Contributions | 14,744 | 608 | | 3,118 | 1,903 | 2,646 | 2,004 | 1,209 | 1,387 | 1,766 |
| Total Regular Salaries & Wages, health Insurance and employment taxes | \$ 65,254 | \$ 2,691 | | \$ 13,801 | \$ 8,423 | \$ 11,711 | \$ 8,868 | \$ 5,349 | \$ 6,140 | \$ 7,815 |
| Employee Count: | 415 | 13 | 3 | 92 | 44 | 81 | 61 | 33 | 35 | 53 |



SALARIES AND WAGES

SUMMARY OF SALARIES AND WAGES

FY 2022-23

(in thousands)

| | Total | Administration | Safety | Finance and Administrative Services | Engineering | Water Operations | Recycling Operations | Water Quality and Regulatory Compliance | Water Policy | Maintenance |
|---|-----------|----------------|--------|-------------------------------------|-------------|------------------|----------------------|---|--------------|-------------|
| Current Authorized: | | | | | | | | | | |
| Gross Pay | \$ 35,125 | \$ 1,450 | \$ 246 | \$ 7,433 | \$ 4,519 | \$ 6,305 | \$ 4,773 | \$ 2,880 | \$ 3,315 | \$ 4,204 |
| Annual Increase | 1,117 | 46 | 8 | 238 | 145 | 202 | 150 | 88 | 106 | 134 |
| Sub-Total Regular Salaries & Wages | \$ 36,241 | \$ 1,496 | \$ 254 | \$ 7,671 | \$ 4,664 | \$ 6,506 | \$ 4,923 | \$ 2,968 | \$ 3,421 | \$ 4,338 |
| New Positions: | | | | | | | | | | |
| Gross Pay | 86 | - | - | - | - | - | - | 86 | - | - |
| Total Regular Salaries & Wages | \$ 36,327 | \$ 1,496 | \$ 254 | \$ 7,671 | \$ 4,664 | \$ 6,506 | \$ 4,923 | \$ 3,054 | \$ 3,421 | \$ 4,338 |
| Insurance and Benefits | 16,558 | 682 | | 3,496 | 2,126 | 2,965 | 2,244 | 1,392 | 1,559 | 1,977 |
| Employment Tax & PERS Contributions | 15,423 | 635 | | 3,257 | 1,980 | 2,762 | 2,090 | 1,297 | 1,452 | 1,842 |
| Total Regular Salaries & Wages, health Insurance and employment taxes | \$ 68,308 | \$ 2,813 | | \$ 14,424 | \$ 8,770 | \$ 12,233 | \$ 9,257 | \$ 5,743 | \$ 6,432 | \$ 8,157 |
| Employee Count: | 416 | 13 | 3 | 92 | 44 | 81 | 61 | 34 | 35 | 53 |



BENEFITS AND EMPLOYMENT TAX

HEALTH INSURANCE AND EMPLOYER CONTRIBUTIONS FY 2021-22

| | <u>FY 2020-21</u> | <u>FY 2021-22</u> | <u>Change</u> |
|---|-------------------|-------------------|-----------------|
| Insurance and Benefits | | | |
| Health Ins Actives | \$ 6,478 | \$ 7,096 | \$ 618 |
| Paid Time Off * | 5,099 | 5,185 | 86 |
| Dental Premiums | 488 | 511 | 23 |
| Wrkrs Comp Premiums | 763 | 750 | (13) |
| Wrkrs Comp Paid Claims | 772 | 772 | - |
| Life Ins Actives | 174 | 180 | 6 |
| LT Disability Premiums | 155 | 174 | 19 |
| Medical Premiums - Retirees | 177 | 425 | 248 |
| Vision Benefit Premiums | 85 | 98 | 13 |
| RHCAP Payments - OPEB | 575 | 351 | (224) |
| Life Ins Retirees | 13 | 13 | - |
| Other | 186 | 185 | (1) |
| | <u>\$ 14,965</u> | <u>\$ 15,740</u> | <u>\$ 775</u> |
| Employment Tax and PERS | | | |
| PERS Employer Portion | \$ 8,319 | \$ 10,690 | \$ 2,371 |
| PERS In Excess Of ARC | 1,445 | 2,024 | 579 |
| 401A Employer Match Portion | 973 | 1,006 | 33 |
| 401A Employer Direct Portion | 387 | 402 | 15 |
| Medicare Tax | 553 | 572 | 19 |
| St Unemployment Tax | 50 | 50 | - |
| | <u>\$ 11,727</u> | <u>\$ 14,744</u> | <u>\$ 3,017</u> |
| Total Insurance, Benefits, and Taxes | <u>\$ 26,692</u> | <u>\$ 30,484</u> | <u>\$ 3,792</u> |

* Paid time off restated from labor to employee benefits in FY 2020-21



BENEFITS AND EMPLOYMENT TAX

HEALTH INSURANCE AND EMPLOYER CONTRIBUTIONS FY 2022-23

| | FY 2021-22 | FY 2022-23 | Change |
|---|------------------|------------------|-----------------|
| Insurance and Benefits | | | |
| Health Ins Actives | \$ 7,096 | \$ 7,450 | \$ 354 |
| Paid Time Off | 5,185 | 5,559 | 374 |
| Dental Premiums | 511 | 524 | 13 |
| Wrkrs Comp Premiums | 750 | 825 | 75 |
| Wrkrs Comp Paid Claims | 772 | 772 | - |
| Life Ins Actives | 180 | 180 | - |
| LT Disability Premiums | 174 | 174 | - |
| Medical Premiums - Retirees | 425 | 425 | - |
| Vision Benefit Premiums | 98 | 98 | - |
| RHCAP Payments - OPEB | 351 | 351 | - |
| Life Ins Retirees | 13 | 13 | - |
| Other | 185 | 187 | 2 |
| | <u>\$ 15,740</u> | <u>\$ 16,558</u> | <u>\$ 818</u> |
| Employment Tax and PERS | | | |
| PERS Employer Portion | \$ 10,690 | \$ 11,388 | \$ 698 |
| PERS In Excess Of ARC | 2,024 | 1,914 | (110) |
| 401A Employer Match Portion | 1,006 | 1,052 | 46 |
| 401A Employer Direct Portion | 402 | 421 | 19 |
| Medicare Tax | 572 | 598 | 26 |
| St Unemployment Tax | 50 | 50 | - |
| | <u>\$ 14,744</u> | <u>\$ 15,423</u> | <u>\$ 679</u> |
| Total Insurance, Benefits, and Taxes | <u>\$ 30,484</u> | <u>\$ 31,981</u> | <u>\$ 1,497</u> |

**FY 2021/22 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 |
| 240 | Purchasing Coordinator | 19.N | Reclass 1 Position | Senior Purchasing Coordinator | 22.N | \$5,832 |
| 300 | Development Services Specialist | 19.N | Reclass 1 Position | Engineering Technician I | 20.N | \$1,884 |
| Subtotal | | | | | | <u>\$7,716</u> |

| Proposed New Positions | | | | |
|-------------------------------|-----------------------|------------------|---------------------|----------------------------|
| Dept | Job Title | Sal Grade | Salary Costs | Number of Positions |
| 530 | Automation Specialist | 32.N | \$92,772 | 1 |
| 600 | Scientist | 28.N | \$82,572 | 1 |
| 650 | Scientist | 28.N | \$82,572 | 1 |
| Subtotal | | | <u>\$257,916</u> | <u>3</u> |
| Total | | | <u>\$265,632</u> | |



LABOR

PROPOSED LABOR CHANGES FY 2021/22

Proposed Personnel Budget Changes as Reflected in the FY 2021/22 Operating Budget

Title and Salary Grade Changes for Existing Positions/Job Titles

Purchasing (240):

Purchasing Coordinator (Salary Grade 19.N) to Senior Purchasing Coordinator (Salary Grade 22.N)

This position's reclassification is being requested to meet the needs of the department.

Engineering (300):

Development Services Specialist (Salary Grade 19.N) to Engineering Technician I (Salary Grade 20.N)

This position's reclassification is being requested to accurately reflect the specific duties and responsibilities of the position.

New Positions

Automation (530):

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

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

Water Quality (600):

Scientist (Salary Grade 28.N) – 1 position

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

Regulatory Compliance (650):

Scientist (Salary Grade 28.N) – 1 position

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

**FY 2022/23 Budget
Summary of Proposed Budgeted Personnel Changes**

| Proposed New Positions | | | | |
|------------------------|------------------|-----------|-----------------|---------------------|
| Dept | Job Title | Sal Grade | Salary Costs | Number of Positions |
| 600 | Senior Scientist | 32.N | \$92,772 | 1 |
| Subtotal | | | <u>\$92,772</u> | <u>1</u> |
| Total | | | <u>\$92,772</u> | |



LABOR

PROPOSED LABOR CHANGES *FY 2022/23*

Proposed Personnel Budget Changes as Reflected in the FY 2022/23 Operating Budget

New Positions

Water Quality (600):

Senior Scientist (Salary Grade 32.N) – 1 position

This position is required to assist with the increased workload due to PFAS.

Note: This page is intentionally left blank.

RESOLUTION NO. 2021 –

RESOLUTION OF THE BOARD OF DIRECTORS
OF IRVINE RANCH WATER DISTRICT,
APPROVING THE DISTRICT’S OPERATING AND NON-OPERATING BUDGETS
FOR FISCAL YEAR 2021-22 AND FISCAL YEAR 2022-23 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 2021-22 and Fiscal Year 2022-23; and

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

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

WHEREAS, Section 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; and

WHEREAS, IRWD’s Operating Budget for Fiscal Year 2021-22 and Fiscal Year 2022-23 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);

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 2021-22 and Fiscal Year 2022-23 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 2021-22 and Fiscal Year 2022-23 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 2021-22 and Fiscal Year 2022-23 as set forth in the Summary of the Operating and Non-Operating Budgets dated April 26, 2021 and which are by this reference incorporated herein, are hereby approved.

ADOPTED, SIGNED AND APPROVED this 26th day of April 2021.

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

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

APPROVED AS TO FORM:
HANSON BRIDGETT

By: _____
General Counsel

Operating and Non-Operating Budgets for FY 2021-22 and 2022-23

Board Workshop

April 26, 2021



1

Agenda for Budget Workshops

First Workshop (held April 12th):

- FY 2021-22 and 2022-23 Budgets Detailed Review
 - Significant factors affecting the operating budget
 - Operating sources and uses by system
- Non-Operating Net Income
- Next steps

Tonight's Workshop:

- FY 2021-22 and 2022-23 Budgets Review
- Rate History
- Recommendations and Next Steps

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Operating Budgets for FY 2021-22 and FY 2022-23



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Operating Budgets – Key Assumptions

| Uncontrollable Cost Escalators | | | |
|---|----------|----------|----------|
| Assumptions | FY 20-21 | FY 21-22 | FY 22-23 |
| Sales in Acre Feet (AF) | 86,434 | 82,412 | 83,956 |
| Customer growth rate | 3% | 2% | 2% |
| OCWD RA rate/AF | \$511 | \$509 | \$540 |
| MWDOC potable rate /AF (effective January 1) | \$1,110 | \$1,124 | \$1,166 |
| MWDOC non-potable rate /AF (effective January 1) | \$781 | \$790 | \$817 |
| MWDOC Meter Surcharge (per meter) | \$12.25 | \$13.00 | \$13.39 |
| Cost of Living | 3.0% | 1.6% | 3.0% |
| Electricity rate increase | 5.0% | 5.0% | 5.0% |

Irvine Ranch Water District

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Operating Budgets – Key Assumptions

Controllable Cost Escalators

Assumptions

PERS funding matches contribution + cost of Replacement Fund Payback - 25% of estimated Trust Fund return (3 year average)

No Basin Equity Assessment (BEA)

Headcount - 3 positions in FY 2021-22 and 1 positions in FY 2022-23

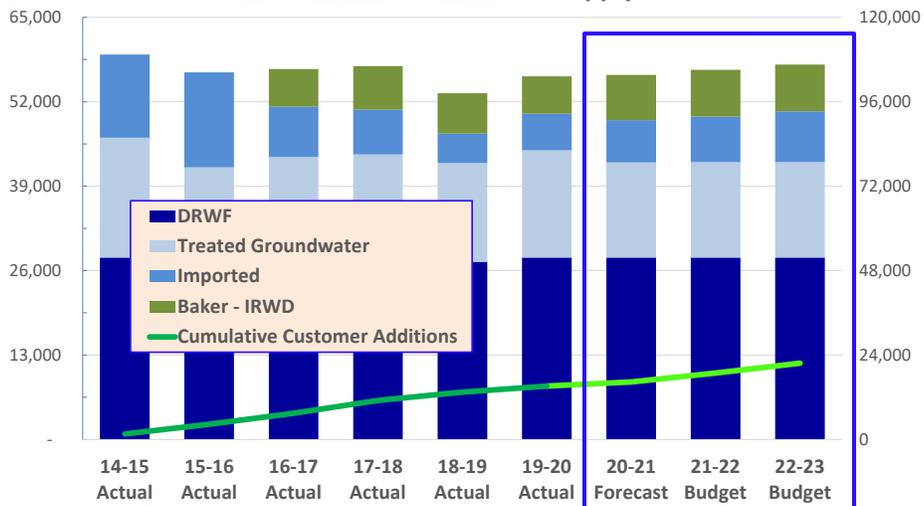
Re-opening of office, return of office staff, in-person travel/meetings - Sept 1, 2021

Resume shut-offs - Jan 1, 2022

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Operating Budgets FY 2021-22 & 2022-23

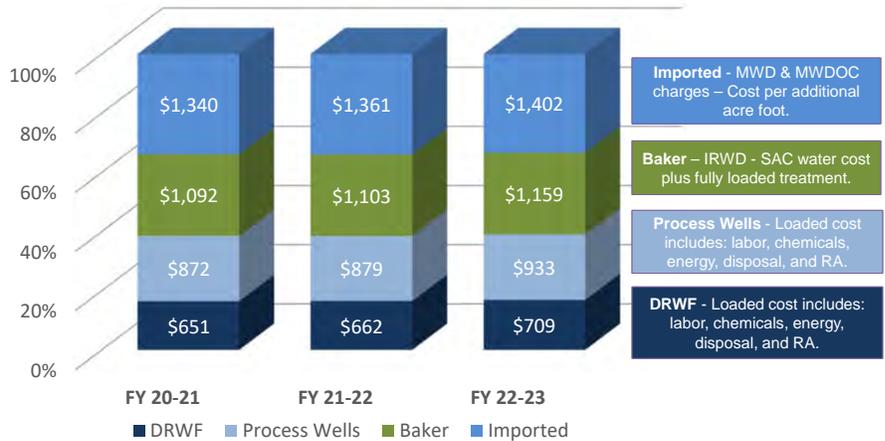
Potable Source of Supply



6

Operating Budgets FY 2021-22 & 2022-23

Source Cost per Acre Foot



7

Operating Budgets FY 2021-22 & 2022-23

Key drivers comparison

| (millions) | Forecast | Budget | | |
|---------------------------------|-----------------|-----------------|-----------------|-----------------|
| | FY 20-21 | FY 20-21 | FY 21-22 | FY 22-23 |
| Salaries and Benefits | \$ 67.6 | \$ 64.5 | \$ 69.1 | \$ 72.2 |
| Purchased Water | 43.7 | 44.7 | 42.3 | 45.5 |
| Repairs and Maintenance | 25.1 | 17.1 | 18.7 | 19.1 |
| Electricity | 19.3 | 18.5 | 19.7 | 20.4 |
| Other Expenses | 28.5 | 33.3 | 35.0 | 35.5 |
| Total Operating Budget * | \$ 184.2 | \$ 178.1 | \$ 184.8 | \$ 192.7 |

* Prior from Reimbursements from Baker Partners

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Non-Operating Budgets for FY 2021-22 and FY 2022-23



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Non-Operating Net Income FY 2021-22 & FY 2022-23

Key Assumptions

| | FY 20-21 | FY 21-22 | FY 22-23 |
|-------------------------------------|----------|----------|----------|
| Assessed Value Growth (tax revenue) | 4.00% | 3.40% | 2.80% |
| Investment Income Rate | 2.40% | 0.55% | 0.70% |
| Real Estate Income Growth | 2.00% | 2.00% | 2.00% |
| Interest Expense (fixed rate) | 3.70% | 3.70% | 3.70% |
| Interest Expense (variable rate) | 2.25% | 0.15% | 0.40% |
| Real Estate Expense Growth | 2.00% | 2.00% | 2.00% |

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Non-Operating Net Income FY 2021-22 & FY 2022-23

| (millions) | Forecast | Budget | | |
|----------------------|-----------------|-----------------|-----------------|-----------------|
| | FY 20-21 | FY 20-21 | FY 21-22 | FY 22-23 |
| Revenues: | | | | |
| Property Taxes | \$ 71.0 | \$ 68.7 | \$ 71.0 | \$ 73.0 |
| Investment Income | 5.0 | 10.0 | 1.9 | 2.1 |
| Connection Fees | 12.0 | 18.0 | 10.0 | 13.0 |
| Real Estate Income | 15.6 | 16.6 | 16.2 | 18.2 |
| Other Income | 8.0 | 8.0 | 7.0 | 7.0 |
| Total Revenue | \$ 111.6 | \$ 121.3 | \$ 106.1 | \$ 113.3 |
| Expenses: | | | | |
| Interest Expense | \$ 21.0 | \$ 24.9 | \$ 21.2 | \$ 21.3 |
| Real Estate Expense | 5.9 | 5.7 | 6.7 | 6.3 |
| Other Expenses | 2.0 | 2.0 | 1.5 | 1.5 |
| Total Expense | \$ 28.9 | \$ 32.6 | \$ 29.4 | \$ 29.1 |
| Net Income | \$ 82.7 | \$ 88.7 | \$ 76.7 | \$ 84.1 |

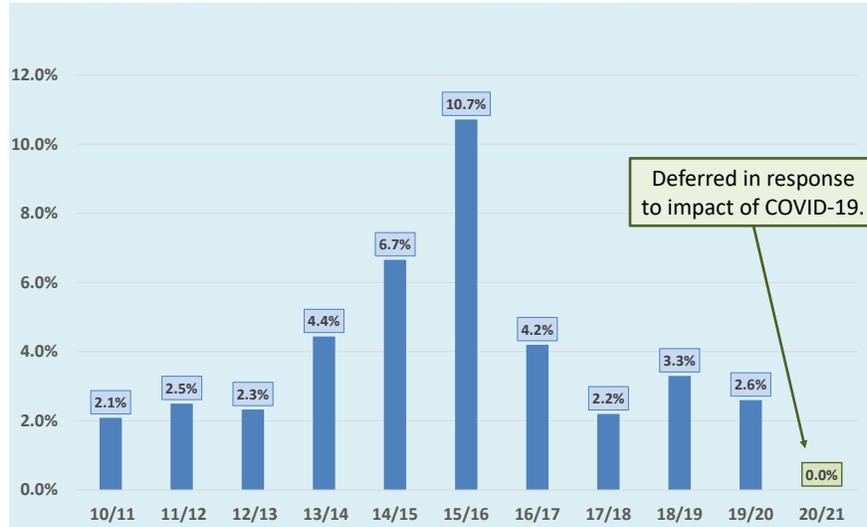
11

Rates History



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IRWD Annual Rate Increase History



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Schedule for Budget Adoption

FY 2021-22 and 2022-23 Operating and Non-Operating Budgets:

| | |
|----------|---|
| March 2 | F&P Committee: Preliminary Budget Review |
| March 24 | Special F&P Committee: Detailed Budget Review |
| April 6 | F&P Committee: Budget Update and Rate Discussion |
| April 12 | First Board Workshop |
| April 26 | Second Board Workshop: Staff recommends adoption of Budgets |

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Recommendations & Next Steps

Recommended Board Actions:

- Adopt the Resolution to Approve the FY 2021-22 and 2022-23 Operating and Non-Operating Budgets

Next Steps – Fall 2021:

1. F & P Committee and the Board to review possible rate changes
2. Send Prop 218 notices
3. Rate changes to be effective after January 1, 2022

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Questions?



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April 26, 2021

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

Submitted by: K. Burton

Approved by: Paul A. Cook 

BOARD WORKSHOP

CAPITAL BUDGET FOR FISCAL YEARS 2021-22 AND 2022-23 AND LONG-TERM CAPITAL PROGRAM

SUMMARY:

At the Board Workshop, staff will provide a presentation on the Capital Budget for Fiscal Year (FY) 2021-22 and FY 2022-23 and IRWD's Long-Term Capital Program. The forecasted capital expenditures for FY 2021-22 and FY 2022-23 are \$116.7 and \$107.5 million, respectively. Staff recommends the Board adopt a resolution approving IRWD's Capital Budget for Fiscal Years 2021-22 and 2022-23.

BACKGROUND:

In 2019, IRWD transitioned from annual to biennial operating and capital budgets. Prior to 2019, staff traditionally presented the upcoming FY capital expenditures and Capital Budget for Board adoption. This year, consistent with the biennial budgeting process that started in 2019, staff will present the two-year Capital Budget. The presentation, provided as Exhibit "A," includes a review of the FY 2019-20 and FY 2020-21 forecasted-to-actual capital expenditures, preview of the forecasted FY 2021-22 and FY 2022-23 capital expenditures, and an update on the Long-Term Capital Program.

For the past two fiscal years, FY 2019-20 and FY 2020-21, forecasted expenditures were originally estimated at \$184.6 million. Actual expenditures are on track to be \$158.5 million (approximately 85% of forecasted expenditures).

Previewing the upcoming two fiscal years, estimated capital expenditures for FY 2021-22 and FY 2022-23 are \$116.7 and \$107.5 million, respectively. For both FY 2021-22 and FY 2022-23 three expenditure groups make up approximately 50% of projected expenditures: 1) Replacement – Facilities projects, 2) Water Banking – including the Kern Fan Groundwater Storage Project, and 3) Operational projects.

This year a change was made to include employee benefits cost allocation as part of the capital budgeting process. The benefits will apply to IRWD labor only and account for a small portion of the Capital Budget that is captured by the 10% contingency built into each project.

FISCAL IMPACTS:

The following table shows the major expenditure groups for FY 2021-22 and FY 2022-23. The Capital Budget for FY 2021-22 and 2022-23, provided as Exhibit "B", provides details on all capital projects with anticipated expenditures in FY 2021-22 and FY 2022-23.

| Expenditure Group Description | FY 2021-22 (\$ Million) | FY 2022-23 (\$ Million) |
|--------------------------------------|------------------------------------|------------------------------------|
| Replacement – Facilities | 40.1 | 30.5 |
| Operational | 21.0 | 19.0 |
| Water Banking | 14.4 | 25.1 |
| OCSD CORF / Solids Lease | 9.3 | 13.5 |
| Non-potable Storage | 8.7 | 6.1 |
| Development | 6.0 | 2.1 |
| Property Management | 5.0 | 0.0 |
| Sewage Treatment | 2.6 | 5.4 |
| General Plant | 2.5 | 1.7 |
| Replacement – Business Software | 2.3 | 0.0 |
| Planning | 2.3 | 2.1 |
| Water Resources | 1.6 | 1.3 |
| OCWD Annexation | 0.6 | 0.6 |
| Baker WTP | 0.2 | 0.1 |
| Solids Handling | 0.1 | 0.0 |
| Total All Projects | \$116.7 | \$107.5 |

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on April 20, 2021.

RECOMMENDATION:

THAT THE BOARD ADOPT A RESOLUTION APPROVING IRWD’S CAPITAL BUDGET FOR FISCAL YEARS 2021-22 AND 2022-23.

LIST OF EXHIBITS:

- Exhibit “A” – Capital Budget Presentation
- Exhibit “B” – Draft Capital Budget for FY 2021-22 and FY 2022-23
- Exhibit “C” – Resolution

Capital Budget and
Long-Term Capital Program

Fiscal Years 2021-22 and 2022-23

Board Workshop
April 26, 2021



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Presentation Outline

- Capital Budget Information
 - Review FY 2019-20 & 2020-21 Capital Budgets
 - Provide Development Update
 - Preview Proposed FY 2021-22 & 2022-23 Capital Budgets
- Long-Term Capital Program Information

Irvine Ranch Water District

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Capital Budget and Long-Term Capital Program

- Capital Budget Process
 - Biennial process to forecast two-year work effort and obtain Board approval of all capital projects in FY 2021-22 & FY 2022-23
- Long-Term Capital Program Overview
 - Identifies all new capital projects through FY 2049-50 and near-term replacement capital projects to assist the Financial Enterprise Model in setting property taxes, connection fees, user rates

3

Two-Year Capital Budget



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Two-Year Capital Budget

- Accomplishes the following objectives:
 - Forecasts estimated 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

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Two-Year Capital Budget Outline

- Review forecast vs. actual expenditures from past two years
- Update on development activity
- Preview FY 2021-22 & 2022-23 capital expenditures

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Summary of Previous Forecast vs. Actual Expenditures

- FY 2019-20 & 2020-21 Capital Expenditures
 - Forecast for past two-year expenditures \$184.6M
 - Actual Expenditures = \$158.5 (≈85%)

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Compare Previous Forecast to Actual Expenditures

| No. | Description | Forecast (\$ Millions) | Actual (\$ Millions) | Delta (\$ Millions) |
|-----------------|-------------------------------|---------------------------|-------------------------|------------------------|
| 1 | Water Banking | 27.1 | 3.0 | (24.1) |
| 2 | Operational | 29.2 | 20.7 | (8.5) |
| 3 | Development | 22.4 | 18.8 | (3.6) |
| 4 | Replacement - Facilities | 48.7 | 45.4 | (3.3) |
| 5 | Water Resources | 3.4 | 0.6 | (2.8) |
| 6 | Replacement-Business Software | 4.2 | 1.5 | (2.7) |
| 7 | OCSD - CORF - Solids Lease | 1.3 | (0.8) | (2.1) |
| 8 | Planning | 4.0 | 1.9 | (2.1) |
| 9 | General Plant | 4.3 | 3.6 | (0.7) |
| 10 | OCWD Annexation | 1.2 | 0.7 | (0.5) |
| 11 | Sewage Treatment | 1.4 | 1.1 | (0.3) |
| 12 | Property Management | 14.3 | 14.3 | 0.0 |
| 14 | Non-potable Storage | 7.8 | 9.2 | 1.4 |
| 13 | Solids Handling | 15.3 | 38.5 | 23.2 |
| Subtotal | | 184.6 | 158.5 | (26.1) |

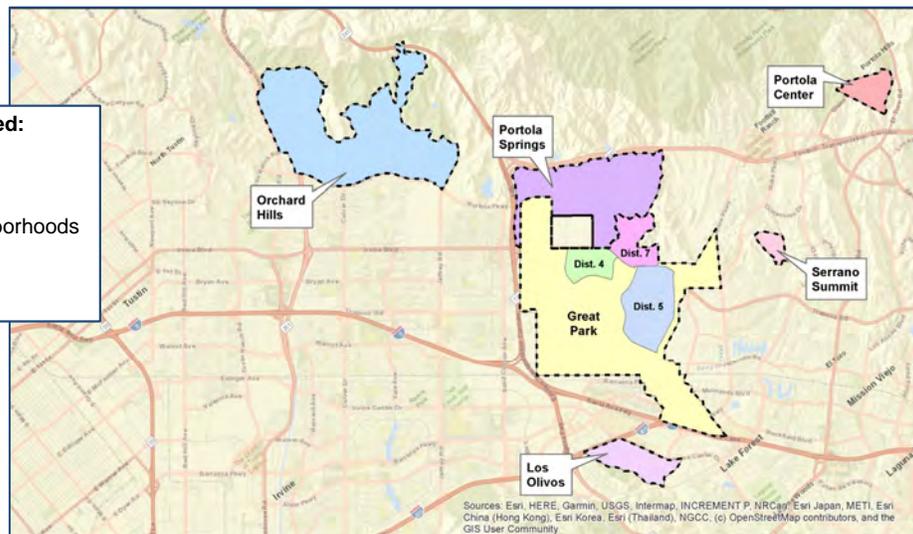
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Update on Development



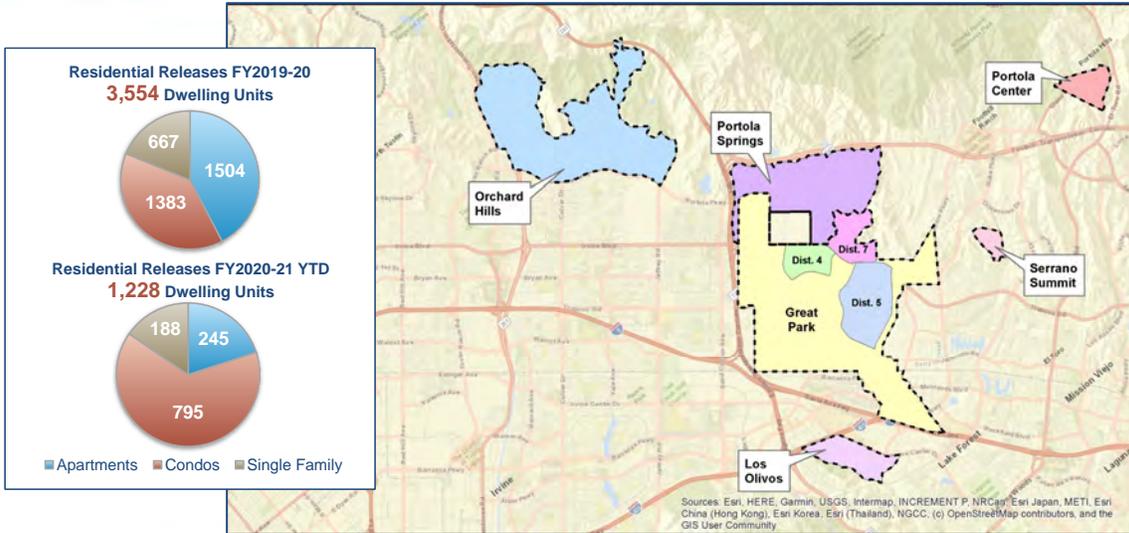
Review Development FY 2019-20 and FY 2020-21

- Active Areas Included:**
- Portola Center
 - Orchard Hills
 - Portola Springs
 - Great Park Neighborhoods (4,5, and 7)
 - Los Olivos
 - Serrano Summit



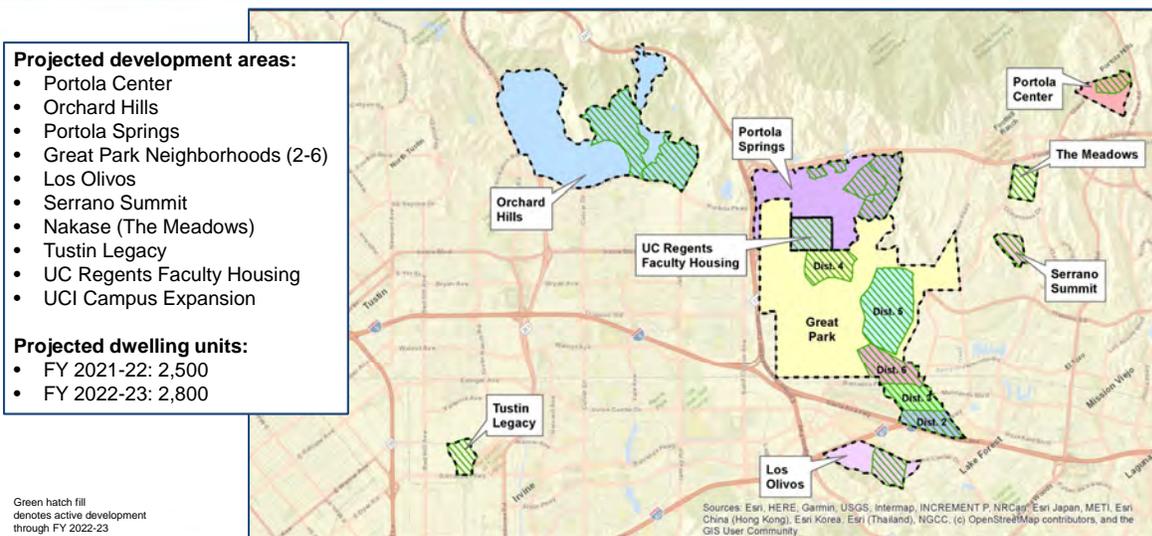
Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

Review Development FY 2019-20 and FY 2020-21



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Projected Development Through FY 2022-23



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Preview Capital Budget for Fiscal Years 2021-22 and 2022-23



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FY 2021-22 & 2022-23 Expenditures by Category

| Description | FY 2021-22 Expenditures (\$ Millions) | FY 2022-23 Expenditures (\$ Millions) |
|-------------------------------|---|---|
| Replacement - Facilities | 40.1 | 30.5 |
| Operational | 21.0 | 19.0 |
| Water Banking | 14.4 | 25.1 |
| OCSD - CORF - Solids Lease | 9.3 | 13.5 |
| Non-potable Storage | 8.7 | 6.1 |
| Development | 6.0 | 2.1 |
| Property Management | 5.0 | 0.0 |
| Sewage Treatment | 2.6 | 5.4 |
| General Plant | 2.5 | 1.7 |
| Replacement-Business Software | 2.3 | 0.0 |
| Planning | 2.3 | 2.1 |
| Water Resources | 1.6 | 1.3 |
| OCWD Annexation | 0.6 | 0.6 |
| Baker WTP | 0.2 | 0.1 |
| Solids Handling | 0.1 | 0.0 |
| Total | 116.7 | 107.5 |

Irvine Ranch Water District

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Top Expenditure Projects

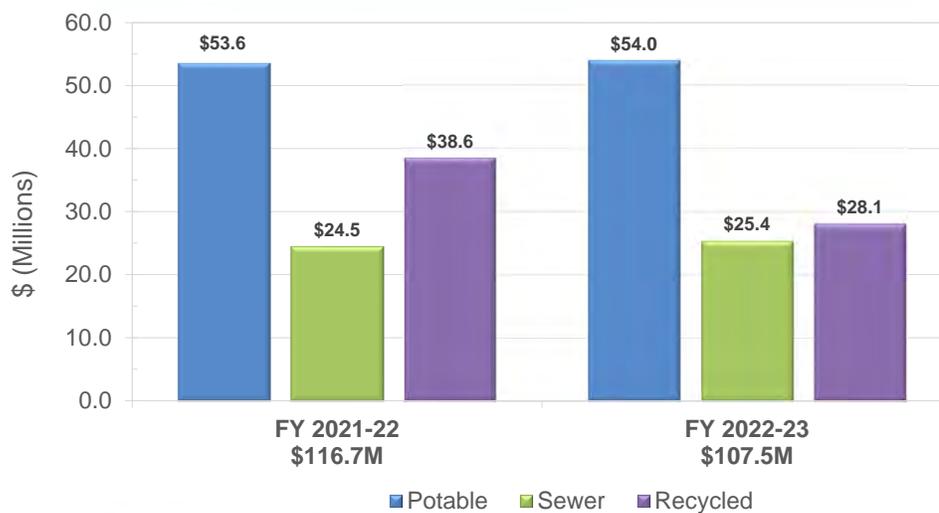
| Fiscal Year | Description | Expenditure Category | Forecasted Expenditures (\$ Millions) |
|---------------------|--|----------------------------|---------------------------------------|
| Fiscal Year 2021-22 | KERN FAN GROUNDWATER STORAGE | Water Banking | 14.0 |
| | WOODBRIDGE RW PIPELINE REPLACEMENT (ACP) | Replacement - Facilities | 9.0 |
| | OCSD CORF LONG TERM CAPITAL PROGRAM 2018 TO 2050 | OCSD - CORF - Solids Lease | 8.8 |
| | ZONE A TO RATTLESNAKE RESERVOIR PUMP STATION | Replacement - Facilities | 7.2 |
| | GENERAL SYSTEM REPLACEMENTS AND MODIFICATIONS DW 21/22 | Replacement - Facilities | 6.3 |
| | SYPHON RESERVOIR IMPROVEMENTS | Non-potable Storage | 5.9 |
| Fiscal Year 2022-23 | KERN FAN GROUNDWATER STORAGE | Water Banking | 25.1 |
| | OCSD CORF LONG TERM CAPITAL PROGRAM 2018 TO 2050 | OCSD - CORF - Solids Lease | 10.2 |
| | MWRP TERTIARY FILTER REHABILITATION | Replacement - Facilities | 7.3 |
| | ZONE A TO RATTLESNAKE RESERVOIR PUMP STATION | Replacement - Facilities | 6.5 |
| | GENERAL SYSTEM REPLACEMENTS AND MODIFICATIONS DW 22/23 | Replacement - Facilities | 6.3 |
| | SYPHON RESERVOIR IMPROVEMENTS | Non-potable Storage | 5.9 |
| | LAWRP TREATMENT PROCESS MODERNIZATION | Sewage Treatment | 5.2 |

Irvine Ranch Water District

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Expenditures by System

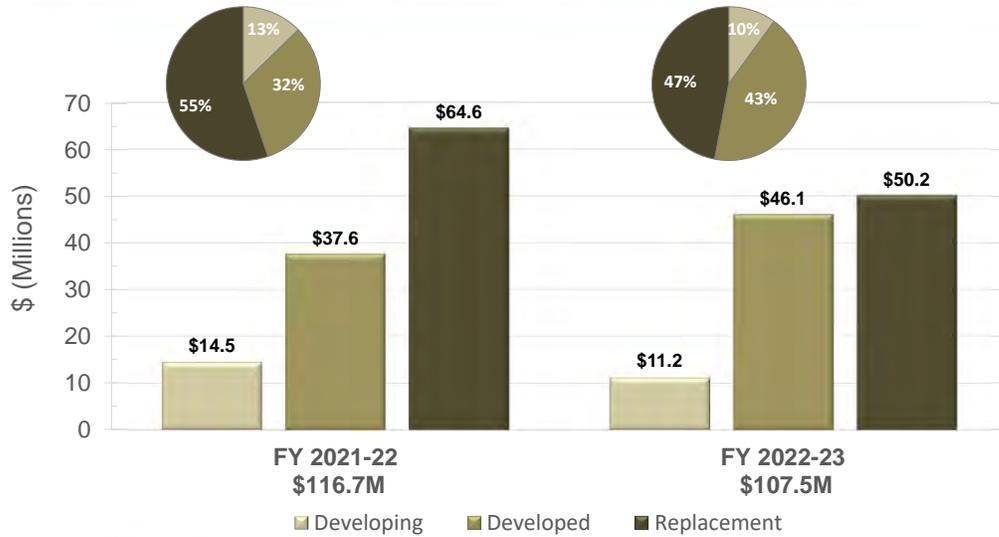


Irvine Ranch Water District

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Funding Sources



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Long-Term Capital Program



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Long-Term Capital Program Description

- Identifies all planned capital projects through 2050
- Includes four years of replacement projects
- Excludes Replacement Planning Model 100-year funding requirements
- Provides data to the Financial Enterprise Model for setting Connection Fees, Property Taxes, and User Rates
- Estimates capital cash flow

Long-Term Capital Program Summary

| Component | Budget and Expenditures (\$ Millions) |
|--|--|
| Remaining LTCP on July 1, 2019 | \$760 M |
| Expenditures for FY 2019-20 and 2020-21 ¹ | (\$160 M) |
| Mid-Cycle Board Approvals (Santiago Dam, Syphon Reservoir, STMP Projects) <ul style="list-style-type: none"> • Replacement = 65% • Developed = 27% • Developing = 8% | \$530 M |
| Proposed LTCP Increases | \$90 M |
| Total Proposed Remaining LTCP² | \$1,220 M |

¹ Forecast through June 30, 2021 (Rounded up from \$158.8M)

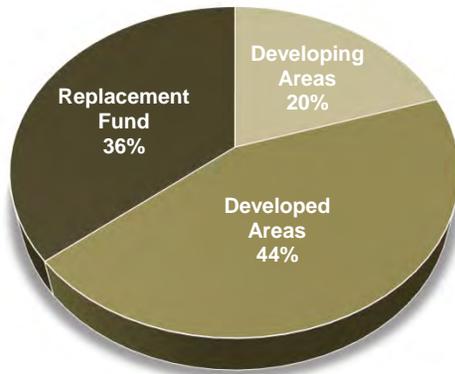
² The Financial Replacement Model includes 3 years of replacement expenditures from the LTCP and major R&R projects.

All costs and expenditures account for applicable offsets

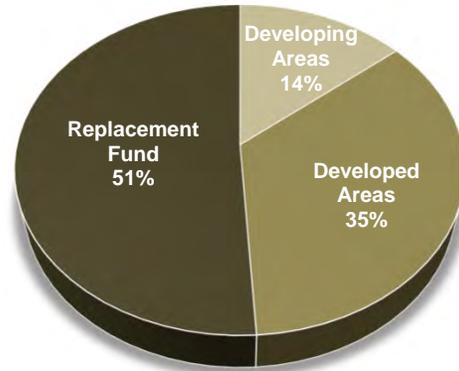
Long-Term Capital Program Overview

FY 2021-23 Proposed Long Term Capital Program = \$1.2 Billion

FY 2019-21
LTCP Funding Sources



FY 2021-23
LTCP Funding Sources

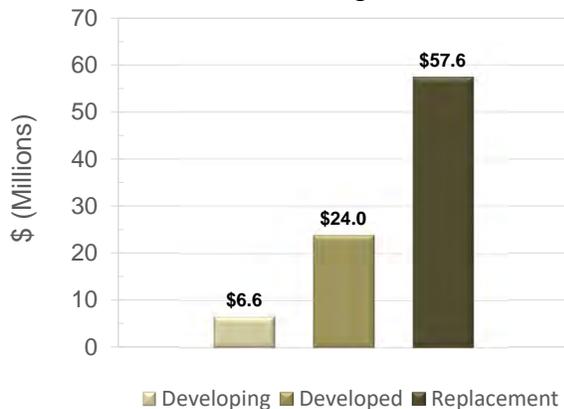


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Long-Term Capital Program Increases

Total By Funding Sources = \$88.2 M

LTCP Funding Sources



| Description | LTCP Increases (\$ Millions) |
|-------------------------------------|------------------------------|
| KERN FAN GROUNDWATER STORAGE | 21.6 |
| ETM REACH A REHABILITATION | 15.0 |
| WOODBIDGE ACP REPLACEMENT | 10.4 |
| SEWER SIPHON REHABILITATION PHASE 2 | 9.7 |
| Subtotal | 56.7 |
| OTHER PROJECTS | 31.5 |
| Total | 88.2 |

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Recommendation

THAT THE BOARD ADOPT THE FOLLOWING RESOLUTION BY TITLE:

RESOLUTION NO. 2021 –

RESOLUTION OF THE BOARD OF DIRECTORS OF
IRVINE RANCH WATER DISTRICT, ORANGE COUNTY
CALIFORNIA, APPROVING THE DISTRICT'S CAPITAL
BUDGET FOR FISCAL YEAR 2021-22 and 2022-23

CAPITAL BUDGET

FISCAL YEAR 2021-22
and
FISCAL YEAR 2022-23



Board Meeting

April 26, 2021

DRAFT

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

CAPITAL BUDGET

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| 1. | Project Expenditures by Project Number with Improvement District Allocations |
| 2. | Flagged Projects |
| 3. | Summary of Projected Expenditures by Category |
| 4. | Details of Projected Expenditures by Category |
| 5. | Water Improvement District Map |
| 6. | Sewer Improvement District Map |

Improvement Districts

| System | Project Number | Project Title | Start | End | FY 2021-22 Direct | FY 2022-23 Direct | Total Direct | Improvement Districts | | | | | | | | | | | | | | | | | | | | | |
|------------------|----------------|---|-----------|------------|-------------------|-------------------|---------------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|
| | | | | | | | | 1100 | 1110 | 1120 | 1130 | 1250 | 1530 | 1540 | 1850 | 1880 | 2100 | 2120 | 2130 | 2220 | 2250 | 2400 | 2530 | 2560 | 2850 | 2880 | | | |
| Sewer Capital | 11537 | EMERGENCY GENERATOR FUEL STORAGE - SS | 4/1/2021 | 6/30/2023 | \$201,293 | \$278,263 | \$522,000 | | | | | | | | | | | | | 5.4 | 3.7 | 35.4 | 45.0 | | 7.9 | 0.4 | 1.8 | 0.4 | |
| Sewer Capital | 11842 | ETM REACH A REHABILITATION | 6/1/2023 | 7/31/2028 | \$0 | \$3,571 | \$15,035,800 | | | | | | | | | | | | | | | | | | | | | | |
| Potable Capital | 11602 | GENERAL SECURITY SYSTEM MODIFICATIONS - D | 6/1/2020 | 6/30/2023 | \$40,541 | \$40,541 | \$125,000 | 35.1 | 4.8 | 3.4 | 46.4 | 7.8 | 0.4 | 1.6 | 0.5 | | | | | | | | | | | | | | |
| Sewer Capital | 11192 | GENERAL SECURITY SYSTEM MODIFICATIONS - SS | 6/1/2020 | 6/30/2023 | \$40,541 | \$40,541 | \$125,000 | | | | | | | | | | | | | | 3.4 | 3.4 | 33.1 | 48.6 | | 9.6 | 0.3 | 1.3 | 0.3 |
| Potable Capital | 11772 | GENERAL SYSTEM REPLACEMENTS AND MODIFICA | 7/1/2021 | 6/30/2022 | \$6,283,000 | \$0 | \$6,283,000 | 100.0 | | | | | | | | | | | | | | | | | | | | | |
| Potable Capital | 11773 | GENERAL SYSTEM REPLACEMENTS AND MODIFICA | 7/1/2022 | 6/30/2023 | \$0 | \$6,283,000 | \$6,283,000 | 100.0 | | | | | | | | | | | | | | | | | | | | | |
| Recycled Capital | 11775 | GENERAL SYSTEM REPLACEMENTS AND MODIFICA | 7/1/2021 | 6/30/2022 | \$2,103,000 | \$0 | \$2,103,000 | | | | | | | | | | | | | | | | | | | | | | |
| Recycled Capital | 11776 | GENERAL SYSTEM REPLACEMENTS AND MODIFICA | 7/1/2022 | 6/30/2023 | \$0 | \$2,103,000 | \$2,103,000 | | | | | | | | | | | | | | | | | | | | | | |
| Sewer Capital | 11778 | GENERAL SYSTEM REPLACEMENTS AND MODIFICA | 7/1/2021 | 6/30/2022 | \$2,035,000 | \$0 | \$2,035,000 | | | | | | | | | | | | | | | | | | | | | | |
| Sewer Capital | 11779 | GENERAL SYSTEM REPLACEMENTS AND MODIFICA | 7/1/2022 | 6/30/2023 | \$0 | \$1,785,000 | \$1,785,000 | | | | | | | | | | | | | | | | | | | | | | |
| Potable Capital | 11926 | GP_Dep 250_FY 21_22 | 7/1/2021 | 6/30/2022 | \$618,650 | \$0 | \$618,650 | 36.2 | 2.8 | 0.3 | 0.3 | 4.0 | 0.9 | | 0.1 | | 41.2 | 0.9 | 0.5 | 3.6 | 7.1 | 0.5 | 1.4 | | | | | 0.2 | |
| Potable Capital | 11929 | GP_Dep 250_FY 22_23 | 7/1/2022 | 6/30/2023 | \$0 | \$406,650 | \$406,650 | 47.2 | 0.1 | | | 0.2 | | | | | 51.9 | | | 0.2 | 0.3 | | 0.1 | | | | | | |
| Potable Capital | 11927 | GP_Dep 600_FY 21_22 | 7/1/2021 | 6/30/2022 | \$672,450 | \$0 | \$672,450 | 36.2 | 2.8 | 0.3 | 0.3 | 4.0 | 0.9 | | 0.1 | | 41.2 | 0.9 | 0.5 | 3.6 | 7.1 | 0.5 | 1.4 | | | | | 0.2 | |
| Potable Capital | 11930 | GP_Dep 600_FY 22_23 | 7/1/2022 | 6/30/2023 | \$0 | \$237,450 | \$237,450 | 47.2 | 0.1 | | | 0.2 | | | | | 51.9 | | | 0.2 | 0.3 | | 0.1 | | | | | | |
| Potable Capital | 11928 | GP_Dep 870_FY 21_22 | 7/1/2021 | 6/30/2022 | \$1,149,500 | \$0 | \$1,149,500 | 36.2 | 2.8 | 0.3 | 0.3 | 4.0 | 0.9 | | 0.1 | | 41.2 | 0.9 | 0.5 | 3.6 | 7.1 | 0.5 | 1.4 | | | | | 0.2 | |
| Potable Capital | 11931 | GP_Dep 870_FY 22_23 | 7/1/2022 | 6/30/2023 | \$0 | \$1,038,000 | \$1,038,000 | 47.2 | 0.1 | | | 0.2 | | | | | 51.9 | | | 0.2 | 0.3 | | 0.1 | | | | | | |
| Sewer Capital | 11122 | HATS DIVERSION STRUCTURE REHABILITATION | 4/1/2020 | 3/31/2022 | \$445,580 | \$0 | \$707,000 | | | | | | | | | | | | | | | | | | | | | | |
| Potable Capital | 10854 | KERN FAN GROUNDWATER STORAGE | 7/1/2021 | 6/30/2028 | \$14,044,500 | \$25,052,600 | \$115,410,500 | 35.1 | 4.8 | 3.4 | 46.4 | 7.8 | 0.4 | 1.6 | 0.5 | | | | | | | | | | | | | | |
| Sewer Capital | 11749 | LAKE FOREST NAKASE 12 INCH SANITARY SEWER | 7/1/2021 | 12/31/2023 | \$69,333 | \$171,017 | \$377,000 | | | | | | | | | | | | | | | | | | | | | | |
| Recycled Capital | 11582 | LAKE FOREST NAKASE 24 ZB RW | 1/1/2021 | 7/31/2023 | \$680,053 | \$544,209 | \$1,365,000 | | | | | | | | | | | | | | | | | | | | | | |
| Potable Capital | 10096 | LAKE FOREST NAKASE DW IMPROVEMENTS | 1/1/2021 | 7/31/2023 | \$105,475 | \$251,562 | \$437,000 | | | | | | | | | | | | | | | | | | | | | | |
| Potable Capital | 11218 | LAKE FOREST WELL NO. 2 TREATMENT & BYPASS S | 6/1/2023 | 12/31/2026 | \$0 | \$4,558 | \$676,000 | 35.1 | 4.8 | 3.4 | 46.4 | 7.8 | 0.4 | 1.6 | 0.5 | | | | | | | | | | | | | | |
| Sewer Capital | 11123 | LAKE FOREST WOODS SEWER ACCESS IMPROVEM | 7/1/2019 | 6/30/2024 | \$49,691 | \$146,691 | \$353,000 | | | | | | | | | | | | | | | | | | | | | | |
| Recycled Capital | 11168 | LAKE FOREST ZONE C RECYCLED WATER PUMP ST | 7/1/2019 | 8/31/2022 | \$2,819,433 | \$147,320 | \$3,801,600 | | | | | | | | | | | | | | | | | | | | | | |
| Sewer Capital | 11878 | LAWRP DIVERSION TO MWRP DURING CONSTRUC | 6/1/2022 | 8/31/2026 | \$2,857 | \$140,577 | \$11,671,000 | | | | | | | | | | | | | | | | | | | | | | |
| Sewer Capital | 11081 | LAWRP SYSTEM REPLACEMENTS 21/22 | 7/1/2021 | 6/30/2022 | \$138,000 | \$0 | \$138,000 | | | | | | | | | | | | | | | | | | | | | | |
| Sewer Capital | 11082 | LAWRP SYSTEM REPLACEMENTS 22/23 | 7/1/2022 | 6/30/2023 | \$0 | \$138,000 | \$138,000 | | | | | | | | | | | | | | | | | | | | | | |
| Sewer Capital | 01477 | LAWRP TREATMENT PROCESS MODERNIZATION | 1/1/2021 | 6/30/2030 | \$2,632,500 | \$5,249,000 | \$202,434,250 | | | | | | | | | | | | | | | | | | | | | | |
| Potable Capital | 11888 | MAXIMO SCHEDULER REPLACEMENT-DW | 10/1/2021 | 6/30/2022 | \$75,000 | \$0 | \$75,000 | 100.0 | | | | | | | | | | | | | | | | | | | | | |
| Sewer Capital | 11889 | MAXIMO SCHEDULER REPLACEMENT-SS | 10/1/2021 | 6/30/2022 | \$150,000 | \$0 | \$150,000 | | | | | | | | | | | | | | | | | | | | | | |
| Potable Capital | 11593 | MODJESKA RD BRIDGE 172 AT MARKUSON RD DW | 2/16/2017 | 7/31/2024 | \$16,470 | \$25,963 | \$564,900 | 100.0 | | | | | | | | | | | | | | | | | | | | | |
| Potable Capital | 11567 | MORSE/GILLETTE DW REPLACEMENT | 2/1/2020 | 5/31/2022 | \$463,392 | \$0 | \$674,000 | 100.0 | | | | | | | | | | | | | | | | | | | | | |

Improvement Districts

| System | Project Number | Project Title | Start | End | FY 2021-22 Direct | FY 2022-23 Direct | Total Direct | Improvement Districts | | | | | | | | | | | | | | | | | | | | | | |
|------------------|----------------|---|-----------|------------|-------------------|-------------------|---------------|-----------------------|------|------|------|------|-------|------|------|------|------|------|------|-------|-------|------|------|------|------|------|-----|-------|-----|-----|
| | | | | | | | | 1100 | 1110 | 1120 | 1130 | 1250 | 1530 | 1540 | 1850 | 1880 | 2100 | 2120 | 2130 | 2220 | 2250 | 2400 | 2530 | 2560 | 2850 | 2880 | | | | |
| Sewer Capital | 04286 | MWRP BIOSOLIDS AND ENERGY RECOVERY FACILI | 4/1/2013 | 7/31/2021 | \$65,175 | \$0 | \$265,542,100 | | | | | | | | | | | | | 45.5 | 1.5 | 1.5 | 18.9 | 27.7 | | 4.1 | 0.1 | 0.6 | 0.1 | |
| Sewer Capital | 11569 | MWRP CAS ELECTRICAL CONDUITS REPLACEMENT | 6/1/2023 | 6/30/2025 | \$0 | \$12,929 | \$654,000 | | | | | | | | | | | | | 100.0 | | | | | | | | | | |
| Sewer Capital | 11833 | MWRP EXPANSION PHASE 3 (CAS) IMPROVEMENT | 6/1/2023 | 12/31/2029 | \$0 | \$769 | \$17,867,000 | | | | | | | | | | | | | | 5.4 | 3.7 | 35.4 | 45.0 | | 7.9 | 0.4 | 1.8 | 0.4 | |
| Recycled Capital | 01659 | MWRP EXPANSION PHASE 3 (MBR)-RW | 6/1/2023 | 12/31/2029 | \$0 | \$13,908 | \$21,258,000 | | | | | | | | | | | | | | 8.8 | 4.2 | 15.3 | 49.2 | 7.9 | 13.1 | | 1.5 | | |
| Sewer Capital | 01797 | MWRP EXPANSION PHASE 3 (MBR)-SS | 6/1/2023 | 12/31/2029 | \$0 | \$27,415 | \$43,680,000 | | | | | | | | | | | | | | 5.4 | 3.7 | 35.4 | 45.0 | | 7.9 | 0.4 | 1.8 | 0.4 | |
| Sewer Capital | 11899 | MWRP PAVING | 2/16/2017 | 7/31/2022 | \$70,623 | \$4,496 | \$243,000 | | | | | | | | | | | | | 100.0 | | | | | | | | | | |
| Sewer Capital | 11599 | MWRP PRIMARY CLARIFIERS 1-5 COVERS REPLACE | 5/1/2020 | 12/31/2021 | \$416,243 | \$0 | \$1,419,000 | | | | | | | | | | | | | 100.0 | | | | | | | | | | |
| Sewer Capital | 11879 | MWRP SLUDGE RECEIVING STATION FACILITY | 6/1/2022 | 8/31/2025 | \$1,429 | \$8,571 | \$1,581,000 | | | | | | | | | | | | | | 5.4 | 3.7 | 35.4 | 45.0 | | 7.9 | 0.4 | 1.8 | 0.4 | |
| Recycled Capital | 07892 | MWRP TERTIARY FILTER REHABILITATION | 8/1/2018 | 12/31/2023 | \$717,508 | \$7,344,445 | \$9,875,600 | | | | | | | | | | | | | 100.0 | | | | | | | | | | |
| Sewer Capital | 11832 | MWRP TRIBUTARY GRAVITY DIVERSION TO LAWR | 6/1/2023 | 12/31/2027 | \$0 | \$11,026 | \$2,942,000 | | | | | | | | | | | | | | 5.4 | 3.7 | 35.4 | 45.0 | | 7.9 | 0.4 | 1.8 | 0.4 | |
| Recycled Capital | 11791 | NON-POTABLE WATER STUDIES 21/22-22/23 | 7/1/2021 | 6/30/2023 | \$50,000 | \$50,000 | \$100,000 | | | | | | | | | | | | | | 8.8 | 4.2 | 15.3 | 49.2 | 7.9 | 13.1 | | 1.5 | | |
| Potable Capital | 07895 | NTS MASTER PLAN UPDATE | 1/1/2021 | 7/30/2022 | \$257,591 | \$20,773 | \$400,000 | 100.0 | | | | | | | | | | | | | | | | | | | | | | |
| Potable Capital | 05406 | NTS-EL MODENA MODS | 6/1/2023 | 7/30/2025 | \$0 | \$6,480 | \$347,000 | 100.0 | | | | | | | | | | | | | | | | | | | | | | |
| Potable Capital | 11142 | NTS-WOODBRIDGE NTS RELOCATION | 6/1/2021 | 6/30/2023 | \$57,600 | \$57,600 | \$120,000 | 100.0 | | | | | | | | | | | | | | | | | | | | | | |
| Sewer Capital | 10502 | OCS D CORF LONG TERM CAPITAL PROGRAM 2018 | 7/1/2017 | 6/30/2050 | \$8,781,125 | \$10,230,125 | \$210,379,000 | | | | | | | | | | | | | | 72.7 | 0.9 | 0.9 | 9.0 | 13.3 | | 2.6 | 0.1 | 0.4 | 0.1 |
| Sewer Capital | 10500 | OCS D EQUITY LONG TERM CAPITAL PROGRAM 20 | 7/1/2017 | 6/30/2050 | \$0 | \$3,231,625 | \$16,742,000 | | | | | | | | | | | | | | 5.4 | 3.7 | 35.4 | 45.0 | | 7.9 | 0.4 | 1.8 | 0.4 | |
| Sewer Capital | 10594 | OCS D SOLIDS LEASE LONG TERM CAPITAL PROGRA | 7/1/2017 | 12/31/2021 | \$500,000 | \$0 | \$12,082,000 | | | | | | | | | | | | | | 5.4 | 3.7 | 35.4 | 45.0 | | 7.9 | 0.4 | 1.8 | 0.4 | |
| Potable Capital | 10503 | OCWD ANNEXATION LONG TERM CAPITAL PROGR | 7/1/2017 | 1/30/2050 | \$625,400 | \$634,800 | \$22,861,400 | | 35.1 | 4.8 | 3.4 | 46.4 | 7.8 | 0.4 | 1.6 | 0.5 | | | | | | | | | | | | | | |
| Potable Capital | 06160 | OPERATIONS CENTER FACILITY REFRESH-DW | 7/1/2021 | 6/30/2024 | \$42,500 | \$186,591 | \$370,000 | 100.0 | | | | | | | | | | | | | | | | | | | | | | |
| Sewer Capital | 06161 | OPERATIONS CENTER FACILITY REFRESH-SS | 6/30/2021 | 6/30/2024 | \$79,864 | \$368,045 | \$740,000 | | | | | | | | | | | | | | 100.0 | | | | | | | | | |
| Potable Capital | 11808 | ORACLE BI UPGRADE 2021 - DW | 2/1/2021 | 9/30/2021 | \$56,250 | \$0 | \$150,000 | 100.0 | | | | | | | | | | | | | | | | | | | | | | |
| Sewer Capital | 11810 | ORACLE BI UPGRADE 2021 - SS | 2/1/2021 | 9/30/2021 | \$56,250 | \$0 | \$150,000 | | | | | | | | | | | | | | 100.0 | | | | | | | | | |
| Recycled Capital | 11500 | PA 1 JEFFREY RD EXT 6RW & 12RW | 1/1/2020 | 2/28/2023 | \$60,773 | \$68,347 | \$163,000 | | | | | | | | | | | | | | | | | | | | | 100.0 | | |
| Potable Capital | 11395 | PA 12 INNOVATION PARK 12DW | 7/1/2019 | 8/31/2022 | \$230,346 | \$51,703 | \$410,000 | | | | | | 100.0 | | | | | | | | | | | | | | | | | |
| Recycled Capital | 11584 | PA 12 REGIONAL ZONE A RW IMPROVEMENTS | 7/1/2020 | 12/31/2022 | \$1,238,939 | \$72,727 | \$1,615,000 | | | | | | | | | | | | | | 8.8 | 4.2 | 15.3 | 49.2 | 7.9 | 13.1 | | 1.5 | | |
| Recycled Capital | 01722 | PA1 NHB4 ORCHARD HILLS RW | 7/1/2020 | 7/31/2025 | \$27,915 | \$12,515 | \$566,500 | | | | | | | | | | | | | | | | | | | | | | | |
| Sewer Capital | 07173 | PA1 PORTOLA PKWY SEWER REPLACEMENT | 6/1/2023 | 7/31/2025 | \$0 | \$15,538 | \$759,700 | | | | | | | | | | | | | | | | | | | | | | | |
| Recycled Capital | 03734 | PA12 INNOVATION PARK RW | 7/1/2020 | 7/31/2023 | \$125,139 | \$216,233 | \$447,700 | | | | | | | | | | | | | | | | | | | | | | | |
| Sewer Capital | 05788 | PA51 ALTON PKWY SS RELOCATION 12 AND 18 | 8/1/2014 | 7/31/2021 | \$20,771 | \$0 | \$1,232,300 | | | | | | | | | | | | | | 100.0 | | | | | | | | | |
| Potable Capital | 05816 | PA51 ALTON-TECHNOLOGY TO MUIRLANDS 12 D | 9/1/2014 | 7/31/2021 | \$2,948 | \$0 | \$177,100 | | | 20.9 | | | 79.1 | | | | | | | | | | | | | | | | | |
| Sewer Capital | 05817 | PA51 ALTON-TECHNOLOGY TO MUIRLANDS SS REL | 9/1/2014 | 7/31/2021 | \$27,204 | \$0 | \$1,326,300 | | | | | | | | | | | | | | 100.0 | | | | | | | | | |
| Potable Capital | 05756 | PA51 B ST FROM SOCIABLE TO IRVINE BLV 12 ZN 4 | 8/1/2014 | 7/31/2021 | \$4,020 | \$0 | \$243,100 | | | | 98.2 | | | 1.8 | | | | | | | | | | | | | | | | |

Improvement Districts

| System | Project Number | Project Title | Start | End | FY 2021-22 Direct | FY 2022-23 Direct | Total Direct | Improvement Districts | | | | | | | | | | | | | | | | | | | | | |
|------------------|----------------|--|-----------|------------|-------------------|-------------------|---------------|-----------------------|-------|------|------|------|------|-------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|--|
| | | | | | | | | 1100 | 1110 | 1120 | 1130 | 1250 | 1530 | 1540 | 1850 | 1880 | 2100 | 2120 | 2130 | 2220 | 2250 | 2400 | 2530 | 2560 | 2850 | 2880 | | | |
| Sewer Capital | 11195 | SAFETY- DISTRICT-WIDE FALL PROTECTION ASSESS | 6/1/2023 | 5/30/2026 | \$0 | \$3,948 | \$142,000 | | | | | | | | | | | | | 5.4 | 3.7 | 35.4 | 45.0 | | 7.9 | 0.4 | 1.8 | 0.4 | |
| Sewer Capital | 11194 | SAFETY- MWRP MBR FALL PROTECTION IMP | 4/1/2020 | 6/30/2022 | \$179,164 | \$0 | \$262,000 | | | | | | | | | | | | | 5.4 | 3.7 | 35.4 | 45.0 | | 7.9 | 0.4 | 1.8 | 0.4 | |
| Recycled Capital | 10379 | SAN JOAQUIN RESERVOIR FILTRATION FACILITY | 2/1/2019 | 12/31/2022 | \$2,484,533 | \$219,539 | \$3,654,000 | | | | | | | | | | | | | 8.8 | 4.2 | 15.3 | 49.2 | 7.9 | 13.1 | | 1.5 | | |
| Recycled Capital | 03780 | SAN JOAQUIN RESERVOIR LINER REPLACEMENT | 6/1/2023 | 12/31/2026 | \$0 | \$3,158 | \$2,880,400 | | | | | | | | | | | | | | | | | | | | | | |
| Potable Capital | 11869 | SAND CANYON PROFESSIONAL CENTER - GENERAL | 4/1/2021 | 7/31/2022 | \$4,977,652 | \$28,125 | \$5,350,000 | 100.0 | | | | | | | | | | | | | | | | | | | | | |
| Potable Capital | 10101 | SANTIAGO CANYON FLEMING STORAGE AND PUM | 1/1/2018 | 6/30/2024 | \$1,658,502 | \$2,910,788 | \$9,001,000 | 10.5 | 89.5 | | | | | | | | | | | | | | | | | | | | |
| Potable Capital | 01398 | SANTIAGO CYN AREA PS IMPROVEMENTS | 6/1/2018 | 11/30/2023 | \$1,721,214 | \$3,348,412 | \$6,613,000 | | 100.0 | | | | | | | | | | | | | | | | | | | | |
| Potable Capital | 01813 | SANTIAGO DAM OUTLET AND SPILLWAY | 7/1/2013 | 6/30/2026 | \$2,804,367 | \$2,804,367 | \$139,307,000 | 94.8 | 1.8 | 0.2 | 0.2 | 2.3 | 0.4 | 0.1 | 0.1 | 0.1 | | | | | | | | | | | | | |
| Recycled Capital | 11597 | SEAWATCH RW PRV | 4/1/2020 | 6/30/2022 | \$925,385 | \$0 | \$1,095,000 | | | | | | | | | | | | | 8.8 | 4.2 | 15.3 | 49.2 | 7.9 | 13.1 | | 1.5 | | |
| Sewer Capital | 11881 | SECONDARY CIRCLE CLARIFIER IMPROVEMENTS | 6/1/2023 | 6/30/2025 | \$0 | \$20,000 | \$460,000 | | | | | | | | | | | | | | | | | | | | | | |
| Sewer Capital | 07886 | SEWER SIPHON REHABILITATION | 1/1/2019 | 12/31/2021 | \$2,156,218 | \$0 | \$9,746,000 | | | | | | | | | | | | | | | | | | | | | | |
| Sewer Capital | 11841 | SEWER SIPHON REHABILITATION PHASE 2 | 2/1/2023 | 1/31/2026 | \$0 | \$136,111 | \$9,725,000 | | | | | | | | | | | | | | | | | | | | | | |
| Recycled Capital | 11834 | SGU PFAS TREATMENT | 6/1/2023 | 12/31/2025 | \$0 | \$1,818 | \$5,137,950 | | | | | | | | | | | | | 8.8 | 4.2 | 15.3 | 49.2 | 7.9 | 13.1 | | 1.5 | | |
| Sewer Capital | 07452 | SHII CANYON VIEW (AT JAMBOREE RD) 15 SS | 6/1/2023 | 7/31/2026 | \$0 | \$2,899 | \$259,600 | | | | | | | | | | | | | | | | | | | | | | |
| Potable Capital | 07376 | SHII PH1 D ST (FROM SANTIAGO TO B ST) 12 DW | 6/1/2023 | 7/31/2026 | \$0 | \$1,976 | \$176,000 | | | | | | | 100.0 | | | | | | | | | | | | | | | |
| Recycled Capital | 07377 | SHII PH1 D ST (FROM SANTIAGO TO B ST) 6 RW | 6/1/2023 | 7/31/2026 | \$0 | \$1,822 | \$162,800 | | | | | | | | | | | | | | | | | | | | | | |
| Sewer Capital | 07379 | SHII PH2 A ST (FROM SANTIAGO TO B ST) 12 SS | 6/1/2023 | 7/31/2026 | \$0 | \$2,283 | \$205,000 | | | | | | | | | | | | | | | | | | | | | | |
| Recycled Capital | 07380 | SHII PH2 A/B/F ST (TR 17995) 6 AND 8 RW | 6/1/2023 | 7/31/2026 | \$0 | \$5,464 | \$487,000 | | | | | | | | | | | | | | | | | | | | | | |
| Potable Capital | 07378 | SHII PH2 B/F ST (FROM C ST TO Z5 RES) 12 DW | 6/1/2023 | 7/31/2026 | \$0 | \$10,874 | \$974,000 | | | | | | | 100.0 | | | | | | | | | | | | | | | |
| Potable Capital | 07451 | SHII SANTIAGO CYN (FROM D ST TO A ST) 12 DW | 6/1/2023 | 7/31/2026 | \$0 | \$13,156 | \$1,126,900 | | | | | | | 100.0 | | | | | | | | | | | | | | | |
| Recycled Capital | 07453 | SHII SANTIAGO CYN AND JAMBOREE 6 8 12 16 RW | 6/1/2023 | 7/31/2026 | \$0 | \$25,798 | \$2,228,300 | | | | | | | | | | | | | | | | | | | | | | |
| Recycled Capital | 07486 | SHII SOUTH TR 16199 12 8 AND 6 RW | 6/1/2023 | 7/31/2026 | \$0 | \$8,951 | \$808,000 | | | | | | | | | | | | | | | | | | | | | | |
| Sewer Capital | 07484 | SHII SOUTH TR 16199 15 AND 12 SS | 6/1/2023 | 7/31/2026 | \$0 | \$7,182 | \$668,000 | | | | | | | | | | | | | | | | | | | | | | |
| Potable Capital | 11588 | SILVERADO CANYON RD BRIDGE 174 AT SILVERAD | 2/16/2017 | 5/31/2023 | \$107,572 | \$351,843 | \$504,900 | 100.0 | | | | | | | | | | | | | | | | | | | | | |
| Potable Capital | 11587 | SILVERADO CANYON RD BRIDGE 175 AT LADD CA | 3/1/2020 | 4/29/2022 | \$15,527 | \$0 | \$674,900 | 100.0 | | | | | | | | | | | | | | | | | | | | | |
| Potable Capital | 11589 | SILVERADO CANYON RD BRIDGE 177 AT READ RES | 2/16/2017 | 7/31/2024 | \$16,470 | \$25,963 | \$564,900 | 100.0 | | | | | | | | | | | | | | | | | | | | | |
| Potable Capital | 11746 | SITES RESERVOIR PLANNING AND ENVIRONMENT | 12/1/2020 | 12/31/2021 | \$323,769 | \$0 | \$701,500 | | 35.1 | 4.8 | 3.4 | 46.4 | 7.8 | 0.4 | 1.6 | 0.5 | | | | | | | | | | | | | |
| Sewer Capital | 11189 | SOCWA ETM AVAC VALVE REPLACEMENT REACHE | 7/1/2019 | 12/31/2024 | \$24,278 | \$213,191 | \$1,000,000 | | | | | | | | | | | | | | | | | | | | | | |
| Sewer Capital | 03750 | SOCWA ETM PROTECTION-TRAIL BRIDGE CROSSIN | 8/1/2016 | 12/31/2025 | \$44,285 | \$3,226 | \$1,215,000 | | | | | | | | | | | | | | | | | | | | | | |
| Sewer Capital | 11906 | SOCWA ETM REACH B/C REPLACEMENT | 1/1/2022 | 12/31/2025 | \$75,000 | \$150,000 | \$3,800,000 | | | | | | | | | | | | | | | | | | | | | | |
| Potable Capital | 11815 | SR 55 WIDENING DW RELOCATION | 7/1/2021 | 12/31/2022 | \$59,225 | \$72,775 | \$132,000 | 100.0 | | | | | | | | | | | | | | | | | | | | | |
| Sewer Capital | 11583 | SR 55 WIDENING SEWER RELOCATION | 7/1/2020 | 12/31/2021 | \$67,398 | \$0 | \$262,000 | | | | | | | | | | | | | | | | | | | | | | |

Irvine Ranch Water District
Capital Budget for Fiscal Year 2021-22 and Fiscal Year 2022-23
Section 2 - Flagged Projects

| Project Number | Project Title | Flagged | Status |
|----------------|---|---------|----------------|
| 10854 | KERN FAN GROUNDWATER STORAGE | Yes | Active |
| 01477 | LAWRP TREATMENT PROCESS MODERNIZATION | Yes | Active |
| 11832 | MWRP TRIBUTARY GRAVITY DIVERSION TO LAWRP | Yes | Board Approved |

Irvine Ranch Water District
 Capital Budget for Fiscal Year 2021-22 and 2022-23
 Section 3 - Summary of Projected Expenditures by Category

| Expenditure Category | FY 2021-22 Direct | FY 2022-23 Direct | Total Direct |
|-------------------------------|----------------------|----------------------|------------------------|
| Baker WTP | \$173,503 | \$120,497 | \$294,000 |
| Development - Lake Forest | \$854,861 | \$966,789 | \$2,179,000 |
| Development - Other | \$289,571 | \$135,687 | \$1,356,000 |
| Development - PA1 | \$88,688 | \$96,400 | \$1,489,200 |
| Development - PA40 | \$125,139 | \$216,233 | \$447,700 |
| Development - PA51 | \$3,211,214 | \$341,594 | \$25,768,200 |
| Development - PA9B | \$0 | \$14,275 | \$506,100 |
| Development - SHII | \$0 | \$80,405 | \$7,095,600 |
| Development - Sub Regional | \$1,238,939 | \$72,727 | \$1,615,000 |
| Development - Tustin Legacy | \$183,232 | \$205,096 | \$718,000 |
| General Plant | \$2,440,600 | \$1,682,100 | \$4,122,700 |
| Nonpotable Storage | \$8,740,946 | \$6,047,187 | \$149,801,600 |
| OCSD - CORF - Solids Lease | \$9,281,125 | \$13,461,750 | \$239,203,000 |
| OCWD Annexation | \$625,400 | \$634,800 | \$22,861,400 |
| Operational | \$21,012,911 | \$19,017,493 | \$214,241,800 |
| Planning | \$2,335,836 | \$2,099,019 | \$5,231,900 |
| Property Management | \$4,977,652 | \$28,125 | \$5,350,000 |
| Replacement - Facilities | \$28,118,225 | \$17,959,668 | \$113,288,350 |
| Replacement - FY System | \$10,559,000 | \$10,309,000 | \$20,868,000 |
| Replacement-Business Software | \$2,348,559 | \$0 | \$3,374,000 |
| Sewage Treatment | \$2,635,357 | \$5,442,696 | \$299,852,250 |
| Solids Handling | \$66,604 | \$8,571 | \$267,123,100 |
| Water Banking | \$14,368,269 | \$25,052,600 | \$116,112,000 |
| Water Resources | \$1,597,635 | \$1,264,302 | \$3,748,500 |
| Well Rehabilitation | \$1,411,520 | \$2,207,992 | \$6,636,000 |
| | \$116,684,786 | \$107,465,003 | \$1,513,283,400 |

Irvine Ranch Water District
 Capital Budget for Fiscal Year 2021-22 and Fiscal Year 2022-23
 Section 4 - FY 2021-22 Details of Projected Expenditures by Category

| FY Exp Category | FY 21-22 Direct | Total Direct | FY Replacement | FY Developed | FY Developing |
|---|--------------------|--------------------|-----------------|------------------|------------------|
| Baker WTP | | | | | |
| 11864 BAKER WTP DIESEL FUEL STORAGE | \$173,503 | \$294,000 | \$0 | \$141,405 | \$32,098 |
| | \$173,503 | \$294,000 | \$0 | \$141,405 | \$32,098 |
| Development - Lake Forest | | | | | |
| 10096 LAKE FOREST NAKASE DW IMPROVEMENTS | \$105,475 | \$437,000 | \$0 | \$105,475 | \$0 |
| 11582 LAKE FOREST NAKASE 24 ZB RW | \$680,053 | \$1,365,000 | \$0 | \$492,358 | \$187,695 |
| 11749 LAKE FOREST NAKASE 12 INCH SANITARY SEWER | \$69,333 | \$377,000 | \$0 | \$69,333 | \$0 |
| | \$854,861 | \$2,179,000 | \$0 | \$667,166 | \$187,695 |
| Development - Other | | | | | |
| 11395 PA 12 INNOVATION PARK 12DW | \$230,346 | \$410,000 | \$0 | \$0 | \$230,346 |
| 11815 SR 55 WIDENING DW RELOCATION | \$59,225 | \$132,000 | \$59,225 | \$0 | \$0 |
| | \$289,571 | \$542,000 | \$59,225 | \$0 | \$230,346 |
| Development - PA1 | | | | | |
| 01722 PA1 NHB4 ORCHARD HILLS RW | \$27,915 | \$566,500 | \$0 | \$0 | \$27,915 |
| 11500 PA 1 JEFFREY RD EXT 6RW & 12RW | \$60,773 | \$163,000 | \$0 | \$0 | \$60,773 |
| | \$88,688 | \$729,500 | \$0 | \$0 | \$88,688 |
| Development - PA40 | | | | | |
| 03734 PA12 INNOVATION PARK RW | \$125,139 | \$447,700 | \$0 | \$0 | \$125,139 |
| | \$125,139 | \$447,700 | \$0 | \$0 | \$125,139 |
| Development - PA51 | | | | | |
| 10734 PA51 MARINE WY (BARRANCA TO OCTA) 16 RW | \$6,904 | \$512,000 | \$0 | \$0 | \$6,904 |

| FY Exp Category | FY 21-22 Direct | Total Direct | FY Replacement | FY Developed | FY Developing |
|--|--------------------|-----------------|----------------|--------------|---------------|
| 10576 PA51 REACH B EAST 18 SS | \$786,293 | \$2,580,000 | \$0 | \$0 | \$786,293 |
| 10574 PA51 MARINE WAY AT OCTA 18 SS | \$356,434 | \$970,000 | \$0 | \$0 | \$356,434 |
| 10447 PA51 MARINE WAY AND BAKE 16RW | \$10,047 | \$273,000 | \$0 | \$0 | \$10,047 |
| 10344 PA51 D5 A ST 12_10 RW | \$406,751 | \$1,059,000 | \$0 | \$0 | \$406,751 |
| 10255 PA51 D5 CADENCE S 10RW | \$3,966 | \$138,000 | \$0 | \$0 | \$3,966 |
| 10117 PA51 D5 CADENCE S FROM O TO CHINON 12SS | \$16,921 | \$487,000 | \$0 | \$0 | \$16,921 |
| 10024 PA51 D5 CHINON 16 RW, 12 RW and 10 RW ZONE C | \$19,565 | \$457,000 | \$0 | \$0 | \$19,565 |
| 10796 PA51 D5 "P" ST & CHINON 12DW | \$34,762 | \$147,000 | \$0 | \$0 | \$34,762 |
| 10022 PA51 D5 CHINON FROM SOUTH CADENCE TO CADENCE, 12 D | \$134,196 | \$392,000 | \$0 | \$0 | \$134,196 |
| 10864 PA51 D5 ASTOR 10RW | \$98,929 | \$342,000 | \$0 | \$0 | \$98,929 |
| 10023 PA51 D5 CHINON FROM SOUTH CADENCE TO CADENCE 12 SS | \$22,090 | \$502,000 | \$0 | \$0 | \$22,090 |
| 10804 PA51 P ST & CADENCE 12_10RW | \$141,369 | \$497,000 | \$0 | \$0 | \$141,369 |
| 10860 PA51 D5 MERIT 12_DW | \$25,759 | \$72,000 | \$0 | \$0 | \$25,759 |
| 10861 PA51 D5 MERIT 12_10_RW | \$85,183 | \$312,000 | \$0 | \$0 | \$85,183 |
| 07022 PA51 GP-2 ST (FROM GP-3 TO BOSQUE) 12 RWZC | \$3,587 | \$180,400 | \$0 | \$0 | \$3,587 |
| 10863 PA51 D5 ASTOR 12DW | \$51,329 | \$147,000 | \$0 | \$0 | \$51,329 |
| 10254 PA51 D5 CADENCE S 12DW | \$31,630 | \$138,000 | \$0 | \$0 | \$31,630 |
| 10865 PA51 D5 E ST 12RW | \$47,048 | \$181,000 | \$0 | \$0 | \$47,048 |
| 10868 PA51 D6 P ST 18SS | \$151,185 | \$542,000 | \$0 | \$0 | \$151,185 |
| 10875 PA51 D5 F ST N ST 12DW | \$57,430 | \$157,000 | \$0 | \$0 | \$57,430 |
| 10878 PA51 D5 F ST N ST 12_10RW | \$85,447 | \$317,000 | \$0 | \$0 | \$85,447 |
| 11176 PA51 D6 MARINE AND ALTON 12DW | \$5,079 | \$488,000 | \$0 | \$0 | \$5,079 |
| 11177 PA51 D6 MARINE AND ALTON 16RW | \$8,925 | \$813,000 | \$0 | \$0 | \$8,925 |
| 10862 PA51 D5 BB ST 12 RW | \$83,755 | \$297,000 | \$0 | \$0 | \$83,755 |
| 05536 PA51 LQ ST FROM BOSQUE TO Z ST 12 RW | \$6,432 | \$416,900 | \$0 | \$0 | \$6,432 |
| 04153 PA51 MARINE WAY ZN3 DW | \$6,772 | \$420,200 | \$0 | \$0 | \$6,772 |
| 04268 PA51 RIDGE VALLEY-MARINE WAY TO TRABUCO DW | \$6,836 | \$486,200 | \$0 | \$0 | \$6,836 |

| FY Exp Category | FY 21-22 Direct | Total Direct | FY Replacement | FY Developed | FY Developing |
|---|--------------------|---------------------|----------------|--------------|--------------------|
| 10343 PA51 D5 A ST 12 DW | \$300,311 | \$989,000 | \$0 | \$0 | \$300,311 |
| 05535 PA51 LQ ST FROM BOSQUE TO Z ST 12 -SS | \$18,981 | \$1,075,300 | \$0 | \$0 | \$18,981 |
| 06732 PA51 GP MAGNET (FROM RIDGE V. TO BOSQUE) 6 RW ZB | \$3,796 | \$206,800 | \$0 | \$0 | \$3,796 |
| 05756 PA51 B ST FROM SOCIABLE TO IRVINE BLV 12 ZN 4 | \$4,020 | \$243,100 | \$0 | \$0 | \$4,020 |
| 05757 PA51 B ST FROM SOCIABLE TO IRVINE BLV 16 ZN C | \$3,993 | \$240,900 | \$0 | \$0 | \$3,993 |
| 05758 PA51 CADENCE-PUSAN TO CHINON 12_16RW | \$4,154 | \$271,700 | \$0 | \$0 | \$4,154 |
| 05788 PA51 ALTON PKWY SS RELOCATION 12 AND 18 | \$20,771 | \$1,232,300 | \$0 | \$0 | \$20,771 |
| 05816 PA51 ALTON-TECHNOLOGY TO MUIRLANDS 12 DW | \$2,948 | \$177,100 | \$0 | \$0 | \$2,948 |
| 05817 PA51 ALTON-TECHNOLOGY TO MUIRLANDS SS RELOCATION | \$27,204 | \$1,326,300 | \$0 | \$0 | \$27,204 |
| 06048 PA51 MARINE WAY-ALTON TO BARRANCA 18 SS | \$13,975 | \$874,500 | \$0 | \$0 | \$13,975 |
| 06086 PA51 MARINE WAY FROM ALTON TO BARRANCA 12 DW ZN 3 | \$8,845 | \$438,700 | \$0 | \$0 | \$8,845 |
| 06514 PA51 GP GP-1 ST (MARINE TO GP-2 ST) 10 RW | \$9,783 | \$536,800 | \$0 | \$0 | \$9,783 |
| 06538 PA51 GP-2 ST (BOSQUE TO GP1 ST) 10 RW | \$21,070 | \$1,169,400 | \$0 | \$0 | \$21,070 |
| 06537 PA51 GP-2 ST (BOSQUE TO GP1 ST) 12 SS | \$5,117 | \$333,300 | \$0 | \$0 | \$5,117 |
| 06087 PA51 MARINE WAY-ALTON TO BARRANCA 16 RW ZN B | \$9,515 | \$481,600 | \$0 | \$0 | \$9,515 |
| 04278 PA51 RIDGE VALLEY-MARINE WAY TO TRABUCO RW | \$7,072 | \$464,200 | \$0 | \$0 | \$7,072 |
| 06595 PA51 GP TERRAPIN (TRABUCO TO CADENCE) 6 RW ZB | \$3,212 | \$180,400 | \$0 | \$0 | \$3,212 |
| 06513 PA51 GP-1 ST (MARINE TO GP-2 ST) 12 SS | \$14,448 | \$753,300 | \$0 | \$0 | \$14,448 |
| 06512 PA51 GP-1 ST (MARINE TO GP-2 ST) 12 DW | \$6,622 | \$355,300 | \$0 | \$0 | \$6,622 |
| 06476 PA51 MARINE WAY. RIDGE VALLEY TO 3000 FT EAST | \$7,592 | \$426,800 | \$0 | \$0 | \$7,592 |
| 06209 PA51 MARINE WAY: SR133 TO RIDGE VALLEY 6 ZONE B | \$13,126 | \$53,900 | \$0 | \$0 | \$13,126 |
| 06208 PA51 MARINE WAY: SR133 TO RIDGE VALLEY 12 ZONE 3 | \$1,604 | \$82,500 | \$0 | \$0 | \$1,604 |
| 06536 PA51 GP-2 ST (BOSQUE TO GP1 ST) 12 DW | \$8,428 | \$531,300 | \$0 | \$0 | \$8,428 |
| | \$3,211,214 | \$25,768,200 | \$0 | \$0 | \$3,211,214 |

Development - Sub Regional

| | | | | | |
|---|-------------|-------------|-----|-----------|-----------|
| 11584 PA 12 REGIONAL ZONE A RW IMPROVEMENTS | \$1,238,939 | \$1,615,000 | \$0 | \$896,992 | \$341,947 |
|---|-------------|-------------|-----|-----------|-----------|

| FY Exp Category | FY 21-22 Direct | Total Direct | FY Replacement | FY Developed | FY Developing |
|---|--------------------|----------------------|--------------------|--------------------|--------------------|
| | \$1,238,939 | \$1,615,000 | \$0 | \$896,992 | \$341,947 |
| Development - Tustin Legacy | | | | | |
| 07535 TUSTIN LEGACY FLIGHT DR 6 RW | \$4,891 | \$270,000 | \$0 | \$0 | \$4,891 |
| 11359 TL NH D SOUTH 12SS | \$178,341 | \$448,000 | \$0 | \$0 | \$178,341 |
| | \$183,232 | \$718,000 | \$0 | \$0 | \$183,232 |
| General Plant | | | | | |
| 11926 GP_Dep 250_FY 21_22 | \$618,650 | \$618,650 | \$478,835 | \$111,357 | \$28,458 |
| 11927 GP_Dep 600_FY 21_22 | \$672,450 | \$672,450 | \$520,476 | \$121,041 | \$30,933 |
| 11928 GP_Dep 870_FY 21_22 | \$1,149,500 | \$1,149,500 | \$889,713 | \$206,910 | \$52,877 |
| | \$2,440,600 | \$2,440,600 | \$1,889,024 | \$439,308 | \$112,268 |
| Nonpotable Storage | | | | | |
| 03808 SYPHON RESERVOIR IMPROVEMENTS | \$5,921,513 | \$146,000,000 | \$0 | \$4,287,176 | \$1,634,338 |
| 11168 LAKE FOREST ZONE C RECYCLED WATER PUMP STATION | \$2,819,433 | \$3,801,600 | \$1,691,660 | \$0 | \$1,127,773 |
| | \$8,740,946 | \$149,801,600 | \$1,691,660 | \$4,287,176 | \$2,762,111 |
| OCSD - CORF - Solids Lease | | | | | |
| 10502 OCSD CORF LONG TERM CAPITAL PROGRAM 2018 TO 2050 | \$8,781,125 | \$210,379,000 | \$6,383,878 | \$1,958,191 | \$439,056 |
| 10594 OCSD SOLIDS LEASE LONG TERM CAPITAL PROGRAM 2018 to 2 | \$500,000 | \$12,082,000 | \$0 | \$402,000 | \$98,000 |
| | \$9,281,125 | \$222,461,000 | \$6,383,878 | \$2,360,191 | \$537,056 |
| OCWD Annexation | | | | | |
| 10503 OCWD ANNEXATION LONG TERM CAPITAL PROGRAM 2018 TO | \$625,400 | \$22,861,400 | \$0 | \$509,701 | \$115,699 |
| | \$625,400 | \$22,861,400 | \$0 | \$509,701 | \$115,699 |
| Operational | | | | | |
| 01398 SANTIAGO CYN AREA PS IMPROVEMENTS | \$1,721,214 | \$6,613,000 | \$0 | \$1,721,214 | \$0 |
| 10559 BAKER WTP OUTFALL STRUCTURE, FENCING & ACCESS IMPRO | \$1,122 | \$1,422,500 | \$0 | \$915 | \$208 |
| 10101 SANTIAGO CANYON FLEMING STORAGE AND PUMP STATION I | \$1,658,502 | \$9,001,000 | \$174,143 | \$1,484,359 | \$0 |

| FY Exp Category | FY 21-22 Direct | Total Direct | FY Replacement | FY Developed | FY Developing |
|---|---------------------|----------------------|--------------------|---------------------|--------------------|
| 07882 CNG AND DIESEL/GASOLINE FILLING STATION-SS | \$2,666,573 | \$5,257,000 | \$621,312 | \$1,559,945 | \$485,316 |
| 07881 CNG AND DIESEL/GASOLINE FILLING STATION-DW | \$1,333,843 | \$2,630,000 | \$310,785 | \$833,652 | \$189,406 |
| 06214 PDF SODIUM HYPOCHLORITE STORAGE AND FEED SYSTEM | \$3,188,124 | \$8,026,900 | \$682,259 | \$2,043,588 | \$462,278 |
| 06161 OPERATIONS CENTER FACILITY REFRESH-SS | \$79,864 | \$740,000 | \$79,864 | \$0 | \$0 |
| 01813 SANTIAGO DAM OUTLET AND SPILLWAY | \$2,804,367 | \$139,307,000 | \$2,658,540 | \$114,979 | \$30,848 |
| 11123 LAKE FOREST WOODS SEWER ACCESS IMPROVEMENTS | \$49,691 | \$353,000 | \$49,691 | \$0 | \$0 |
| 06160 OPERATIONS CENTER FACILITY REFRESH-DW | \$42,500 | \$370,000 | \$42,500 | \$0 | \$0 |
| 11537 EMERGENCY GENERATOR FUEL STORAGE - SS | \$201,293 | \$522,000 | \$0 | \$161,840 | \$39,453 |
| 10379 SAN JOAQUIN RESERVOIR FILTRATION FACILITY | \$2,484,533 | \$3,654,000 | \$0 | \$1,798,802 | \$685,731 |
| 11855 PURCHASING WAREHOUSE-SS | \$174,000 | \$797,000 | \$0 | \$139,896 | \$34,104 |
| 11854 PURCHASING WAREHOUSE-DW | \$174,000 | \$797,000 | \$0 | \$141,810 | \$32,190 |
| 11840 TURTLE ROCK ZONE 3 RESERVOIR CHLORAMINE BOOSTER STA | \$316,250 | \$1,705,000 | \$0 | \$257,744 | \$58,506 |
| 11720 WELL OPA 1 PFAS TREATMENT | \$299,939 | \$363,000 | \$0 | \$244,450 | \$55,489 |
| 11586 AUTOMATION CYBERSECURITY - DW | \$449,750 | \$1,350,000 | \$0 | \$366,546 | \$83,204 |
| 11536 EMERGENCY GENERATOR FUEL STORAGE - DW | \$288,142 | \$819,000 | \$0 | \$234,835 | \$53,306 |
| 11194 SAFETY- MWRP MBR FALL PROTECTION IMP | \$179,164 | \$262,000 | \$0 | \$144,048 | \$35,116 |
| 11192 GENERAL SECURITY SYSTEM MODIFICATIONS - SS | \$40,541 | \$125,000 | \$0 | \$33,122 | \$7,419 |
| 11171 WELL ET-1 PFAS TREATMENT | \$2,718,960 | \$5,167,450 | \$0 | \$1,968,527 | \$750,433 |
| 11157 RADIO TOWER IMP-RW | \$33,667 | \$236,000 | \$33,667 | \$0 | \$0 |
| 11156 RADIO TOWER IMP-SS | \$33,667 | \$236,000 | \$33,667 | \$0 | \$0 |
| 11154 RADIO TOWER IMP-DW | \$32,667 | \$228,000 | \$32,667 | \$0 | \$0 |
| 11602 GENERAL SECURITY SYSTEM MODIFICATIONS - DW | \$40,541 | \$125,000 | \$0 | \$33,041 | \$7,500 |
| | \$21,012,911 | \$190,106,850 | \$4,719,093 | \$13,283,311 | \$3,010,507 |
| Planning | | | | | |
| 11688 ASSET MANAGEMENT CAPITAL IMPROVEMENT PLAN SS | \$182 | \$225,500 | \$182 | \$0 | \$0 |
| 11781 CAPITAL PLANNING SUPPORT DW 21/22-22/23 | \$675,900 | \$1,351,800 | \$0 | \$550,859 | \$125,042 |

| FY Exp Category | FY 21-22 Direct | Total Direct | FY Replacement | FY Developed | FY Developing |
|---|--------------------|--------------------|--------------------|--------------------|------------------|
| 11791 NON-POTABLE WATER STUDIES 21/22-22/23 | \$50,000 | \$100,000 | \$0 | \$36,200 | \$13,800 |
| 11785 CAPITAL PLANNING SUPPORT SS 21/22-22/23 | \$675,900 | \$1,351,800 | \$0 | \$543,424 | \$132,476 |
| 11687 ASSET MANAGEMENT CAPITAL IMPROVEMENT PLAN RW | \$182 | \$225,500 | \$182 | \$0 | \$0 |
| 11686 ASSET MANAGEMENT CAPITAL IMPROVEMENT PLAN DW | \$182 | \$225,500 | \$182 | \$0 | \$0 |
| 07895 NTS MASTER PLAN UPDATE | \$257,591 | \$400,000 | \$257,591 | \$0 | \$0 |
| 11783 CAPITAL PLANNING SUPPORT RW 21/22-22/23 | \$675,900 | \$1,351,800 | \$0 | \$489,352 | \$186,548 |
| | \$2,335,836 | \$5,231,900 | \$258,136 | \$1,619,834 | \$457,866 |
| Property Management | | | | | |
| 11869 SAND CANYON PROFESSIONAL CENTER - GENERAL OFFICE (155 | \$4,977,652 | \$5,350,000 | \$4,977,652 | \$0 | \$0 |
| | \$4,977,652 | \$5,350,000 | \$4,977,652 | \$0 | \$0 |
| Replacement - Facilities | | | | | |
| 11615 BAKER PIPELINE RELOCATION IN SANTIAGO CREEK | \$809,620 | \$1,005,400 | \$809,620 | \$0 | \$0 |
| 11571 WOODBRIDGE RW PIPELINE REPLACEMENT (ACP) | \$9,029,944 | \$11,018,000 | \$9,029,944 | \$0 | \$0 |
| 11585 PUBLIC OUTREACH CAMPAIGN REPLACEMENTS | \$97,676 | \$500,000 | \$97,676 | \$0 | \$0 |
| 11587 SILVERADO CANYON RD BRIDGE 175 AT LADD CANYON DW IM | \$15,527 | \$674,900 | \$15,527 | \$0 | \$0 |
| 11588 SILVERADO CANYON RD BRIDGE 174 AT SILVERADO COMMUNI | \$107,572 | \$504,900 | \$107,572 | \$0 | \$0 |
| 11589 SILVERADO CANYON RD BRIDGE 177 AT READ RESERVOIR DW I | \$16,470 | \$564,900 | \$16,470 | \$0 | \$0 |
| 11593 MODJESKA RD BRIDGE 172 AT MARKUSON RD DW IMPROVEM | \$16,470 | \$564,900 | \$16,470 | \$0 | \$0 |
| 11599 MWRP PRIMARY CLARIFIERS 1-5 COVERS REPLACEMENT | \$416,243 | \$1,419,000 | \$416,243 | \$0 | \$0 |
| 11570 DRWF WELLSITE REHAB | \$267,312 | \$1,588,000 | \$267,312 | \$0 | \$0 |
| 11899 MWRP PAVING | \$70,623 | \$243,000 | \$70,623 | \$0 | \$0 |
| 11906 SOCWA ETM REACH B/C REPLACEMENT | \$75,000 | \$3,800,000 | \$75,000 | \$0 | \$0 |
| 11912 COASTAL ZONE 1-2 PS AND ZONE 2-4 PS REHABILITATION | \$200,495 | \$1,392,000 | \$200,495 | \$0 | \$0 |
| 11568 COASTAL ZNS B&D BPS ELECTRICAL REPLACEMENT | \$30,772 | \$1,737,000 | \$30,772 | \$0 | \$0 |
| 11597 SEAWATCH RW PRV | \$925,385 | \$1,095,000 | \$0 | \$669,979 | \$255,406 |
| 07892 MWRP TERTIARY FILTER REHABILITATION | \$717,508 | \$9,875,600 | \$717,508 | \$0 | \$0 |

| FY Exp Category | FY 21-22 Direct | Total Direct | FY Replacement | FY Developed | FY Developing |
|---|---------------------|---------------------|---------------------|------------------|------------------|
| 11567 MORSE/GILLETTE DW REPLACEMENT | \$463,392 | \$674,000 | \$463,392 | \$0 | \$0 |
| 03750 SOCWA ETM PROTECTION-TRAIL BRIDGE CROSSING (PC 21) | \$44,285 | \$1,215,000 | \$44,285 | \$0 | \$0 |
| 05476 ZONE A TO RATTLESNAKE RESERVOIR PUMP STATION | \$7,237,695 | \$22,008,000 | \$7,237,695 | \$0 | \$0 |
| 11583 SR 55 WIDENING SEWER RELOCATION | \$67,398 | \$262,000 | \$67,398 | \$0 | \$0 |
| 07886 SEWER SIPHON REHABILITATION | \$2,156,218 | \$9,746,000 | \$2,156,218 | \$0 | \$0 |
| 07898 PLC REPLACEMENT-DW | \$102,389 | \$670,000 | \$102,389 | \$0 | \$0 |
| 07899 PLC REPLACEMENT-RW | \$32,111 | \$210,000 | \$32,111 | \$0 | \$0 |
| 10542 VAULT LID REPLACEMENT-IRV BLVD | \$20,000 | \$1,078,350 | \$20,000 | \$0 | \$0 |
| 11122 HATS DIVERSION STRUCTURE REHABILITATION | \$445,580 | \$707,000 | \$445,580 | \$0 | \$0 |
| 11142 NTS-WOODBRIDGE NTS RELOCATION | \$57,600 | \$120,000 | \$57,600 | \$0 | \$0 |
| 11174 PLC REPLACEMENT-SS | \$70,909 | \$220,000 | \$70,909 | \$0 | \$0 |
| 11189 SOCWA ETM AVAC VALVE REPLACEMENT REACHES D AND E (P | \$24,278 | \$1,000,000 | \$24,278 | \$0 | \$0 |
| 11483 DATS MISCELLANEOUS REHABILITATION | \$1,956,779 | \$2,278,500 | \$1,956,779 | \$0 | \$0 |
| 05761 15 MG ZONE 1 RESERVOIR INTERIOR COATING | \$2,642,973 | \$2,748,500 | \$2,642,973 | \$0 | \$0 |
| | \$28,118,225 | \$78,919,950 | \$27,192,840 | \$669,979 | \$255,406 |

Replacement - FY System

| | | | | | |
|---|---------------------|---------------------|---------------------|------------|------------|
| 11081 LAW RP SYSTEM REPLACEMENTS 21/22 | \$138,000 | \$138,000 | \$138,000 | \$0 | \$0 |
| 11772 GENERAL SYSTEM REPLACEMENTS AND MODIFICATIONS DW 2 | \$6,283,000 | \$6,283,000 | \$6,283,000 | \$0 | \$0 |
| 11775 GENERAL SYSTEM REPLACEMENTS AND MODIFICATIONS RW 2 | \$2,103,000 | \$2,103,000 | \$2,103,000 | \$0 | \$0 |
| 11778 GENERAL SYSTEM REPLACEMENTS AND MODIFICATIONS SS 21 | \$2,035,000 | \$2,035,000 | \$2,035,000 | \$0 | \$0 |
| | \$10,559,000 | \$10,559,000 | \$10,559,000 | \$0 | \$0 |

Replacement-Business Software

| | | | | | |
|---------------------------------------|-------------|-------------|-------------|-----|-----|
| 10547 CC&B & OUBI SOFTWARE UPGRADE-SS | \$1,005,529 | \$1,424,500 | \$1,005,529 | \$0 | \$0 |
| 11888 MAXIMO SCHEDULER REPLACEMENT-DW | \$75,000 | \$75,000 | \$75,000 | \$0 | \$0 |
| 11889 MAXIMO SCHEDULER REPLACEMENT-SS | \$150,000 | \$150,000 | \$150,000 | \$0 | \$0 |
| 10546 CC&B & OUBI SOFTWARE UPGRADE-DW | \$1,005,529 | \$1,424,500 | \$1,005,529 | \$0 | \$0 |

| FY Exp Category | FY 21-22 Direct | Total Direct | FY Replacement | FY Developed | FY Developing |
|---|---------------------|----------------------|--------------------|---------------------|--------------------|
| 11808 ORACLE BI UPGRADE 2021 - DW | \$56,250 | \$150,000 | \$56,250 | \$0 | \$0 |
| 11810 ORACLE BI UPGRADE 2021 - SS | \$56,250 | \$150,000 | \$56,250 | \$0 | \$0 |
| | \$2,348,559 | \$3,374,000 | \$2,348,559 | \$0 | \$0 |
| Sewage Treatment | | | | | |
| 01477 LAWRP TREATMENT PROCESS MODERNIZATION | \$2,632,500 | \$202,434,250 | \$2,632,500 | \$0 | \$0 |
| 11878 LAWRP DIVERSION TO MWRP DURING CONSTRUCTION | \$2,857 | \$11,671,000 | \$0 | \$2,297 | \$560 |
| | \$2,635,357 | \$214,105,250 | \$2,632,500 | \$2,297 | \$560 |
| Solids Handling | | | | | |
| 04286 MWRP BIOSOLIDS AND ENERGY RECOVERY FACILITIES | \$65,175 | \$265,542,100 | \$29,655 | \$30,372 | \$5,149 |
| 11879 MWRP SLUDGE RECEIVING STATION FACILITY | \$1,429 | \$1,581,000 | \$0 | \$1,149 | \$280 |
| | \$66,604 | \$267,123,100 | \$29,655 | \$31,520 | \$5,429 |
| Water Banking | | | | | |
| 10854 KERN FAN GROUNDWATER STORAGE | \$14,044,500 | \$115,410,500 | \$0 | \$11,446,268 | \$2,598,233 |
| 11746 SITES RESERVOIR PLANNING AND ENVIRONMENTAL REVIEW | \$323,769 | \$701,500 | \$0 | \$263,872 | \$59,897 |
| | \$14,368,269 | \$116,112,000 | \$0 | \$11,710,139 | \$2,658,130 |
| Water Resources | | | | | |
| 07682 PILOT SOUTH BASIN GROUNDWATER CLEANUP | \$333,333 | \$1,127,500 | \$0 | \$271,667 | \$61,667 |
| 11799 WATER STUDIES 21/22-22/23 | \$735,000 | \$1,470,000 | \$0 | \$599,025 | \$135,975 |
| 11187 RW CONVERSION IMPROVEMENTS FOR OFF-SITE 21/22 | \$444,000 | \$444,000 | \$444,000 | \$0 | \$0 |
| 11747 DELTA CONVEYANCE PROJECT PLANNING AND ENVIRONMENT | \$85,302 | \$263,000 | \$0 | \$69,521 | \$15,781 |
| | \$1,597,635 | \$3,304,500 | \$444,000 | \$940,212 | \$213,422 |
| Well Rehabilitation | | | | | |
| 11827 WELL REHAB-WELL 51 | \$736,491 | \$900,000 | \$736,491 | \$0 | \$0 |
| 07087 WELL REHAB-DRWF 10 | \$40,692 | \$810,000 | \$40,692 | \$0 | \$0 |
| 07088 WELL REHAB-DRWF 11 | \$31,538 | \$770,000 | \$31,538 | \$0 | \$0 |

| FY Exp Category | FY 21-22 Direct | Total Direct | FY Replacement | FY Developed | FY Developing |
|--|----------------------|------------------------|---------------------|---------------------|---------------------|
| 07092 WELL REHAB-DRWF 01 | \$30,714 | \$770,000 | \$30,714 | \$0 | \$0 |
| 10098 WELL REHAB-DRWF 13 | \$31,538 | \$770,000 | \$31,538 | \$0 | \$0 |
| 11050 WELL MAINTENANCE AND REHABILITATION 21/22-DW | \$360,000 | \$360,000 | \$360,000 | \$0 | \$0 |
| 11127 WELL MAINTENANCE AND REHABILITATION 21/22-RW | \$90,000 | \$90,000 | \$90,000 | \$0 | \$0 |
| 11137 WELL REHAB-IDP 76 | \$90,545 | \$814,000 | \$90,545 | \$0 | \$0 |
| | \$1,411,520 | \$5,284,000 | \$1,411,520 | \$0 | \$0 |
| | \$116,684,786 | \$1,329,328,550 | \$64,596,741 | \$37,559,231 | \$14,528,813 |

Irvine Ranch Water District
 Capital Budget for Fiscal Year 2021-22 and Fiscal Year 2022-23
 Section 4 - FY 2022-23 Details of Projected Expenditures by Category

| FY Exp Category | FY 22-23 Direct | Total Direct | FY Replacement | FY Developed | FY Developing |
|--|--------------------|--------------------|-----------------|------------------|------------------|
| Baker WTP | | | | | |
| 11864 BAKER WTP DIESEL FUEL STORAGE | \$120,497 | \$294,000 | \$0 | \$98,205 | \$22,292 |
| | \$120,497 | \$294,000 | \$0 | \$98,205 | \$22,292 |
| Development - Lake Forest | | | | | |
| 10096 LAKE FOREST NAKASE DW IMPROVEMENTS | \$251,562 | \$437,000 | \$0 | \$251,562 | \$0 |
| 11582 LAKE FOREST NAKASE 24 ZB RW | \$544,209 | \$1,365,000 | \$0 | \$394,007 | \$150,202 |
| 11749 LAKE FOREST NAKASE 12 INCH SANITARY SEWER | \$171,017 | \$377,000 | \$0 | \$171,017 | \$0 |
| | \$966,789 | \$2,179,000 | \$0 | \$816,587 | \$150,202 |
| Development - Other | | | | | |
| 07086 CALIFORNIA AVE RW PIPELINE-ACADEMY TO THEORY | \$11,208 | \$814,000 | \$11,208 | \$0 | \$0 |
| 11395 PA 12 INNOVATION PARK 12DW | \$51,703 | \$410,000 | \$0 | \$0 | \$51,703 |
| 11815 SR 55 WIDENING DW RELOCATION | \$72,775 | \$132,000 | \$72,775 | \$0 | \$0 |
| | \$135,687 | \$1,356,000 | \$83,984 | \$0 | \$51,703 |
| Development - PA1 | | | | | |
| 01722 PA1 NHB4 ORCHARD HILLS RW | \$12,515 | \$566,500 | \$0 | \$0 | \$12,515 |
| 07173 PA1 PORTOLA PKWY SEWER REPLACEMENT | \$15,538 | \$759,700 | \$0 | \$0 | \$15,538 |
| 11500 PA 1 JEFFREY RD EXT 6RW & 12RW | \$68,347 | \$163,000 | \$0 | \$0 | \$68,347 |
| | \$96,400 | \$1,489,200 | \$0 | \$0 | \$96,400 |
| Development - PA40 | | | | | |
| 03734 PA12 INNOVATION PARK RW | \$216,233 | \$447,700 | \$0 | \$0 | \$216,233 |
| | \$216,233 | \$447,700 | \$0 | \$0 | \$216,233 |
| Development - PA51 | | | | | |

| FY Exp Category | FY 22-23 Direct | Total Direct | FY Replacement | FY Developed | FY Developing |
|--|--------------------|--------------------|----------------|--------------|------------------|
| 06209 PA51 MARINE WAY: SR133 TO RIDGE VALLEY 6 ZONE B | \$27,734 | \$53,900 | \$0 | \$0 | \$27,734 |
| 10022 PA51 D5 CHINON FROM SOUTH CADENCE TO CADENCE, 12 D | \$12,740 | \$392,000 | \$0 | \$0 | \$12,740 |
| 10254 PA51 D5 CADENCE S 12DW | \$2,935 | \$138,000 | \$0 | \$0 | \$2,935 |
| 10343 PA51 D5 A ST 12 DW | \$27,950 | \$989,000 | \$0 | \$0 | \$27,950 |
| 10796 PA51 D5 "P" ST & CHINON 12DW | \$78,274 | \$147,000 | \$0 | \$0 | \$78,274 |
| 10860 PA51 D5 MERIT 12_DW | \$2,525 | \$72,000 | \$0 | \$0 | \$2,525 |
| 10863 PA51 D5 ASTOR 12DW | \$5,049 | \$147,000 | \$0 | \$0 | \$5,049 |
| 10875 PA51 D5 F ST N ST 12DW | \$5,680 | \$157,000 | \$0 | \$0 | \$5,680 |
| 11176 PA51 D6 MARINE AND ALTON 12DW | \$65,118 | \$488,000 | \$0 | \$0 | \$65,118 |
| 11177 PA51 D6 MARINE AND ALTON 16RW | \$113,589 | \$813,000 | \$0 | \$0 | \$113,589 |
| | \$341,594 | \$3,396,900 | \$0 | \$0 | \$341,594 |
| Development - PA9B | | | | | |
| 01762 PA9B PHASE 5 GATEWAY PARK RW PIPES | \$14,275 | \$506,100 | \$0 | \$0 | \$14,275 |
| | \$14,275 | \$506,100 | \$0 | \$0 | \$14,275 |
| Development - SHII | | | | | |
| 07376 SHII PH1 D ST (FROM SANTIAGO TO B ST) 12 DW | \$1,976 | \$176,000 | \$0 | \$0 | \$1,976 |
| 07377 SHII PH1 D ST (FROM SANTIAGO TO B ST) 6 RW | \$1,822 | \$162,800 | \$0 | \$0 | \$1,822 |
| 07378 SHII PH2 B/F ST (FROM C ST TO Z5 RES) 12 DW | \$10,874 | \$974,000 | \$0 | \$0 | \$10,874 |
| 07379 SHII PH2 A ST (FROM SANTIAGO TO B ST) 12 SS | \$2,283 | \$205,000 | \$0 | \$0 | \$2,283 |
| 07380 SHII PH2 A/B/F ST (TR 17995) 6 AND 8 RW | \$5,464 | \$487,000 | \$0 | \$0 | \$5,464 |
| 07451 SHII SANTIAGO CYN (FROM D ST TO A ST) 12 DW | \$13,156 | \$1,126,900 | \$0 | \$0 | \$13,156 |
| 07452 SHII CANYON VIEW (AT JAMBOREE RD) 15 SS | \$2,899 | \$259,600 | \$0 | \$0 | \$2,899 |
| 07453 SHII SANTIAGO CYN AND JAMBOREE 6 8 12 16 RW | \$25,798 | \$2,228,300 | \$0 | \$0 | \$25,798 |
| 07484 SHII SOUTH TR 16199 15 AND 12 SS | \$7,182 | \$668,000 | \$0 | \$0 | \$7,182 |
| 07486 SHII SOUTH TR 16199 12 8 AND 6 RW | \$8,951 | \$808,000 | \$0 | \$0 | \$8,951 |
| | \$80,405 | \$7,095,600 | \$0 | \$0 | \$80,405 |

| FY Exp Category | FY 22-23 Direct | Total Direct | FY Replacement | FY Developed | FY Developing |
|--|---------------------|----------------------|--------------------|--------------------|--------------------|
| Development - Sub Regional | | | | | |
| 11584 PA 12 REGIONAL ZONE A RW IMPROVEMENTS | \$72,727 | \$1,615,000 | \$0 | \$52,655 | \$20,073 |
| | \$72,727 | \$1,615,000 | \$0 | \$52,655 | \$20,073 |
| Development - Tustin Legacy | | | | | |
| 11359 TL NH D SOUTH 12SS | \$205,096 | \$448,000 | \$0 | \$0 | \$205,096 |
| | \$205,096 | \$448,000 | \$0 | \$0 | \$205,096 |
| General Plant | | | | | |
| 11929 GP_Dep 250_FY 22_23 | \$406,650 | \$406,650 | \$402,990 | \$3,253 | \$407 |
| 11930 GP_Dep 600_FY 22_23 | \$237,450 | \$237,450 | \$235,313 | \$1,900 | \$237 |
| 11931 GP_Dep 870_FY 22_23 | \$1,038,000 | \$1,038,000 | \$1,028,658 | \$8,304 | \$1,038 |
| | \$1,682,100 | \$1,682,100 | \$1,666,961 | \$13,457 | \$1,682 |
| Nonpotable Storage | | | | | |
| 03808 SYPHON RESERVOIR IMPROVEMENTS | \$5,899,867 | \$146,000,000 | \$0 | \$4,271,504 | \$1,628,363 |
| 11168 LAKE FOREST ZONE C RECYCLED WATER PUMP STATION | \$147,320 | \$3,801,600 | \$88,392 | \$0 | \$58,928 |
| | \$6,047,187 | \$149,801,600 | \$88,392 | \$4,271,504 | \$1,687,291 |
| OCSD - CORF - Solids Lease | | | | | |
| 10500 OCSD EQUITY LONG TERM CAPITAL PROGRAM 2018 TO 2050 | \$3,231,625 | \$16,742,000 | \$0 | \$2,598,227 | \$633,399 |
| 10502 OCSD CORF LONG TERM CAPITAL PROGRAM 2018 TO 2050 | \$10,230,125 | \$210,379,000 | \$7,437,301 | \$2,281,318 | \$511,506 |
| | \$13,461,750 | \$227,121,000 | \$7,437,301 | \$4,879,544 | \$1,144,905 |
| OCWD Annexation | | | | | |
| 10503 OCWD ANNEXATION LONG TERM CAPITAL PROGRAM 2018 TO | \$634,800 | \$22,861,400 | \$0 | \$517,362 | \$117,438 |
| | \$634,800 | \$22,861,400 | \$0 | \$517,362 | \$117,438 |
| Operational | | | | | |
| 01398 SANTIAGO CYN AREA PS IMPROVEMENTS | \$3,348,412 | \$6,613,000 | \$0 | \$3,348,412 | \$0 |
| 01813 SANTIAGO DAM OUTLET AND SPILLWAY | \$2,804,367 | \$139,307,000 | \$2,658,540 | \$114,979 | \$30,848 |
| 05406 NTS-EL MODENA MODS | \$6,480 | \$347,000 | \$6,480 | \$0 | \$0 |

| FY Exp Category | FY 22-23 Direct | Total Direct | FY Replacement | FY Developed | FY Developing |
|---|--------------------|-----------------|----------------|--------------|---------------|
| 06160 OPERATIONS CENTER FACILITY REFRESH-DW | \$186,591 | \$370,000 | \$186,591 | \$0 | \$0 |
| 06161 OPERATIONS CENTER FACILITY REFRESH-SS | \$368,045 | \$740,000 | \$368,045 | \$0 | \$0 |
| 06214 PDF SODIUM HYPOCHLORITE STORAGE AND FEED SYSTEM | \$1,460,229 | \$8,026,900 | \$312,489 | \$936,007 | \$211,733 |
| 07881 CNG AND DIESEL/GASOLINE FILLING STATION-DW | \$840,517 | \$2,630,000 | \$195,840 | \$525,323 | \$119,353 |
| 07882 CNG AND DIESEL/GASOLINE FILLING STATION-SS | \$1,680,034 | \$5,257,000 | \$391,448 | \$982,820 | \$305,766 |
| 10101 SANTIAGO CANYON FLEMING STORAGE AND PUMP STATION I | \$2,910,788 | \$9,001,000 | \$305,633 | \$2,605,155 | \$0 |
| 10379 SAN JOAQUIN RESERVOIR FILTRATION FACILITY | \$219,539 | \$3,654,000 | \$0 | \$158,946 | \$60,593 |
| 11123 LAKE FOREST WOODS SEWER ACCESS IMPROVEMENTS | \$146,691 | \$353,000 | \$146,691 | \$0 | \$0 |
| 11154 RADIO TOWER IMP-DW | \$32,667 | \$228,000 | \$32,667 | \$0 | \$0 |
| 11156 RADIO TOWER IMP-SS | \$33,667 | \$236,000 | \$33,667 | \$0 | \$0 |
| 11157 RADIO TOWER IMP-RW | \$33,667 | \$236,000 | \$33,667 | \$0 | \$0 |
| 11170 RATTLESNAKE RESERVOIR FILTRATION | \$3,571 | \$3,055,000 | \$0 | \$2,586 | \$986 |
| 11171 WELL ET-1 PFAS TREATMENT | \$1,738,474 | \$5,167,450 | \$0 | \$1,258,655 | \$479,819 |
| 11192 GENERAL SECURITY SYSTEM MODIFICATIONS - SS | \$40,541 | \$125,000 | \$0 | \$33,122 | \$7,419 |
| 11193 SAFETY- DISTRICT-WIDE FALL PROTECTION ASSESSMENT-DW | \$3,948 | \$142,000 | \$0 | \$3,218 | \$730 |
| 11195 SAFETY- DISTRICT-WIDE FALL PROTECTION ASSESSMENT-SS | \$3,948 | \$142,000 | \$0 | \$3,174 | \$774 |
| 11536 EMERGENCY GENERATOR FUEL STORAGE - DW | \$485,414 | \$819,000 | \$0 | \$395,612 | \$89,802 |
| 11537 EMERGENCY GENERATOR FUEL STORAGE - SS | \$278,263 | \$522,000 | \$0 | \$223,723 | \$54,539 |
| 11586 AUTOMATION CYBERSECURITY - DW | \$449,750 | \$1,350,000 | \$0 | \$366,546 | \$83,204 |
| 11602 GENERAL SECURITY SYSTEM MODIFICATIONS - DW | \$40,541 | \$125,000 | \$0 | \$33,041 | \$7,500 |
| 11720 WELL OPA 1 PFAS TREATMENT | \$28,042 | \$363,000 | \$0 | \$22,854 | \$5,188 |
| 11828 WELLS 51/52 EQUIPPING | \$286 | \$4,437,000 | \$0 | \$233 | \$53 |
| 11829 WELLS 51/52 PIPELINES TO DRWF | \$2,143 | \$10,874,000 | \$0 | \$1,746 | \$396 |
| 11834 SGU PFAS TREATMENT | \$1,818 | \$5,137,950 | \$0 | \$1,316 | \$502 |
| 11840 TURTLE ROCK ZONE 3 RESERVOIR CHLORAMINE BOOSTER STA | \$1,140,000 | \$1,705,000 | \$0 | \$929,100 | \$210,900 |
| 11854 PURCHASING WAREHOUSE-DW | \$364,531 | \$797,000 | \$0 | \$297,092 | \$67,438 |
| 11855 PURCHASING WAREHOUSE-SS | \$364,530 | \$797,000 | \$0 | \$293,082 | \$71,448 |

| FY Exp Category | FY 22-23 Direct | Total Direct | FY Replacement | FY Developed | FY Developing |
|---|---------------------|----------------------|--------------------|---------------------|--------------------|
| | \$19,017,493 | \$212,557,300 | \$4,671,758 | \$12,536,744 | \$1,808,991 |
| Planning | | | | | |
| 07895 NTS MASTER PLAN UPDATE | \$20,773 | \$400,000 | \$20,773 | \$0 | \$0 |
| 11686 ASSET MANAGEMENT CAPITAL IMPROVEMENT PLAN DW | \$182 | \$225,500 | \$182 | \$0 | \$0 |
| 11687 ASSET MANAGEMENT CAPITAL IMPROVEMENT PLAN RW | \$182 | \$225,500 | \$182 | \$0 | \$0 |
| 11688 ASSET MANAGEMENT CAPITAL IMPROVEMENT PLAN SS | \$182 | \$225,500 | \$182 | \$0 | \$0 |
| 11781 CAPITAL PLANNING SUPPORT DW 21/22-22/23 | \$675,900 | \$1,351,800 | \$0 | \$550,859 | \$125,042 |
| 11783 CAPITAL PLANNING SUPPORT RW 21/22-22/23 | \$675,900 | \$1,351,800 | \$0 | \$489,352 | \$186,548 |
| 11785 CAPITAL PLANNING SUPPORT SS 21/22-22/23 | \$675,900 | \$1,351,800 | \$0 | \$543,424 | \$132,476 |
| 11791 NON-POTABLE WATER STUDIES 21/22-22/23 | \$50,000 | \$100,000 | \$0 | \$36,200 | \$13,800 |
| | \$2,099,019 | \$5,231,900 | \$21,319 | \$1,619,834 | \$457,866 |
| Property Management | | | | | |
| 11869 SAND CANYON PROFESSIONAL CENTER - GENERAL OFFICE (155 | \$28,125 | \$5,350,000 | \$28,125 | \$0 | \$0 |
| | \$28,125 | \$5,350,000 | \$28,125 | \$0 | \$0 |
| Replacement - Facilities | | | | | |
| 01414 CP IMP-SAND CYN 16" DW ANODE REPLACE | \$3,024 | \$278,100 | \$3,024 | \$0 | \$0 |
| 03750 SOCWA ETM PROTECTION-TRAIL BRIDGE CROSSING (PC 21) | \$3,226 | \$1,215,000 | \$3,226 | \$0 | \$0 |
| 03780 SAN JOAQUIN RESERVOIR LINER REPLACEMENT | \$3,158 | \$2,880,400 | \$3,158 | \$0 | \$0 |
| 05476 ZONE A TO RATTLESNAKE RESERVOIR PUMP STATION | \$6,462,953 | \$22,008,000 | \$6,462,953 | \$0 | \$0 |
| 06159 CP IMP-CANADA RD JOINT BONDING | \$4,400 | \$280,000 | \$4,400 | \$0 | \$0 |
| 06162 CP IMP-CRYSTAL COVE RECT-DW | \$2,600 | \$170,000 | \$2,600 | \$0 | \$0 |
| 06163 CP IMP-CRYSTAL COVE RECT-RW | \$2,200 | \$157,500 | \$2,200 | \$0 | \$0 |
| 06164 CP IMP-CULVER CP5 RECT AND ANODE BED REPLACEMENT | \$4,440 | \$291,000 | \$4,440 | \$0 | \$0 |
| 06169 CP IMP-ZN 8-9 PIPELINE ANODE BED LEAD WIRE REPLACEMEN | \$6,667 | \$385,000 | \$6,667 | \$0 | \$0 |
| 07892 MWRP TERTIARY FILTER REHABILITATION | \$7,344,445 | \$9,875,600 | \$7,344,445 | \$0 | \$0 |
| 07898 PLC REPLACEMENT-DW | \$83,834 | \$670,000 | \$83,834 | \$0 | \$0 |

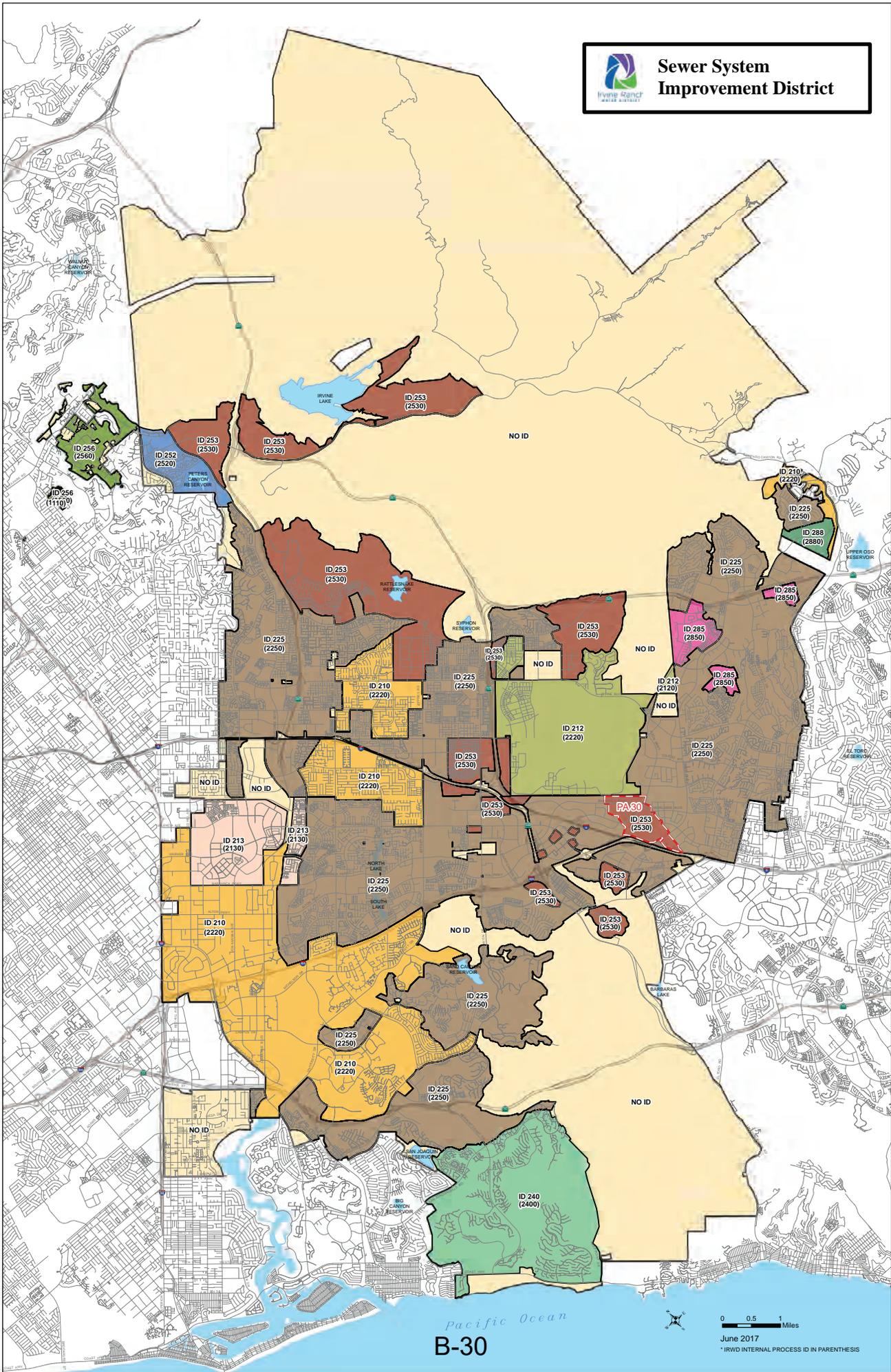
| FY Exp Category | FY 22-23 Direct | Total Direct | FY Replacement | FY Developed | FY Developing |
|---|---------------------|---------------------|---------------------|----------------|---------------|
| 07899 PLC REPLACEMENT-RW | \$26,333 | \$210,000 | \$26,333 | \$0 | \$0 |
| 10580 SUNNYHILL RW PIPE REHAB | \$4,657 | \$423,000 | \$4,657 | \$0 | \$0 |
| 11118 VALVE REPLACE-DW | \$5,599 | \$384,200 | \$5,599 | \$0 | \$0 |
| 11120 VALVE REPLACE-RW | \$5,519 | \$384,200 | \$5,519 | \$0 | \$0 |
| 11139 VAULT LID REPLACEMENT-PH2 DW | \$7,956 | \$453,200 | \$7,956 | \$0 | \$0 |
| 11142 NTS-WOODBRIDGE NTS RELOCATION | \$57,600 | \$120,000 | \$57,600 | \$0 | \$0 |
| 11145 VAULT LID REPLACEMENT-PH2 RW | \$3,652 | \$259,000 | \$3,652 | \$0 | \$0 |
| 11147 VAULT LID REPLACEMENT-PH2 SS | \$3,652 | \$259,000 | \$3,652 | \$0 | \$0 |
| 11174 PLC REPLACEMENT-SS | \$24,242 | \$220,000 | \$24,242 | \$0 | \$0 |
| 11189 SOCWA ETM AVAC VALVE REPLACEMENT REACHES D AND E (P | \$213,191 | \$1,000,000 | \$213,191 | \$0 | \$0 |
| 11218 LAKE FOREST WELL NO. 2 TREATMENT & BYPASS SEWER CONN | \$4,558 | \$676,000 | \$0 | \$3,715 | \$843 |
| 11566 RATTLESNAKE INLET-OUTLET REPLACEMENT | \$18,185 | \$1,213,000 | \$18,185 | \$0 | \$0 |
| 11568 COASTAL ZNS B&D BPS ELECTRICAL REPLACEMENT | \$369,268 | \$1,737,000 | \$369,268 | \$0 | \$0 |
| 11569 MWRP CAS ELECTRICAL CONDUITS REPLACEMENT | \$12,929 | \$654,000 | \$12,929 | \$0 | \$0 |
| 11570 DRWF WELLSITE REHAB | \$127,273 | \$1,588,000 | \$127,273 | \$0 | \$0 |
| 11571 WOODBRIDGE RW PIPELINE REPLACEMENT (ACP) | \$1,253,429 | \$11,018,000 | \$1,253,429 | \$0 | \$0 |
| 11585 PUBLIC OUTREACH CAMPAIGN REPLACEMENTS | \$48,600 | \$500,000 | \$48,600 | \$0 | \$0 |
| 11588 SILVERADO CANYON RD BRIDGE 174 AT SILVERADO COMMUNI | \$351,843 | \$504,900 | \$351,843 | \$0 | \$0 |
| 11589 SILVERADO CANYON RD BRIDGE 177 AT READ RESERVOIR DW I | \$25,963 | \$564,900 | \$25,963 | \$0 | \$0 |
| 11593 MODJESKA RD BRIDGE 172 AT MARKUSON RD DW IMPROVEM | \$25,963 | \$564,900 | \$25,963 | \$0 | \$0 |
| 11841 SEWER SIPHON REHABILITATION PHASE 2 | \$136,111 | \$9,725,000 | \$136,111 | \$0 | \$0 |
| 11842 ETM REACH A REHABILITATION | \$3,571 | \$15,035,800 | \$3,571 | \$0 | \$0 |
| 11881 SECONDARY CIRCLE CLARIFIER IMPROVEMENTS | \$20,000 | \$460,000 | \$20,000 | \$0 | \$0 |
| 11899 MWRP PAVING | \$4,496 | \$243,000 | \$4,496 | \$0 | \$0 |
| 11906 SOCWA ETM REACH B/C REPLACEMENT | \$150,000 | \$3,800,000 | \$150,000 | \$0 | \$0 |
| 11912 COASTAL ZONE 1-2 PS AND ZONE 2-4 PS REHABILITATION | \$1,134,131 | \$1,392,000 | \$1,134,131 | \$0 | \$0 |
| | \$17,959,668 | \$91,599,700 | \$17,955,110 | \$3,715 | \$843 |

| FY Exp Category | FY 22-23 Direct | Total Direct | FY Replacement | FY Developed | FY Developing |
|---|---------------------|----------------------|---------------------|---------------------|--------------------|
| Replacement - FY System | | | | | |
| 11082 LAWRP SYSTEM REPLACEMENTS 22/23 | \$138,000 | \$138,000 | \$138,000 | \$0 | \$0 |
| 11773 GENERAL SYSTEM REPLACEMENTS AND MODIFICATIONS DW 2 | \$6,283,000 | \$6,283,000 | \$6,283,000 | \$0 | \$0 |
| 11776 GENERAL SYSTEM REPLACEMENTS AND MODIFICATIONS RW 2 | \$2,103,000 | \$2,103,000 | \$2,103,000 | \$0 | \$0 |
| 11779 GENERAL SYSTEM REPLACEMENTS AND MODIFICATIONS SS 22 | \$1,785,000 | \$1,785,000 | \$1,785,000 | \$0 | \$0 |
| | \$10,309,000 | \$10,309,000 | \$10,309,000 | \$0 | \$0 |
| Sewage Treatment | | | | | |
| 01477 LAWRP TREATMENT PROCESS MODERNIZATION | \$5,249,000 | \$202,434,250 | \$5,249,000 | \$0 | \$0 |
| 01659 MWRP EXPANSION PHASE 3 (MBR)-RW | \$13,908 | \$21,258,000 | \$0 | \$10,070 | \$3,839 |
| 01797 MWRP EXPANSION PHASE 3 (MBR)-SS | \$27,415 | \$43,680,000 | \$0 | \$22,041 | \$5,373 |
| 11832 MWRP TRIBUTARY GRAVITY DIVERSION TO LAWRP | \$11,026 | \$2,942,000 | \$0 | \$8,865 | \$2,161 |
| 11833 MWRP EXPANSION PHASE 3 (CAS) IMPROVEMENTS | \$769 | \$17,867,000 | \$0 | \$618 | \$151 |
| 11878 LAWRP DIVERSION TO MWRP DURING CONSTRUCTION | \$140,577 | \$11,671,000 | \$0 | \$113,024 | \$27,553 |
| | \$5,442,696 | \$299,852,250 | \$5,249,000 | \$154,619 | \$39,077 |
| Solids Handling | | | | | |
| 11879 MWRP SLUDGE RECEIVING STATION FACILITY | \$8,571 | \$1,581,000 | \$0 | \$6,891 | \$1,680 |
| | \$8,571 | \$1,581,000 | \$0 | \$6,891 | \$1,680 |
| Water Banking | | | | | |
| 10854 KERN FAN GROUNDWATER STORAGE | \$25,052,600 | \$115,410,500 | \$0 | \$20,417,869 | \$4,634,731 |
| | \$25,052,600 | \$115,410,500 | \$0 | \$20,417,869 | \$4,634,731 |
| Water Resources | | | | | |
| 11188 RW CONVERSION IMPROVEMENTS FOR OFF-SITE 22/23 | \$444,000 | \$444,000 | \$444,000 | \$0 | \$0 |
| 11747 DELTA CONVEYANCE PROJECT PLANNING AND ENVIRONMENT | \$85,302 | \$263,000 | \$0 | \$69,521 | \$15,781 |
| 11799 WATER STUDIES 21/22-22/23 | \$735,000 | \$1,470,000 | \$0 | \$599,025 | \$135,975 |
| | \$1,264,302 | \$2,177,000 | \$444,000 | \$668,546 | \$151,756 |
| Well Rehabilitation | | | | | |

| FY Exp Category | FY 22-23 Direct | Total Direct | FY Replacement | FY Developed | FY Developing |
|--|----------------------|------------------------|---------------------|---------------------|---------------------|
| 07087 WELL REHAB-DRWF 10 | \$617,450 | \$810,000 | \$617,450 | \$0 | \$0 |
| 11065 WELL MAINTENANCE AND REHABILITATION 22/23-DW | \$360,000 | \$360,000 | \$360,000 | \$0 | \$0 |
| 11128 WELL MAINTENANCE AND REHABILITATION 22/23-RW | \$90,000 | \$90,000 | \$90,000 | \$0 | \$0 |
| 11137 WELL REHAB-IDP 76 | \$723,455 | \$814,000 | \$723,455 | \$0 | \$0 |
| 11827 WELL REHAB-WELL 51 | \$20,190 | \$900,000 | \$20,190 | \$0 | \$0 |
| 11846 WELL REHAB-DRWF 15 | \$396,897 | \$902,000 | \$396,897 | \$0 | \$0 |
| | \$2,207,992 | \$3,876,000 | \$2,207,992 | \$0 | \$0 |
| | \$107,465,003 | \$1,168,238,250 | \$50,162,941 | \$46,057,531 | \$11,244,531 |



Sewer System Improvement District



B-30

0 0.5 1 Miles

June 2017

* IRWD INTERNAL PROCESS ID IN PARENTHESIS

Exhibit "C"

RESOLUTION NO. 2021 – XX

RESOLUTION OF THE BOARD OF DIRECTORS OF IRVINE
RANCH WATER DISTRICT, APPROVING A CAPITAL BUDGET
FOR FISCAL YEARS 2021-22 AND 2022-23

WHEREAS, the Board of Directors of the Irvine Ranch Water District (IRWD) has considered the capital project needs of IRWD for Fiscal Years 2021-22 and 2022-23; and

WHEREAS, a Capital Budget, which includes both the capital expenditures projected for Fiscal Year 2021-22 and 2022-23 and entire project budgets for the listed projects, as set forth in the attached Exhibit “A” has been prepared and reviewed by this Board of Directors; and

WHEREAS, 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.

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

Section 1. The revenues which 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 2021-22 and 2022-23 fiscal years, to be expended for qualified capital outlay projects.

Section 3. That IRWD’s Capital Budget for Fiscal Years 2021-22 and 2022-23, shown in the attached Exhibit “A” and by this reference incorporated herein, be and the same is hereby approved.

Section 4. That 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 Authorizations of Expenditures.

ADOPTED, SIGNED and APPROVED this 26th day of April 2021.

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

Assistant Secretary, IRVINE RANCH WATER DISTRICT
And of the Board of Directors thereof

APPROVED AS TO FORM:
Hanson Bridgett, LLP

by _____
District Counsel

April 26, 2021
Prepared and
submitted by: L. Bonkowski
Approved by: Paul A. Cook



CONSENT CALENDAR

BOARD MEETING MINUTES

SUMMARY:

Provided are the minutes of the April 12, 2021 Regular Board meeting for approval.

FISCAL IMPACTS:

None.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

Not applicable.

RECOMMENDATION:

THAT THE MINUTES OF THE APRIL 12, 2021 REGULAR BOARD MEETING BE APPROVED AS PRESENTED.

LIST OF EXHIBITS:

Exhibit "A" – April 12, 2021 Minutes

Note: This page is intentionally left blank.

EXHIBIT "A"

MINUTES OF REGULAR MEETING – April 12, 2021

The regular meeting of the Board of Directors of the Irvine Ranch Water District (IRWD) was called to order at 5:00 p.m. by President Reinhart on April 12, 2021 via teleconference pursuant to the provisions of the Governor's Executive Orders N-25-20 and N-29-20 due to COVID-19. Members of the public did not attend this meeting in person.

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

Directors Absent: Withers.

Also Present: General Manager Cook, Executive Director of Technical Services Burton, Executive Director of Water Policy Weghorst, Executive Director of Finance and Administration Clary, Director of Treasury and Risk Management Jacobson, Manager of Strategic Planning and Analysis Christopher Smithson, Executive Director of Operations Chambers, Director of Water Quality and Regulatory Compliance Colston, Director of Recycling Operations Zepeda, Director of Information Services Malone, Director of Water Resources Sanchez, Director of Maintenance Mykitta, Director of Human Resources Mitcham, Government Relations Officer/Deputy General Counsel Compton, Secretary Bonkowski, General Counsel Collins, Consultant Newell, MWD Director Dennis Erdman, and members of staff and the public.

WRITTEN AND ORAL COMMUNICATIONS: None.

ITEMS RECEIVED TOO LATE TO BE AGENDIZED: None.

WORKSHOP

FISCAL YEARS 2021-22 AND 2022-23 OPERATING AND NON-OPERATING BUDGETS

The proposed Fiscal Year (FY) 2021-22 Operating Budget for IRWD is \$180.2 million, representing an increase of \$6.6 million, or 3.8%, when compared to the Operating Budget for FY 2020-21. The proposed FY 2022-23 Operating Budget for IRWD is \$187.7 million, representing an increase of \$7.6 million, or 4.2%, when compared to the proposed Operating Budget for FY 2021-22. The proposed FY 2021-22 Non-Operating Budget is \$76.7 million, representing a decrease of \$12.0 million when compared to the Non-Operating Budget for FY 2020-21. The proposed FY 2022-23 Non-Operating Budget is \$84.1 million, representing an increase of \$7.4 million when compared to the proposed Non-Operating Budget for FY 2021-22.

Using a PowerPoint presentation, Manager of Strategic Planning and Analysis Smithson 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, Mr. Smithson reviewed the projected water sales for potable and non-potable budgets. He reviewed the key drivers of the budgets including salaries and benefits, purchased water, repairs and maintenance, and electricity. He further reviewed the proposed general plant funding, revenues and expenses by system, non-operating net income key assumptions, and recommended next steps which include a second workshop on April 26, 2020. He said that in the fall of 2021, the Finance and Personnel Committee and the Board will consider possible rate changes to be effective after January 1, 2022.

Director Swan said that this item was reviewed by the Finance and Personnel Committee on three occasions, and the Committee recommended a deferral of rate increases until January 2022. General Manager Cook thanked staff for its efforts in preparing these budgets.

CONSENT CALENDAR

On **MOTION** by LaMar, seconded by Swan, and unanimously carried by a roll call vote (4-0-1 McLaughlin, Swan, LaMar and Reinhart voting aye, 0 noes, and 1 absent) **ITEMS 4 AND 5 WERE APPROVED AS FOLLOWS:**

4. BOARD MEETING MINUTES

Recommendation: That the minutes of the March 22, 2021 Regular Board meeting be approved as presented.

5. 2021 LEGISLATIVE AND REGULATORY UPDATE

Recommendation: That the Board adopt an “oppose” position on AB 602 (Grayson) and a “support” position on SB 427 (Eggman).

ACTION CALENDAR

FINAL INITIAL STUDY/MITIGATED NEGATIVE DECLARATION FOR LAKE FOREST ZONE B TO C PUMP STATION PROJECT

A Final Initial Study/Mitigated Negative Declaration (Final IS/MND) has been prepared for the proposed Lake Forest Zone B to C Pump Station Project for the purpose of the proposed project is to improve operational flexibility and water quality in IRWD’s recycled water system. The proposed project includes constructing a new pump station, developing a new intertie between the Upper Oso Reservoir and the Lake Forest Zone C system, and demolishing the existing Zone B to C Pump Station. The proposed intertie would provide the ability to isolate the Upper Oso Reservoir from IRWD’s recycled water distribution system.

On **MOTION** by LaMar, seconded by Swan, and unanimously carried by a roll call vote (4-0-1 McLaughlin, Swan, LaMar and Reinhart voting aye, 0 noes, and 1 absent), **THE BOARD FOUND ON THE BASIS OF THE WHOLE RECORD BEFORE IT (INCLUDING THE FINAL INITIAL STUDY/MITIGATED NEGATIVE DECLARATION AND THE COMMENTS RECEIVED) THAT THERE IS NO SUBSTANTIAL EVIDENCE THAT THE LAKE FOREST ZONE B TO C PUMP STATION PROJECT WILL HAVE A SIGNIFICANT EFFECT ON THE ENVIRONMENT AND THAT THE FINAL MITIGATED NEGATIVE DECLARATION REFLECTS IRWD'S INDEPENDENT JUDGMENT AND ANALYSIS, ADOPTED THE PROPOSED FINAL MITIGATED NEGATIVE DECLARATION FOR THE LAKE FOREST ZONE B TO C PUMP STATION PROJECT AND THE ASSOCIATED MITIGATION MONITORING AND REPORTING PROGRAM, APPROVED THE LAKE FOREST ZONE B TO C PUMP STATION PROJECT, AND AUTHORIZED STAFF TO POST AND FILE A NOTICE OF DETERMINATION.**

GENERAL MANGER'S REPORT

General Manager Cook reported that it was quiet on the COVID-19 front, and that staff is healthy and productive.

COMMUNITY UPDATES

Consultant Newell reported that all is going well in the canyons.

DIRECTORS' COMMENTS

Director Swan reported on his attendance at an IRP meeting at MWD, a Southern California Water Dialogue meeting, a Newport Chamber of Commerce meeting, an OCBC forecast meeting, a San Joaquin Wildlife Sanctuary Board meeting, a Sea and Sage Sanctuary event, an ACWA 2021 Washington, D.C. virtual conference and Federal Water Issues Webinar, a MWDOC Planning Committee meeting, a MWDOC Dialogue Steering Committee meeting, a MWDOC Board meeting, and a Groundwater Banking JPA Special Board meeting.

Director Mc Laughlin reported on her attendance at an ACWA 2021 Washington, D.C. virtual conference and Federal Water Issues Webinar, an OCWD webinar on salinity management, a meeting with Irvine's Vice Mayor Tammy Kim, and an IRWD Business Outreach virtual event.

Director LaMar welcomed newly-elected MWD Director Dennis Erdman to tonight's meeting. He further reported on his attendance at a WACO meeting, an IRWD Business Outreach virtual event, OCBC's virtual Sacramento Advocacy Summit, ACWA's Washington, D.C. virtual conference and other ACWA meetings.

Director Reinhart reported on his attendance at MWDOC and OCWD meetings, a South County Agencies Joint meeting with MWDOC and OCWD, an OCWD salinity management meeting, a SOCWA Board meeting, a Groundwater Banking JPA Special Board meeting, and an IRWD Business Outreach virtual event.

CLOSED SESSION

Legal Counsel Collins said the following Closed Session would be held:

CLOSED SESSION CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION – Pursuant to Government Code Section 54956.9(d)(1): *Kessner, et al. v. City of Santa Clara, IRWD, et al.*, Santa Clara County Superior Court Case No. 20CV364054.

OPEN SESSION

At 6:38 p.m. the meeting was reconvened with Directors Swan, LaMar, McLaughlin, and Reinhart present. President Reinhart said that there was no action to report.

ADJOURNMENT

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

APPROVED and SIGNED this 26th day of April 2021.

President, IRVINE RANCH WATER DISTRICT

Secretary IRVINE RANCH WATER DISTRICT

APPROVED AS TO FORM:

Claire Hervey Collins, General Counsel
Hanson Bridgett LLP

April 26, 2021
Prepared and
submitted by: K. Swan
Approved by: Paul A. Cook



CONSENT CALENDAR

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

SUMMARY:

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

Steven LaMar

April 29 Southern California Water Coalition presents: *Drought: Are We Ready?*
Virtual Panel

Karen McLaughlin

April 29 Southern California Water Coalition presents: *Drought: Are We Ready?*
Virtual Panel

John Withers

April 21 Orange County Water Association's Monthly Industry Insight Virtual
Meeting

April 29 Southern California Water Coalition presents: *Drought: Are We Ready?*
Virtual Panel

RECOMMENDATION:

THAT THE BOARD RATIFY/APPROVE THE MEETINGS AND EVENTS FOR STEVEN LAMAR, KAREN MCLAUGHLIN, AND JOHN WITHERS AS DESCRIBED HEREIN.

LIST OF EXHIBITS:

None.

Note: This page is intentionally left blank.

April 26, 2021

Prepared by: D. Pardee / C. Smithson

Submitted by: C. Clary

Approved by: Paul A. Cook 

CONSENT CALENDAR

IRWD STRATEGIC MEASURES

SUMMARY:

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

BACKGROUND:

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

FISCAL IMPACTS:

Not applicable.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

RECOMMENDATION:

RECEIVE AND FILE.

LIST OF EXHIBITS:

Exhibit “A” – Q3 2021 Strategic Measures

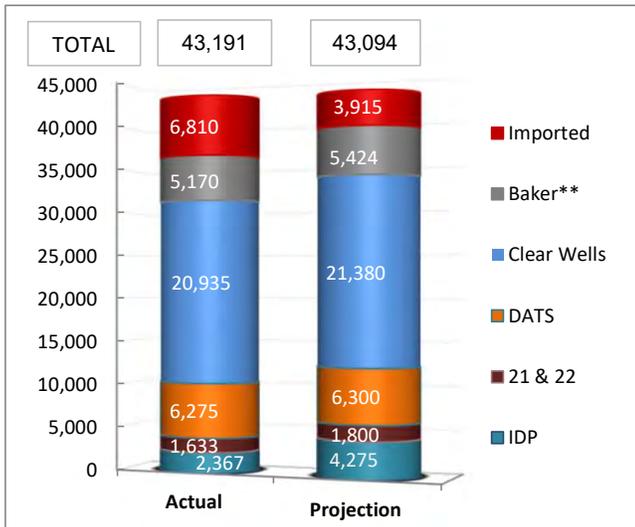
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IRVINE RANCH WATER DISTRICT

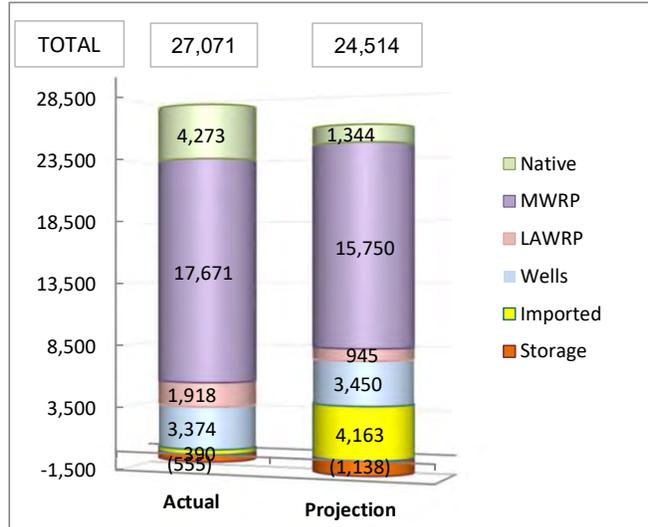
Operational Performance Measures

Data as of March 31, 2021

Potable Water Production FYTD
(AF)



Non-Potable Water Production FYTD
(AF)

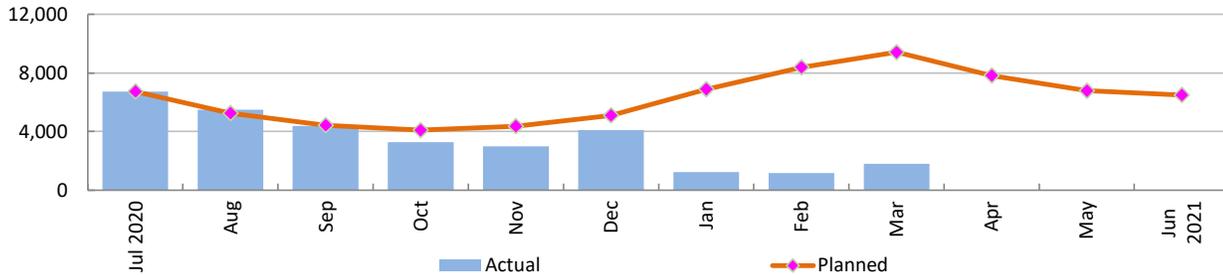


** Baker was supplied with 1,675 AF of native water. IRWD received 404 AF (24.1%) This is included in both potable and non potable production.

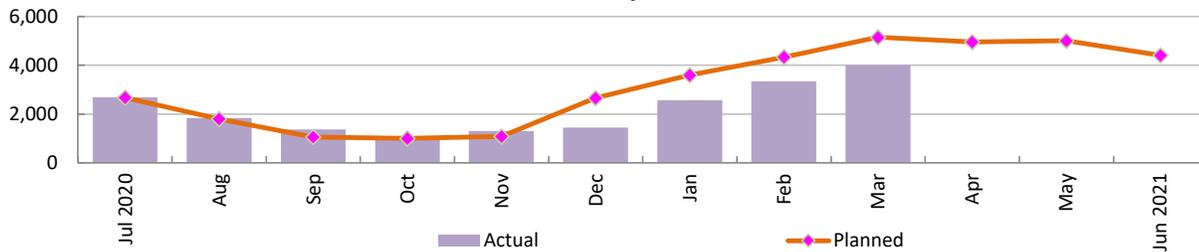
Non-Potable Reservoir Storage

(AF)

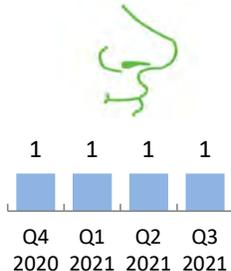
Irvine Lake



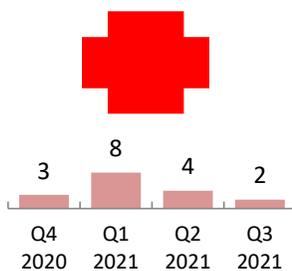
Recycled



Odor Complaints (FY by quarter)



OSHA Recordables Incidents



Regulatory Compliance Incidents

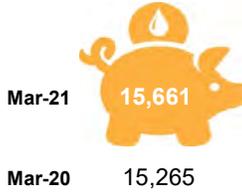
| Category | Q4 2020 | Q1 2021 | Q2 2021 | Q3 2021 |
|--------------|---------|---------|---------|---------|
| AQMD | 0 | 6 | 3 | 1 |
| Plants | 1 | 1 | 0 | 0 |
| Sewer Spills | 0 | 1 | 1 | 3 |

IRVINE RANCH WATER DISTRICT

Other Statistical Information

Data as of March 31, 2021

State Project (AF)



Banked Water

Non-State Project (AF)



Net YTD Water In/(Out) (AF)



*Calendar Year including extraordinary supply received.

Certificates of Occupancies FYTD

Apartment Condominium Single Family



| | Apartment | Condominium | Single Family |
|------------|-----------|-------------|---------------|
| FY 2020-21 | 432 | 952 | 269 |
| FY 2019-20 | 1504 | 1114 | 547 |

Total Potable Water

FYTD

Q2



| | AF | GPCD |
|--------------|--------|------|
| FY 2020-21 | 43,191 | 71 |
| Three Yr Avg | 41,954 | 66 |
| Change | 2.9% | 8% |

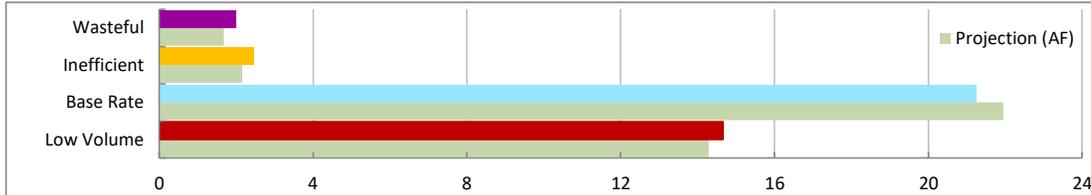
Acre-Feet Per Acre Irrigation



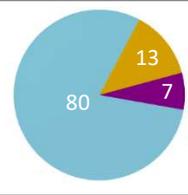
| | AF | ET Based Allocation |
|-----------------|------|---------------------|
| FY 2020-21 Q2 | 0.23 | 0.25 |
| Three Yr Avg Q2 | 0.22 | 0.25 |

Potable Sales by Tier FYTD

(in thousands)

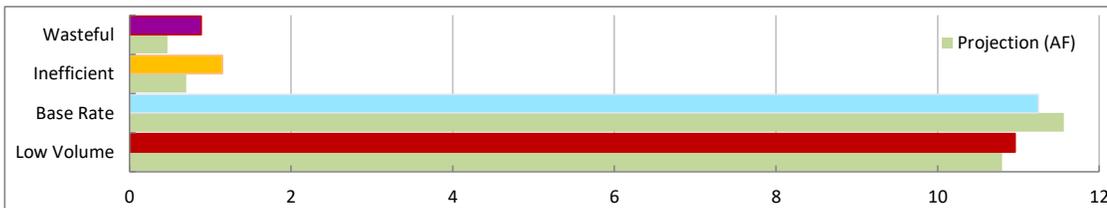


% of Customers by Tier

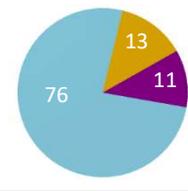


Non-Potable Sales by Tier FYTD

(in thousands)

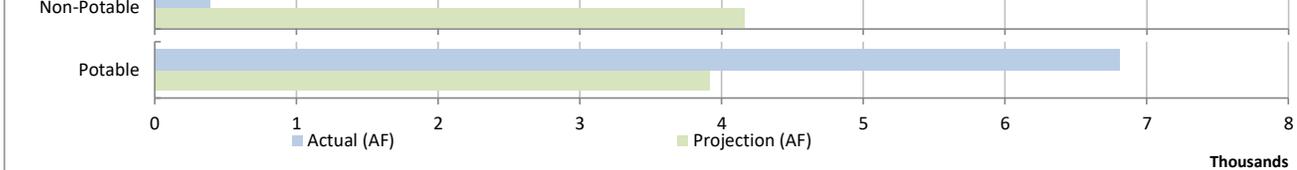


% of Customers by Tier



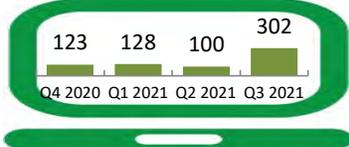
Imported Water Purchases FYTD

(in thousands)



Website Hits

(in thousands)



Customer Satisfaction Index**



** 12 month rolling average

April 26, 2021
Prepared by: J. Davis
Submitted by: R. Jacobson / C. Clary
Approved by: Paul A. Cook



CONSENT CALENDAR

MARCH 2021 TREASURY REPORT

SUMMARY:

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

- A. The March 2021 Investment Summary Report. This Investment Summary Report conforms with the 2021 Investment Policy and provides sufficient liquidity to meet estimated expenditures during the next six months, as outlined in Exhibit "A";
- B. The Summary of Fixed and Variable Rate Debt as of March 31, 2021, as outlined in Exhibit "B";
- C. The Monthly Interest Rate Swap Summary as of March 31, 2021, as outlined in Exhibit "C";
- D. The March 31, 2021 Disbursement Summary of warrants 416091 through 416896, wire transfers, Workers' Compensation distributions, payroll withholding distributions, and voided checks in the total amount of \$39,486,509, as outlined in Exhibit "D";
- E. The Summary of Payroll ACH payments in the total amount of \$2,116,670, as outlined in Exhibit "E"; and
- F. The Disclosure Report of Reimbursements to Board members and staff for March 2021, detailing payments or reimbursements for individual charges of \$100 or more per transaction, as outlined in Exhibit "F".

FISCAL IMPACTS:

As of March 31, 2021, the book value of the investment portfolio was \$388,926,860, with a 0.71% rate of return and a market value of \$390,162,699. Based on IRWD's March 31, 2021 quarterly real estate investment rate of return of 11.09%, the weighted average return for the fixed income and real estate investments was 2.80%.

As of March 31, 2021, the outstanding principal amount of fixed and variable rate debt was \$642,825,000. The monthly weighted average all-in variable rate was 0.36%. Including IRWD's weighted average fixed rate bond issues of 3.70% and the previous month's negative cash accruals from fixed payer interest rate swaps, which hedge a portion of the District's variable rate debt, the total average debt rate was 2.86%.

Payroll ACH payments totaled \$2,116,670, and wire transfers, all other ACH payments, and checks issued for debt service, accounts payable, payroll, and water purchases for March totaled \$39,486,509.

ENVIRONMENTAL COMPLIANCE:

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

COMMITTEE STATUS:

This item was not submitted to a Committee; the investment and debt reports are submitted to the Finance and Personnel Committee monthly.

RECOMMENDATION:

THAT THE BOARD RECEIVE AND FILE THE TREASURER'S INVESTMENT SUMMARY REPORT, THE SUMMARY OF FIXED AND VARIABLE RATE DEBT, AND DISCLOSURE REPORT OF REIMBURSEMENTS TO BOARD MEMBERS AND STAFF, APPROVE THE MARCH 2021 SUMMARY OF PAYROLL ACH PAYMENTS IN THE TOTAL AMOUNT OF \$2,116,670, AND APPROVE THE MARCH 2021 ACCOUNTS PAYABLE DISBURSEMENT SUMMARY OF WARRANTS 416091 THROUGH 416896, WORKERS' COMPENSATION DISTRIBUTIONS, WIRE TRANSFERS, PAYROLL WITHHOLDING DISTRIBUTIONS AND VOIDED CHECKS IN THE TOTAL AMOUNT OF \$39,486,509.

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

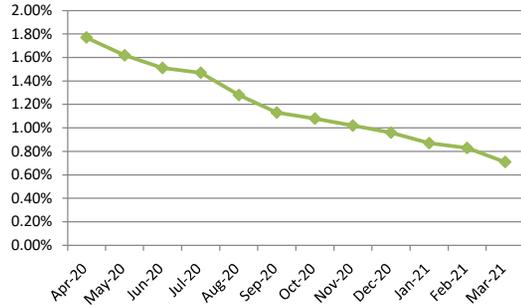
Exhibit "E" – Monthly Payroll ACH Summary

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

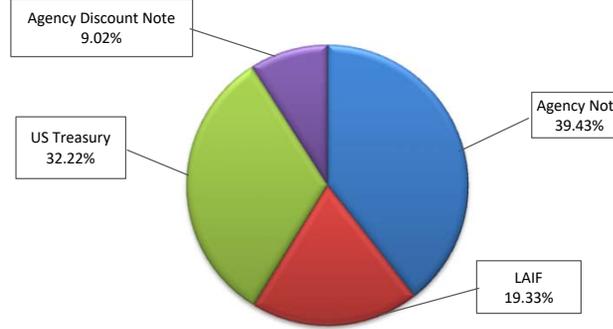
Exhibit "A"

Irvine Ranch Water District Investment Portfolio Summary March 2021

Monthly Fixed Income Yield



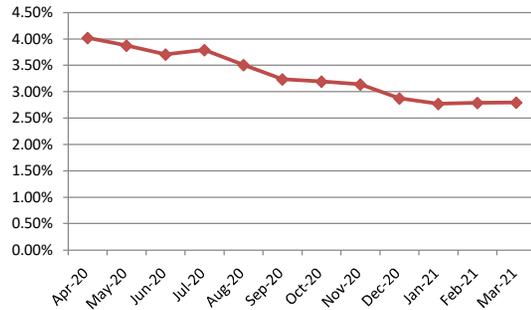
Portfolio Distribution



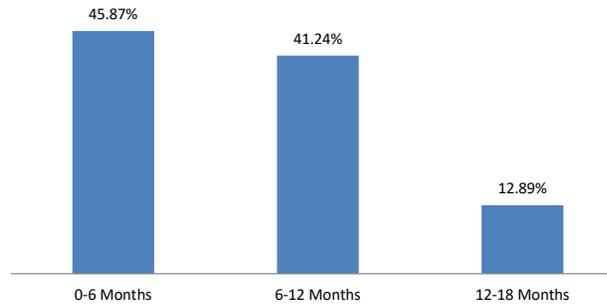
Investment Summary

| Type | PAR | Book Value | Market Value |
|----------------------|--------------------|--------------------|--------------------|
| Agency Note | 153,000,000 | 153,418,059 | 153,965,260 |
| US Treasury | 125,000,000 | 125,520,714 | 126,107,850 |
| LAIF | 75,000,000 | 75,000,000 | 75,095,239 |
| Agency Discount Note | 35,000,000 | 34,988,088 | 34,994,350 |
| Grand Total | 388,000,000 | 388,926,860 | 390,162,699 |

**Weighted Average Return
Including Real Estate Portfolio**



Maturity Distribution



Top Issuers

| Issuer | PAR | % Portfolio |
|-----------------------------|--------------------|----------------|
| US Treasury | 125,000,000 | 32.22% |
| Fed Farm Credit Bank | 75,000,000 | 19.33% |
| State of California Tsy. | 75,000,000 | 19.33% |
| Fed Home Loan Bank | 75,000,000 | 19.33% |
| Fed Home Loan Mortgage Corp | 20,000,000 | 5.15% |
| Fed Natl Mortgage Assoc | 18,000,000 | 4.64% |
| Grand Total | 388,000,000 | 100.00% |

IRVINE RANCH WATER DISTRICT
INVESTMENT SUMMARY REPORT

03/31/21

| SETTLMT | Call Schedule | Initial Call | Maturity Date | Rating | INVESTMENT TYPE | INSTITUTION / ISSUER | PAR Amount | COUPON DISCOUNT | YIELD | ORIGINAL COST | CARRY VALUE | MARKET VALUE ⁽¹⁾ 3/31/2021 | UNREALIZED ⁽²⁾ GAIN/(LOSS) |
|----------|------------------|--------------|---------------|-------------|----------------------|-----------------------------|--------------|-----------------|--------|-----------------|-----------------|--|--|
| 07/24/20 | | | 04/01/21 | | LAIF | State of California Tsy. | \$75,000,000 | | 0.370% | \$75,000,000.00 | \$75,000,000.00 | 75,095,238.98 | 95,238.97 |
| 02/28/20 | NA | NA | 04/13/21 | Aaa/AA+/AAA | FNMA - Note | Fed Natl Mortgage Assoc | 3,000,000 | 2.500% | 1.185% | 3,043,950.00 | 3,011,362.68 | 3,002,460.00 | (8,902.68) |
| 11/24/20 | NA | NA | 04/27/21 | NR | FHLB - Discount Note | Fed Home Loan Bank | 5,000,000 | 0.075% | 0.076% | 4,998,395.83 | 4,999,729.17 | 4,998,400.00 | (1,329.17) |
| 11/25/20 | NA | NA | 04/27/21 | NR | FHLB - Discount Note | Fed Home Loan Bank | 5,000,000 | 0.075% | 0.076% | 4,998,406.25 | 4,999,729.17 | 4,998,400.00 | (1,329.17) |
| 06/14/19 | NA | NA | 04/30/21 | Aaa/AA+/AAA | FNMA - Note | Fed Natl Mortgage Assoc | 5,000,000 | 1.750% | 1.913% | 4,985,000.00 | 4,999,365.89 | 5,006,700.00 | 7,334.11 |
| 12/05/19 | NA | NA | 04/30/21 | Aaa/NR/AAA | Treasury - Note | US Treasury | 5,000,000 | 2.250% | 1.650% | 5,041,406.25 | 5,002,345.28 | 5,008,750.00 | 6,404.72 |
| 09/13/19 | NA | NA | 05/15/21 | Aaa/NR/AAA | Treasury - Note | US Treasury | 5,000,000 | 2.625% | 1.757% | 5,071,093.75 | 5,005,128.07 | 5,015,500.00 | 10,371.93 |
| 11/18/20 | NA | NA | 05/27/21 | NR | FHLB - Discount Note | Fed Home Loan Bank | 5,000,000 | 0.080% | 0.081% | 4,997,888.89 | 4,999,377.78 | 4,999,900.00 | 522.22 |
| 03/02/20 | NA | NA | 05/31/21 | Aaa/NR/AAA | Treasury - Note | US Treasury | 10,000,000 | 2.125% | 1.186% | 10,115,711.10 | 10,038,400.83 | 10,033,900.00 | (4,500.83) |
| 06/11/20 | NA | NA | 06/09/21 | NR | FHLB - Discount Note | Fed Home Loan Bank | 5,000,000 | 0.190% | 0.193% | 4,990,420.85 | 4,998,179.17 | 4,999,800.00 | 1,620.83 |
| 09/18/19 | NA | NA | 06/11/21 | Aaa/AA+/NR | FHLB - Note | Fed Home Loan Bank | 5,000,000 | 2.250% | 1.786% | 5,039,300.00 | 5,004,415.03 | 5,021,250.00 | 16,834.97 |
| 01/16/20 | NA | NA | 06/30/21 | Aaa/NR/AAA | Treasury - Note | US Treasury | 5,000,000 | 1.125% | 1.594% | 4,966,406.25 | 4,994,306.14 | 5,013,100.00 | 18,793.86 |
| 12/31/20 | NA | NA | 07/01/21 | Aaa/NR/AAA | Treasury - Bill | US Treasury | 10,000,000 | 0.090% | 0.090% | 9,995,450.00 | 9,997,725.00 | 9,999,400.00 | 1,675.00 |
| 01/19/21 | NA | NA | 07/15/21 | Aaa/NR/AAA | Treasury - Bill | US Treasury | 5,000,000 | 0.075% | 0.076% | 4,998,156.25 | 4,998,906.25 | 4,999,800.00 | 893.75 |
| 07/26/19 | NA | NA | 07/19/21 | Aaa/AA+/AAA | FFCB - Note | Fed Farm Credit Bank | 5,000,000 | 1.875% | 1.927% | 4,995,000.00 | 4,999,247.24 | 5,027,150.00 | 27,902.76 |
| 08/13/20 | NA | NA | 08/12/21 | NR | FFCB - Discount Note | Fed Farm Credit Bank | 10,000,000 | 0.140% | 0.142% | 9,985,844.44 | 9,994,827.78 | 9,999,000.00 | 4,172.22 |
| 08/13/20 | NA | NA | 08/13/21 | Aaa/NR/NR | FHLB - Note | Fed Home Loan Bank | 10,000,000 | 0.125% | 0.133% | 9,999,220.00 | 9,999,713.64 | 9,998,900.00 | (813.64) |
| 08/01/19 | NA | NA | 08/31/21 | Aaa/NR/AAA | Treasury - Note | US Treasury | 5,000,000 | 1.125% | 1.816% | 4,929,687.50 | 4,985,955.98 | 5,022,250.00 | 36,294.02 |
| 03/10/21 | NA | NA | 09/09/21 | NR | Treasury - Bill | US Treasury | 10,000,000 | 0.045% | 0.046% | 9,997,712.50 | 9,997,987.50 | 9,998,900.00 | 912.50 |
| 09/17/20 | NA | NA | 09/17/21 | NA | FHLB - Note | Fed Home Loan Bank | 5,000,000 | 0.125% | 0.132% | 4,999,660.00 | 4,999,842.58 | 5,001,450.00 | 1,607.42 |
| 08/13/20 | NA | NA | 09/30/21 | Aaa/AA+/NR | Treasury - Note | US Treasury | 10,000,000 | 1.125% | 0.133% | 10,112,109.38 | 10,049,404.13 | 10,053,900.00 | 4,495.87 |
| 09/30/20 | NA | NA | 09/30/21 | NA | FHLB - Note | Fed Home Loan Bank | 10,000,000 | 0.125% | 0.122% | 10,000,336.80 | 10,000,167.94 | 10,003,000.00 | 2,832.06 |
| 08/13/20 | NA | NA | 10/07/21 | Aaa/AA+/AAA | FNMA - Note | Fed Natl Mortgage Assoc | 10,000,000 | 1.375% | 0.143% | 10,141,500.00 | 10,063,675.00 | 10,067,100.00 | 3,425.00 |
| 10/11/19 | NA | NA | 10/15/21 | Aaa/AA+/NR | Treasury - Note | US Treasury | 5,000,000 | 2.875% | 1.540% | 5,131,640.63 | 5,035,283.27 | 5,075,800.00 | 40,516.73 |
| 10/22/19 | NA | NA | 10/15/21 | Aaa/AA+/AAA | FFCB - Note | Fed Farm Credit Bank | 5,000,000 | 1.400% | 1.642% | 4,976,500.00 | 4,993,605.66 | 5,036,300.00 | 42,694.34 |
| 10/29/20 | NA | NA | 10/19/21 | Aaa/NR/NR | FHLB - Note | Fed Home Loan Bank | 10,000,000 | 0.125% | 0.127% | 9,999,800.00 | 9,999,886.76 | 10,003,300.00 | 3,413.24 |
| 10/27/20 | NA | NA | 10/26/21 | NR | FFCB - Discount Note | Fed Farm Credit Bank | 5,000,000 | 0.130% | 0.132% | 4,993,427.78 | 4,996,244.45 | 4,998,850.00 | 2,605.55 |
| 11/05/19 | NA | NA | 11/15/21 | Aaa/NR/AAA | Treasury - Note | US Treasury | 5,000,000 | 2.875% | 1.610% | 5,125,585.94 | 5,038,641.83 | 5,086,700.00 | 48,058.17 |
| 11/08/19 | NA | NA | 11/30/21 | Aaa/AA+/NR | Treasury - Note | US Treasury | 5,000,000 | 1.750% | 1.680% | 5,007,031.25 | 5,002,269.05 | 5,056,250.00 | 53,980.95 |
| 03/17/21 | NA | NA | 11/30/21 | Aaa/AA+/NR | Treasury - Note | US Treasury | 5,000,000 | 1.875% | 0.057% | 5,064,120.00 | 5,060,392.09 | 5,060,550.00 | 157.91 |
| 09/28/20 | NA | NA | 12/03/21 | Aaa/AA+/AAA | FFCB - Note | Fed Farm Credit Bank | 5,000,000 | 0.150% | 0.120% | 5,001,765.00 | 5,001,007.40 | 5,002,250.00 | 1,242.60 |
| 10/30/20 | NA | NA | 12/15/21 | Aaa/NR/AAA | Treasury - Note | US Treasury | 5,000,000 | 2.625% | 0.127% | 5,140,429.69 | 5,088,152.94 | 5,090,050.00 | 1,897.06 |
| 04/23/20 | NA | NA | 12/20/21 | Aaa/AA+/NR | FHLB - Note | Fed Home Loan Bank | 10,000,000 | 1.625% | 0.309% | 10,217,480.00 | 10,108,381.12 | 10,110,400.00 | 2,018.88 |
| 11/25/19 | NA | NA | 12/31/21 | Aaa/NR/AAA | Treasury - Note | US Treasury | 5,000,000 | 2.000% | 1.619% | 5,039,062.50 | 5,013,954.53 | 5,071,900.00 | 57,945.47 |
| 11/25/19 | NA | NA | 01/13/22 | Aaa/NA/NR | FHLMC - Note | Fed Home Loan Mortgage Corp | 5,000,000 | 2.375% | 1.635% | 5,077,250.00 | 5,028,424.04 | 5,089,950.00 | 61,525.96 |
| 08/14/20 | NA | NA | 01/13/22 | Aaa/AA+/AAA | FHLMC - Note | Fed Home Loan Mortgage Corp | 5,000,000 | 2.375% | 0.147% | 5,157,297.23 | 5,087,319.74 | 5,089,950.00 | 2,630.26 |
| 03/08/19 | NA | NA | 01/15/22 | Aaa/AA+/NR | Treasury - Note | US Treasury | 5,000,000 | 2.500% | 2.460% | 5,005,468.75 | 5,001,513.86 | 5,095,500.00 | 93,986.14 |
| 10/21/20 | Continuous after | 04/21/21 | 01/21/22 | Aaa/AA+/NR | FFCB - Note | Fed Farm Credit Bank | 5,000,000 | 0.150% | 0.150% | 5,000,000.00 | 5,000,000.00 | 5,000,250.00 | 250.00 |
| 12/19/19 | NA | NA | 01/31/22 | Aaa/NR/AAA | Treasury - Note | US Treasury | 5,000,000 | 1.875% | 1.641% | 5,024,218.75 | 5,009,543.56 | 5,075,000.00 | 65,456.44 |
| 03/21/19 | NA | NA | 02/03/22 | Aaa/AA+/AAA | FFCB - Note | Fed Farm Credit Bank | 5,000,000 | 2.030% | 2.361% | 4,954,350.00 | 4,986,609.33 | 5,081,650.00 | 95,040.67 |
| 11/13/20 | Continuous after | 05/04/21 | 02/04/22 | Aaa/AA+/AAA | FFCB - Note | Fed Farm Credit Bank | 5,000,000 | 0.140% | 0.150% | 4,999,390.00 | 4,999,579.26 | 5,000,300.00 | 720.74 |
| 12/19/19 | NA | NA | 02/15/22 | Aaa/NR/AAA | Treasury - Note | US Treasury | 5,000,000 | 2.500% | 1.652% | 5,089,453.13 | 5,036,280.10 | 5,105,650.00 | 69,369.90 |
| 11/13/20 | NA | NA | 02/28/22 | Aaa/NR/AAA | Treasury - Note | US Treasury | 5,000,000 | 1.875% | 0.139% | 5,112,304.69 | 5,079,231.91 | 5,089,650.00 | 1,418.09 |
| 11/19/20 | NA | NA | 02/28/22 | Aaa/NR/AAA | Treasury - Note | US Treasury | 5,000,000 | 1.750% | 0.126% | 5,103,710.94 | 5,074,111.04 | 5,075,800.00 | 1,688.96 |
| 03/08/19 | NA | NA | 03/11/22 | Aaa/AA+/NR | FHLB - Note | Fed Home Loan Bank | 5,000,000 | 2.500% | 2.549% | 5,002,750.00 | 5,000,860.78 | 5,113,100.00 | 112,239.22 |
| 12/23/20 | NA | NA | 03/22/22 | Aaa/AA+/AAA | FFCB - Note | Fed Farm Credit Bank | 10,000,000 | 0.090% | 0.090% | 10,000,000.00 | 10,000,000.00 | 9,997,300.00 | (2,700.00) |
| 12/19/19 | NA | NA | 03/31/22 | Aaa/NR/AAA | Treasury - Note | US Treasury | 5,000,000 | 1.875% | 1.645% | 5,025,585.94 | 5,011,180.41 | 5,088,500.00 | 77,319.59 |
| 02/21/20 | NA | NA | 04/14/22 | Aaa/AA+/AAA | FFCB - Note | Fed Farm Credit Bank | 5,000,000 | 1.400% | 1.414% | 4,998,500.00 | 4,999,141.76 | 5,065,400.00 | 66,258.24 |
| 04/23/20 | NA | NA | 04/21/22 | Aaa/AA+/NR | FFCB - Note | Fed Farm Credit Bank | 10,000,000 | 1.580% | 0.320% | 10,250,200.00 | 10,135,066.76 | 10,152,300.00 | 17,233.24 |
| 05/28/20 | One Time | 05/26/21 | 05/26/22 | Aaa/NR/AAA | FHLMC - Note | Fed Home Loan Mortgage Corp | 5,000,000 | 0.270% | 0.270% | 5,000,000.00 | 5,000,000.00 | 5,000,150.00 | 150.00 |
| 01/15/20 | NA | NA | 07/15/22 | Aaa/AA+/NR | FFCB - Note | Fed Farm Credit Bank | 5,000,000 | 1.600% | 1.594% | 5,000,750.00 | 5,000,386.51 | 5,093,900.00 | 93,513.49 |
| 05/28/20 | One Time | 05/26/21 | 08/26/22 | Aaa/NR/AAA | FHLMC - Note | Fed Home Loan Mortgage Corp | 5,000,000 | 0.300% | 0.300% | 5,000,000.00 | 5,000,000.00 | 5,000,750.00 | 750.00 |

IRVINE RANCH WATER DISTRICT
INVESTMENT SUMMARY REPORT

03/31/21

| SETTLMT | Call Schedule | Initial Call | Maturity Date | Rating | INVESTMENT TYPE | INSTITUTION / ISSUER | PAR Amount | COUPON DISCOUNT | YIELD | ORIGINAL COST | CARRY VALUE | MARKET VALUE ⁽¹⁾ 3/31/2021 | UNREALIZED ⁽²⁾ GAIN/(LOSS) |
|--------------------------|---------------|--------------|---------------|--------|-----------------|----------------------|----------------------|-----------------|-------|-------------------------|-------------------------|--|--|
| TOTAL INVESTMENTS | | | | | | | <u>\$388,000,000</u> | | | <u>\$389,900,728.26</u> | <u>\$388,926,860.42</u> | <u>\$390,162,698.98</u> | <u>\$1,235,838.55</u> |
| | | | | | Petty Cash | | | | | 3,400.00 | | | |
| | | | | | Ck Balance | Bank of America | ECR | 0.19% | | 12,929,474.40 | | | |
| | | | | | | | | | | <u>\$402,833,602.66</u> | | | |

⁽¹⁾ LAIF market value is as of the most recent quarter-end as reported by LAIF.
Security market values are determined using Bank of New York ("Trading Prices"), Bloomberg and/or broker dealer pricing.

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

⁽⁶⁾ Real estate rate of return is based on most recent quarter end return

| | |
|--|---------------|
| Outstanding Variable Rate Debt | \$251,100,000 |
| Net Outstanding Variable Rate Debt (Less \$60 million fixed-payer swaps) | \$191,100,000 |
| Investment Balance: | \$402,833,603 |
| Investment to Variable Rate Debt Ratio: | 211% |
| Portfolio - Average Number of Days To Maturity | 172 |

| | Investment Portfolio | Real Estate ⁽³⁾ Portfolio | Weighted Avg. Return |
|-----------------|----------------------|--------------------------------------|----------------------|
| March | 0.71% | 11.09% | 2.80% |
| February | 0.83% | 10.96% | 2.79% |
| Change | -0.12% | | 0.01% |

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

*S - Step up

Irvine Ranch Water District
Summary of Real Estate - Income Producing Investments
3/31/2021

| | ACQUISITION DATE | PROPERTY TYPE | OWNERSHIP INTEREST | ORIGINAL COST | MARKET VALUE 6/30/2020 | ANNUALIZED RATE OF RETURN QUARTER ENDED 3/31/2021 |
|--|---------------------|------------------|-----------------------|----------------------|---------------------------|--|
| Sycamore Canyon | Dec-92 | Apartments | Fee Simple | \$ 43,550,810 | \$ 152,340,625 | 19.69% |
| Wood Canyon Villas | Jun-91 | Apartments | Limited Partner | \$ 6,000,000 | \$ 30,432,947 | 8.51% |
| ITC (230 Commerce) | Jul-03 | Office Building | Fee Simple | \$ 5,739,845 | \$ 11,964,600 | 11.05% |
| Waterworks Business Pk. | Nov-08 | Research & Dev. | Fee Simple | \$ 8,630,577 | \$ 9,363,600 | 6.61% |
| Sand Canyon Professional Center - Medical Office | Jul-12 | Medical Office | Fee Simple | \$ 8,648,594 | \$ 11,444,400 | 9.25% |
| Sand Canyon Professional Center - General Office | Sep-20 | Office Building | Fee Simple | \$ 25,985,968 | \$ 28,770,000 | -0.64% |
| Total - Income Properties | | | | \$ 98,555,794 | \$ 244,316,172 | 11.09% |

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

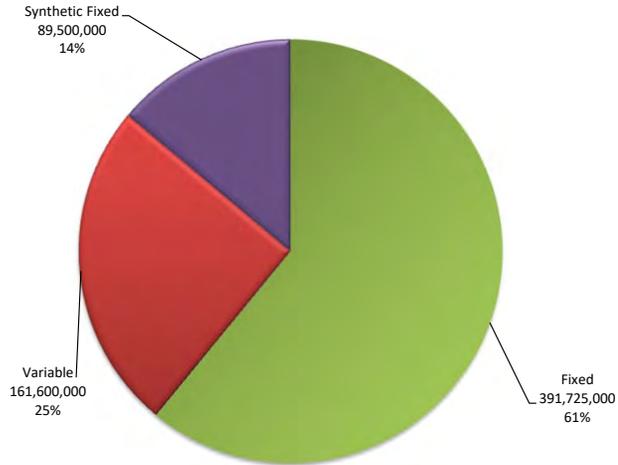
MATURITIES/SALES/CALLS

PURCHASES

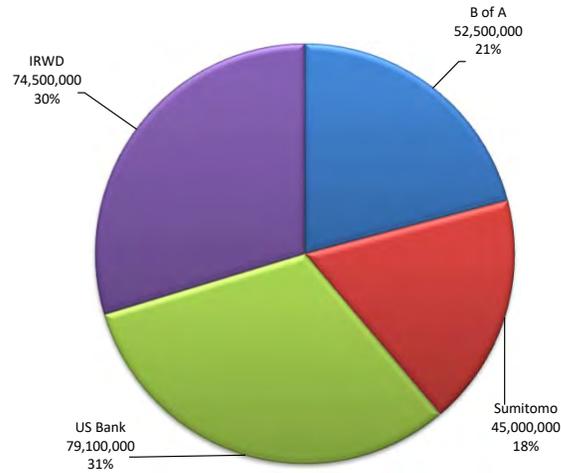
| DATE | SECURITY TYPE | PAR | YIELD | Settlement Date | Maturity Date | SECURITY TYPE | PAR | YIELD TO MATURITY |
|-----------|---------------|--------------|-------|-----------------|---------------|-----------------|--------------|-------------------|
| 3/12/2021 | FHLB - Note | \$10,000,000 | 2.52% | 3/10/2021 | 9/10/2021 | Treasury - Bill | \$10,000,000 | 0.05% |
| 3/12/2021 | FHLB - Note | \$5,000,000 | 2.55% | 3/17/2021 | 11/30/2021 | Treasury - Note | \$5,000,000 | 0.06% |
| 3/17/2021 | FFCB - Note | \$5,000,000 | 1.94% | | | | | |

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

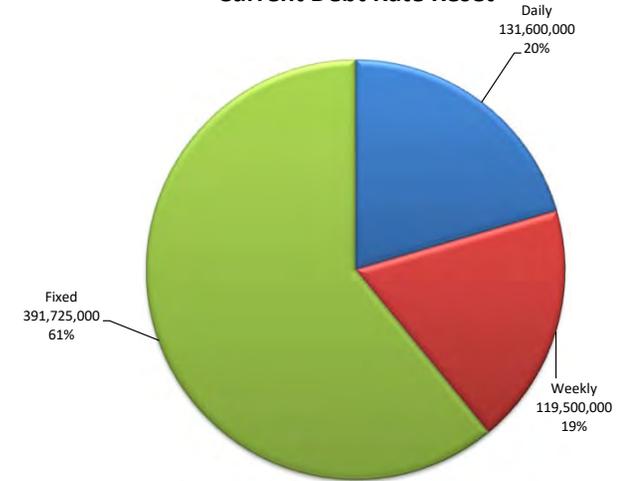
Current Debt Mix By Type



Letters of Credit / Support



Current Debt Rate Reset



Outstanding Par by Series

| Series | Issue Date | Maturity Date | Remaining Principal | Percent | Letter of Credit/Support | Rmkt Agent | Mode | Reset |
|---------------------------------|------------|---------------|----------------------|----------------|--------------------------|------------|----------|--------|
| Series 1993 | 05/19/93 | 04/01/33 | \$26,600,000 | 4.14% | US Bank | BAML | Variable | Daily |
| Series 2008-A Refunding | 04/24/08 | 07/01/35 | \$45,000,000 | 7.00% | Sumitomo | BAML | Variable | Weekly |
| Series 2011-A-1 Refunding | 04/15/11 | 10/01/37 | \$44,700,000 | 6.95% | IRWD | Goldman | Variable | Weekly |
| Series 2011-A-2 Refunding | 04/15/11 | 10/01/37 | \$29,800,000 | 4.64% | IRWD | Goldman | Variable | Weekly |
| Series 2009 - A | 06/04/09 | 10/01/41 | \$52,500,000 | 8.17% | US Bank | US Bank | Variable | Daily |
| Series 2009 - B | 06/04/09 | 10/01/41 | \$52,500,000 | 8.17% | B of A | Goldman | Variable | Daily |
| 2016 COPS | 09/01/16 | 03/01/46 | \$113,325,000 | 17.63% | N/A | N/A | Fixed | Fixed |
| 2010 Build America Taxable Bond | 12/16/10 | 05/01/40 | \$175,000,000 | 27.22% | N/A | N/A | Fixed | Fixed |
| Series 2016 | 10/12/16 | 02/01/46 | \$103,400,000 | 16.09% | N/A | N/A | Fixed | Fixed |
| Total | | | \$642,825,000 | 100.00% | | | | |

IRVINE RANCH WATER DISTRICT
SUMMARY OF FIXED & VARIABLE RATE DEBT

March-21

| |
|--------|
| ITN |
| Daily |
| Weekly |

| GENERAL BOND INFORMATION | | | | | | | LETTER OF CREDIT INFORMATION | | | | | | | | | | TRUSTEE INFORMATION | | | | | | | | | |
|-------------------------------------|------------|---------------|------------------------|--------------|----------------------|----------------------|--|------------------------------|---------------|------------|----------|---------|-------------------|---------|-----------------|------------|---------------------|------------------|-------------|------------|--|--|--|--|--|--|
| VARIABLE RATE ISSUES | Issue Date | Maturity Date | Principal Payment Date | Payment Date | Original Par Amount | Remaining Principal | Letter of Credit | Reimbursement Agreement Date | L/C Exp. Date | MOODY'S | S&P | FITCH | LOC Stated Amount | LOC Fee | Annual LOC Cost | Rmkt Agent | Reset | Rmkt Fees | Annual Cost | Trustee | | | | | | |
| SERIES 1993 | 05/19/93 | 04/01/33 | Apr 1 | 5th Bus. Day | \$38,300,000 | \$26,600,000 | US BANK | 05/07/15 | 12/15/21 | Aa3/VMIG1 | AA-/A-1+ | N/R | \$26,958,553 | 0.3300% | \$88,963 | BAML | DAILY | 0.10% | \$26,600 | BANK OF NY | | | | | | |
| SERIES 2008-A Refunding | 04/24/08 | 07/01/35 | Jul 1 | 5th Bus. Day | \$60,215,000 | \$45,000,000 | SUMITOMO | 04/01/11 | 06/21/21 | A1/P-1 | A/A-1 | A/F1 | \$45,665,753 | 0.3150% | \$143,847 | BAML | WED | 0.07% | \$31,500 | BANK OF NY | | | | | | |
| SERIES 2011-A-1 Refunding | 04/15/11 | 10/01/37 | Oct 1 | 1st Bus. Day | \$60,545,000 | \$44,700,000 | N/A | N/A | N/A | Aa1/VMIG1 | A-1+ | AAA/F1+ | N/A | N/A | N/A | Goldman | WED | 0.13% | \$55,875 | BANK OF NY | | | | | | |
| SERIES 2011-A-2 Refunding | 04/15/11 | 10/01/37 | Oct 1 | 1st Bus. Day | \$40,370,000 | \$29,800,000 | N/A | N/A | N/A | Aa1/VMIG1 | A-1+ | AAA/F1+ | N/A | N/A | N/A | Goldman | WED | 0.13% | \$37,250 | BANK OF NY | | | | | | |
| SERIES 2009 - A | 06/04/09 | 10/01/41 | Oct 1 | 1st Bus. Day | \$75,000,000 | \$52,500,000 | US BANK | 04/01/11 | 12/15/21 | Aa2/VMIG 1 | AA-/A-1+ | AA/F1+ | \$53,086,849 | 0.3300% | \$175,187 | US Bank | DAILY | 0.07% | \$36,750 | US BANK | | | | | | |
| SERIES 2009 - B | 06/04/09 | 10/01/41 | Oct 1 | 1st Bus. Day | \$75,000,000 | \$52,500,000 | B of A | 04/01/11 | 05/16/22 | Aa2/VMIG 1 | A/A-1 | A1/F1+ | \$53,086,849 | 0.3000% | \$159,261 | Goldman | DAILY | 0.10% | \$52,500 | US BANK | | | | | | |
| | | | | | \$349,430,000 | \$251,100,000 | SUB-TOTAL VARIABLE RATE DEBT | | | | | | | | | | | | | | | | | | | |
| | | | | | | | \$178,798,005 | | | | | | | | | | 0.3173% | \$567,258 | | | | | | | | |
| | | | | | | | (Wt. Avg) | | | | | | | | | | (Wt. Avg) | | | | | | | | | |
| | | | | | | | 0.10% | | | | | | | | | | \$240,475 | | | | | | | | | |
| | | | | | | | (Wt. Avg) | | | | | | | | | | (Wt. Avg) | | | | | | | | | |
| FIXED RATE ISSUES | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2010 GO Build America Taxable Bonds | 12/16/10 | 05/01/40 | May (2025) | May/Nov | \$175,000,000 | \$175,000,000 | N/A | N/A | N/A | Aa1 | AAA | NR | N/A | N/A | N/A | N/A | N/A | N/A | N/A | US BANK | | | | | | |
| 2016 COPS | 09/01/16 | 03/01/46 | Mar 1 | Mar/Sept | \$116,745,000 | \$113,325,000 | N/A | N/A | N/A | NR | AAA | AAA | N/A | N/A | N/A | N/A | N/A | N/A | N/A | US BANK | | | | | | |
| SERIES 2016 | 10/12/16 | 02/01/46 | Feb (2022) | Feb/Aug | \$103,400,000 | \$103,400,000 | N/A | N/A | N/A | NR | AAA | AAA | N/A | N/A | N/A | N/A | N/A | N/A | N/A | BANK OF NY | | | | | | |
| | | | | | \$395,145,000 | \$391,725,000 | SUB-TOTAL FIXED RATE DEBT | | | | | | | | | | | | | | | | | | | |
| | | | | | \$744,575,000 | \$642,825,000 | TOTAL- FIXED & VARIABLE RATE DEBT | | | | | | | | | | | | | | | | | | | |

| Remarketing Agents | | | GO VS COP's | | |
|--------------------|--------------------|-----|-------------|--------------------|-----|
| Goldman | 127,000,000 | 51% | GO: | 529,500,000 | 82% |
| BAML | 71,600,000 | 29% | COPS: | 113,325,000 | 18% |
| US Bank | 52,500,000 | 21% | Total | <u>642,825,000</u> | |
| | <u>251,100,000</u> | | | | |

| LOC Banks | | Breakdown Between Variable & Fixed Rate Mode | |
|-----------------|--------------------|--|-------------------------|
| SUMITOMO | 45,000,000 | Daily Issues | 131,600,000 20% |
| BANK OF AMERICA | 52,500,000 | Weekly Issues | 45,000,000 7% |
| US BANK | 79,100,000 | ITN Issues | 74,500,000 12% |
| | <u>176,600,000</u> | Sub-Total | <u>251,100,000</u> |
| | | Fixed Rate Issues | \$391,725,000 61% |
| | | Sub-Total - Fixed | <u>391,725,000</u> |
| | | TOTAL DEBT | |
| | | FIXED & VAR. | <u>642,825,000</u> 100% |

IRVINE RANCH WATER DISTRICT
SUMMARY OF DEBT RATES
Mar-21

| Rmkt Agent Mode | GOLDMAN DAILY | GOLDMAN WEEKLY | GOLDMAN WEEKLY | MERRILL LYNCH DAILY | MERRILL LYNCH WEEKLY | US BANK DAILY |
|--------------------|---------------|----------------|----------------|---------------------|----------------------|---------------|
| Bond Issue | 2009 - B | 2011 A-1 | 2011 A-2 | 1993 | 2008-A | 2009-A |
| Par Amount | 52,500,000 | 44,700,000 | 29,800,000 | 26,600,000 | 45,000,000 | 52,500,000 |
| Bank | BOFA | (SIFMA + 3) | (SIFMA + 3) | US BANK | Sumitomo | US BANK |
| Reset | | Wednesday | Wednesday | | Wednesday | |
| 3/1/2021 | 0.01% | 0.06% | 0.06% | 0.01% | 0.02% | 0.01% |
| 3/2/2021 | 0.01% | 0.06% | 0.06% | 0.01% | 0.02% | 0.01% |
| 3/3/2021 | 0.01% | 0.06% | 0.06% | 0.01% | 0.02% | 0.01% |
| 3/4/2021 | 0.01% | 0.06% | 0.06% | 0.02% | 0.03% | 0.01% |
| 3/5/2021 | 0.01% | 0.06% | 0.06% | 0.02% | 0.03% | 0.01% |
| 3/6/2021 | 0.01% | 0.06% | 0.06% | 0.02% | 0.03% | 0.01% |
| 3/7/2021 | 0.01% | 0.06% | 0.06% | 0.02% | 0.03% | 0.01% |
| 3/8/2021 | 0.01% | 0.06% | 0.06% | 0.02% | 0.03% | 0.01% |
| 3/9/2021 | 0.01% | 0.06% | 0.06% | 0.02% | 0.03% | 0.01% |
| 3/10/2021 | 0.01% | 0.06% | 0.06% | 0.02% | 0.03% | 0.01% |
| 3/11/2021 | 0.02% | 0.07% | 0.07% | 0.02% | 0.03% | 0.02% |
| 3/12/2021 | 0.02% | 0.07% | 0.07% | 0.03% | 0.03% | 0.02% |
| 3/13/2021 | 0.02% | 0.07% | 0.07% | 0.03% | 0.03% | 0.02% |
| 3/14/2021 | 0.02% | 0.07% | 0.07% | 0.03% | 0.03% | 0.02% |
| 3/15/2021 | 0.01% | 0.07% | 0.07% | 0.03% | 0.03% | 0.02% |
| 3/16/2021 | 0.01% | 0.07% | 0.07% | 0.03% | 0.03% | 0.02% |
| 3/17/2021 | 0.01% | 0.07% | 0.07% | 0.03% | 0.03% | 0.02% |
| 3/18/2021 | 0.01% | 0.07% | 0.07% | 0.03% | 0.03% | 0.02% |
| 3/19/2021 | 0.01% | 0.07% | 0.07% | 0.02% | 0.03% | 0.02% |
| 3/20/2021 | 0.01% | 0.07% | 0.07% | 0.02% | 0.03% | 0.02% |
| 3/21/2021 | 0.01% | 0.07% | 0.07% | 0.02% | 0.03% | 0.02% |
| 3/22/2021 | 0.01% | 0.07% | 0.07% | 0.02% | 0.03% | 0.02% |
| 3/23/2021 | 0.02% | 0.07% | 0.07% | 0.02% | 0.03% | 0.02% |
| 3/24/2021 | 0.02% | 0.07% | 0.07% | 0.02% | 0.03% | 0.02% |
| 3/25/2021 | 0.02% | 0.08% | 0.08% | 0.04% | 0.05% | 0.03% |
| 3/26/2021 | 0.03% | 0.08% | 0.08% | 0.05% | 0.05% | 0.04% |
| 3/27/2021 | 0.03% | 0.08% | 0.08% | 0.05% | 0.05% | 0.04% |
| 3/28/2021 | 0.03% | 0.08% | 0.08% | 0.05% | 0.05% | 0.04% |
| 3/29/2021 | 0.04% | 0.08% | 0.08% | 0.06% | 0.05% | 0.04% |
| 3/30/2021 | 0.04% | 0.08% | 0.08% | 0.06% | 0.05% | 0.04% |
| 3/31/2021 | 0.04% | 0.08% | 0.08% | 0.06% | 0.05% | 0.04% |
| Avg Interest Rates | 0.02% | 0.07% | 0.07% | 0.03% | 0.03% | 0.02% |
| Rmkt Fee | 0.10% | 0.13% | 0.13% | 0.10% | 0.07% | 0.07% |
| LOC Fee | 0.30% | | | 0.33% | 0.32% | 0.33% |
| All-In Rate | 0.42% | 0.19% | 0.19% | 0.46% | 0.42% | 0.42% |
| Par Amount | 97,200,000 | | 29,800,000 | 71,600,000 | | 52,500,000 |

| Interest Rate Mode | Percent of Total Variable Rate Debt | Par Outstanding | Weighted All-In Average Rate | Base Rate Average |
|---|-------------------------------------|-----------------------|------------------------------|-------------------|
| Daily | 52.41% | 131,600,000 | 0.43% | 0.02% |
| Weekly | 47.59% | 119,500,000 | 0.28% | 0.06% |
| Fixed | 100.00% | \$ 251,100,000 | 0.36% | 0.04% |
| COPS 2016 | 28.93% | 113,325,000 | 2.90% | |
| BABS 2010 | 44.67% | 175,000,000 | 4.44% | (1) |
| SERIES 2016 | 26.40% | 103,400,000 | 3.32% | |
| | 100.00% | \$ 391,725,000 | 3.70% | |
| All-In Debt Rate Including \$60 Million Notional Amount of Swaps | | | | 2.86% |

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

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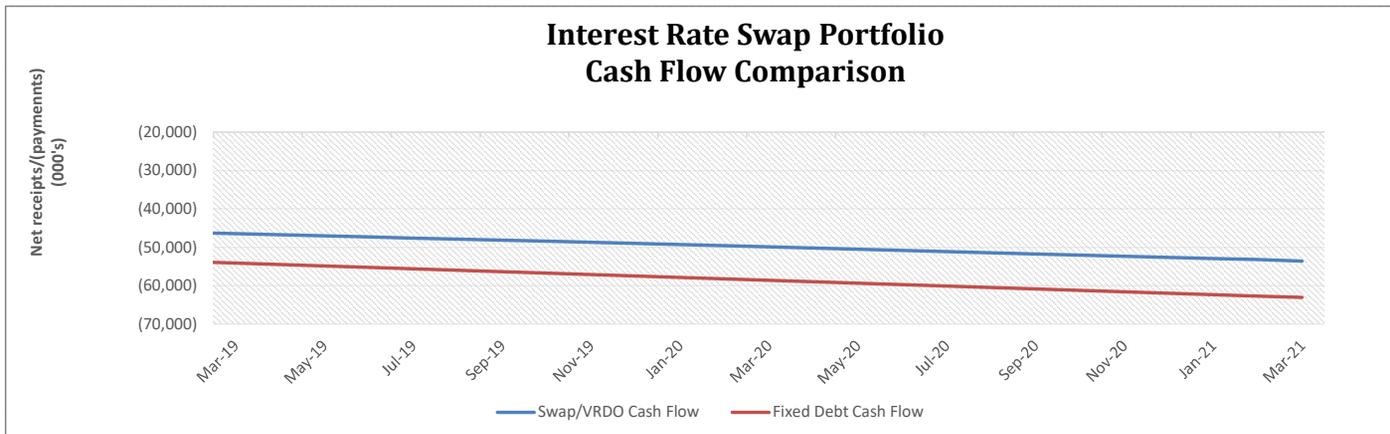
Exhibit "C"
Irvine Ranch Water District
Interest Rate Swap Summary
March 2021

| | Prior Mo. | Current Mo. | 12-Mo Avg |
|-------------|-----------|-------------|-----------|
| LIBOR Avg % | 0.11% | 0.11% | 0.19% |

| 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 | Cumulative Net Accrual | Current Mark to Market | Notional Difference |
| Fixed Payer Swaps - By Effective Date | | | | | | | | | | | | | |
| 3/10/2007 | 3/10/2029 | 7.9 | ML | 30,000,000 | FXP | LIBOR | 5.687% | (125,025) | (162,811) | (1,250,954) | (19,276,096) | 20,254,714 | (9,745,286) |
| 3/10/2007 | 3/10/2029 | 7.9 | CG | 30,000,000 | FXP | LIBOR | 5.687% | (125,025) | (162,811) | (1,250,954) | (19,276,096) | 20,235,776 | (9,764,224) |
| Totals/Weighted Avgs | | | | 7.9 | | \$ 60,000,000 | 5.687% | \$ (250,050) | \$ (325,622) | \$ (2,501,907) | \$ (38,552,192) | \$ 40,490,490 | \$ (19,509,510) |
| Total Current Year Active Swaps | | | | | | \$ 60,000,000 | | \$ (250,050) | \$ (325,622) | \$ (2,501,907) | \$ (38,552,192) | \$ 40,490,490 | \$ (19,509,510) |

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

| Current Fiscal Year - Total Swaps | | | | | | | | Cash Flow | | | | Mark to Market | |
|---|--|--|--|--|--|--|--|--------------|---------------|----------------|------------------------|------------------------|---------------------|
| | | | | | | | | Prior Month | Current Month | Fiscal YTD | Cumulative Net Accrual | Current Mark to Market | Notional Difference |
| Total Current Year Active & Terminated Swaps | | | | | | | | \$ (250,050) | \$ (325,622) | \$ (2,501,907) | \$ (38,552,192) | \$ 40,490,490 | \$ (19,509,510) |



| Cash Flow Comparison | |
|---|--------------|
| Synthetic Fixed vs. Fixed Rate Debt | |
| Cash Flow to Date | |
| Synthetic Fixed = | \$53,572,144 |
| Fixed Rate = | \$63,096,642 |
| Assumptions: | |
| - Fixed rate debt issued at 4.93% in Mar-07 (estimated TE rate - Bloomberg) | |
| - 'Synthetic' includes swap cash flow + interest + fees to date | |

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Exhibit "D"

IRVINE RANCH WATER DISTRICT AP DISBURSEMENTS AND VOIDS FOR MARCH 2021

| CHECK OR ELECTRONIC # | PAYMENT DATE | SUPPLIERS | PAYMENT AMOUNT | PAYMENT METHOD | STATUS |
|-----------------------|--------------|---|----------------|----------------|------------|
| 416091 | 4-Mar-21 | Kanady, Jacob | 91.00 | IRWD CHECK | Reconciled |
| 416092 | 4-Mar-21 | 165 SCALE LLC | 134.38 | IRWD CHECK | Reconciled |
| 416093 | 4-Mar-21 | A&Y ASPHALT CONTRACTORS, INC. | 30,194.45 | IRWD CHECK | Reconciled |
| 416094 | 4-Mar-21 | ABM INDUSTRY GROUPS, LLC | 900.00 | IRWD CHECK | Reconciled |
| 416095 | 4-Mar-21 | ACCURATE MEASUREMENT SYSTEMS INC | 1,143.32 | IRWD CHECK | Negotiable |
| 416096 | 4-Mar-21 | ACCUSOURCE, INC. | 313.12 | IRWD CHECK | Reconciled |
| 416097 | 4-Mar-21 | ADAM'S FALCONRY SERVICE, LLC | 3,120.00 | IRWD CHECK | Reconciled |
| 416098 | 4-Mar-21 | ADS CORP. | 2,250.00 | IRWD CHECK | Reconciled |
| 416099 | 4-Mar-21 | ADVANCED CALIBRATION DESIGNS INC | 1,744.00 | IRWD CHECK | Reconciled |
| 416100 | 4-Mar-21 | AFLAC | 2,227.70 | IRWD CHECK | Reconciled |
| 416101 | 4-Mar-21 | AGHAEAKLOUEI, FARSHID | 17.54 | IRWD CHECK | Reconciled |
| 416102 | 4-Mar-21 | AIRGAS, INC. | 41.54 | IRWD CHECK | Reconciled |
| 416103 | 4-Mar-21 | ALATORRE, MANUEL | 124.13 | IRWD CHECK | Negotiable |
| 416104 | 4-Mar-21 | ALCOR SOLUTIONS, INC | 80,568.00 | IRWD CHECK | Reconciled |
| 416105 | 4-Mar-21 | ALL STAR GLASS | 370.13 | IRWD CHECK | Reconciled |
| 416106 | 4-Mar-21 | AMAZON CAPITAL SERVICES, INC. | 496.54 | IRWD CHECK | Reconciled |
| 416107 | 4-Mar-21 | AMERICAN CIVIL CONSTRUCTORS | 1,703.67 | IRWD CHECK | Reconciled |
| 416108 | 4-Mar-21 | AMWINS GROUP BENEFITS INC. | 4,031.90 | IRWD CHECK | Reconciled |
| 416109 | 4-Mar-21 | ANIXTER INC | 32,878.54 | IRWD CHECK | Reconciled |
| 416110 | 4-Mar-21 | ANTHONY N. LARSEN | 450.00 | IRWD CHECK | Reconciled |
| 416111 | 4-Mar-21 | APD CONSULTANTS, INC. | 3,019.00 | IRWD CHECK | Reconciled |
| 416112 | 4-Mar-21 | ARIZONA PIPELINE CO. | 367.72 | IRWD CHECK | Reconciled |
| 416113 | 4-Mar-21 | ASSURED FLOW SALES INC | 161.60 | IRWD CHECK | Reconciled |
| 416114 | 4-Mar-21 | AT&T | 120.30 | IRWD CHECK | Reconciled |
| 416115 | 4-Mar-21 | AT&T | 484.00 | IRWD CHECK | Reconciled |
| 416116 | 4-Mar-21 | AT&T | 756.13 | IRWD CHECK | Reconciled |
| 416117 | 4-Mar-21 | AUTOZONE PARTS, INC. | 274.59 | IRWD CHECK | Reconciled |
| 416118 | 4-Mar-21 | BATTERIES PLUS AND BATTERIES PLUS BULBS | 4,752.59 | IRWD CHECK | Reconciled |
| 416119 | 4-Mar-21 | BATTERY SYSTEMS INC | 1,446.50 | IRWD CHECK | Reconciled |
| 416120 | 4-Mar-21 | BAVCO BACKFLOW APPARATUS & VALVE COMPANY | 95.00 | IRWD CHECK | Reconciled |
| 416121 | 4-Mar-21 | BGI HOLDINGS I LLC | 45.23 | IRWD CHECK | Reconciled |
| 416122 | 4-Mar-21 | BIGWIG MONSTER, LLC | 2,700.00 | IRWD CHECK | Negotiable |
| 416123 | 4-Mar-21 | BILL'S SWEEPING SERVICE INC | 1,393.00 | IRWD CHECK | Reconciled |
| 416124 | 4-Mar-21 | BLACK & VEATCH CORPORATION | 80,697.50 | IRWD CHECK | Reconciled |
| 416125 | 4-Mar-21 | BORCHARD SURVEYING & MAPPING, INC. | 3,572.50 | IRWD CHECK | Reconciled |
| 416126 | 4-Mar-21 | BRENNTAG PACIFIC INC | 5,675.20 | IRWD CHECK | Reconciled |
| 416127 | 4-Mar-21 | BSI SERVICES AND SOLUTIONS (WEST) INC. | 875.00 | IRWD CHECK | Reconciled |
| 416128 | 4-Mar-21 | C WELLS PIPELINE MATERIALS INC | 30,078.00 | IRWD CHECK | Reconciled |
| 416129 | 4-Mar-21 | CABRERA, LORENA | 765.11 | IRWD CHECK | Negotiable |
| 416130 | 4-Mar-21 | CAI, JIN | 98.57 | IRWD CHECK | Negotiable |
| 416131 | 4-Mar-21 | CAL MICROTURBINE, INC. | 106,932.00 | IRWD CHECK | Reconciled |
| 416132 | 4-Mar-21 | CALATLANTIC HOMES | 146.42 | IRWD CHECK | Reconciled |
| 416133 | 4-Mar-21 | CALIFORNIA BARRICADE RENTAL, INC. | 28,292.50 | IRWD CHECK | Reconciled |
| 416134 | 4-Mar-21 | CALIFORNIA DEPARTMENT OF TAX AND FEE ADMINISTRATION | 1,476.38 | IRWD CHECK | Reconciled |
| 416135 | 4-Mar-21 | CALIFORNIA NEWSPAPER PARTNERSHIP | 1,434.64 | IRWD CHECK | Reconciled |
| 416136 | 4-Mar-21 | CALIFORNIA PACIFIC HOMES | 249.65 | IRWD CHECK | Reconciled |
| 416137 | 4-Mar-21 | CANON SOLUTIONS AMERICA, INC. | 16.85 | IRWD CHECK | Reconciled |
| 416138 | 4-Mar-21 | CANON SOLUTIONS AMERICA, INC. | 30.52 | IRWD CHECK | Reconciled |
| 416139 | 4-Mar-21 | CAO, CINDY | 41.17 | IRWD CHECK | Reconciled |
| 416140 | 4-Mar-21 | CAO, HOA | 92.28 | IRWD CHECK | Reconciled |
| 416141 | 4-Mar-21 | CASTILLO, NAOMI | 55.10 | IRWD CHECK | Reconciled |
| 416142 | 4-Mar-21 | CHA, SANG HYUN | 47.82 | IRWD CHECK | Reconciled |
| 416143 | 4-Mar-21 | CHEM TECH INTERNATIONAL INC | 11,372.58 | IRWD CHECK | Reconciled |
| 416144 | 4-Mar-21 | CHESHIRE MEDICAL CORPORATION | 544.00 | IRWD CHECK | Reconciled |
| 416145 | 4-Mar-21 | CITY OF IRVINE | 2,632.05 | IRWD CHECK | Reconciled |
| 416146 | 4-Mar-21 | CITY OF ORANGE | 197.70 | IRWD CHECK | Reconciled |
| 416147 | 4-Mar-21 | CLA-VAL COMPANY | 5,413.88 | IRWD CHECK | Reconciled |
| 416148 | 4-Mar-21 | CLARIS STRATEGY INC. | 1,462.50 | IRWD CHECK | Reconciled |
| 416149 | 4-Mar-21 | CLEAN ENERGY | 4,242.88 | IRWD CHECK | Reconciled |
| 416150 | 4-Mar-21 | CLEARY, SUSAN | 38.53 | IRWD CHECK | Reconciled |
| 416151 | 4-Mar-21 | CNC ENGINEERING | 627.50 | IRWD CHECK | Reconciled |
| 416152 | 4-Mar-21 | COAST PLUMBING HEATING AND AIR, INC | 525.00 | IRWD CHECK | Reconciled |
| 416153 | 4-Mar-21 | COLONIAL LIFE & ACCIDENT INSURANCE CO. | 1,103.26 | IRWD CHECK | Reconciled |
| 416154 | 4-Mar-21 | COMMERCIAL DOOR OF ORANGE COUNTY, INC. | 19,294.48 | IRWD CHECK | Reconciled |
| 416155 | 4-Mar-21 | CONSTELLATION NEWENERGY, INC. | 8,836.15 | IRWD CHECK | Reconciled |
| 416156 | 4-Mar-21 | CORO SOUTHERN CALIFORNIA | 500.00 | IRWD CHECK | Reconciled |
| 416157 | 4-Mar-21 | COX COMMUNICATIONS, INC. | 388.86 | IRWD CHECK | Reconciled |

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

| CHECK OR ELECTRONIC # | PAYMENT DATE | SUPPLIERS | PAYMENT AMOUNT | PAYMENT METHOD | STATUS |
|--------------------------|-----------------|--|----------------|-------------------|------------|
| 416158 | 4-Mar-21 | DEMEURE, MICHAEL | 122.02 | IRWD CHECK | Reconciled |
| 416159 | 4-Mar-21 | DENALI WATER SOLUTIONS LLC | 7,293.32 | IRWD CHECK | Reconciled |
| 416160 | 4-Mar-21 | DILYTICS INC | 3,880.00 | IRWD CHECK | Reconciled |
| 416161 | 4-Mar-21 | DIRECTV INC | 146.99 | IRWD CHECK | Reconciled |
| 416162 | 4-Mar-21 | DOPUDJA & WELLS CONSULTING INC. | 6,000.00 | IRWD CHECK | Reconciled |
| 416163 | 4-Mar-21 | DPR SOUTHERN CALIFORNIA | 699.88 | IRWD CHECK | Reconciled |
| 416164 | 4-Mar-21 | DUDEK | 12,606.75 | IRWD CHECK | Reconciled |
| 416165 | 4-Mar-21 | EAGLE PRINT DYNAMICS | 1,188.49 | IRWD CHECK | Reconciled |
| 416166 | 4-Mar-21 | EHS INTERNATIONAL,INC | 760.00 | IRWD CHECK | Reconciled |
| 416167 | 4-Mar-21 | ELITE EQUIPMENT, INC. | 164.62 | IRWD CHECK | Reconciled |
| 416168 | 4-Mar-21 | ENTERPRISE SECURITY, INC | 6,246.45 | IRWD CHECK | Reconciled |
| 416169 | 4-Mar-21 | ENVIRONMENTAL SCIENCE ASSOCIATES | 5,482.28 | IRWD CHECK | Reconciled |
| 416170 | 4-Mar-21 | EQUALTOX, LLC | 15,500.00 | IRWD CHECK | Reconciled |
| 416171 | 4-Mar-21 | EUROFINS CALSCIENCE, LLC | 2,088.45 | IRWD CHECK | Reconciled |
| 416172 | 4-Mar-21 | FARRELL & ASSOCIATES | 103.18 | IRWD CHECK | Reconciled |
| 416173 | 4-Mar-21 | FASTBLUE COMMUNICATIONS INC. | 1,917.00 | IRWD CHECK | Reconciled |
| 416174 | 4-Mar-21 | FERGUSON ENTERPRISES, LLC | 8,724.53 | IRWD CHECK | Reconciled |
| 416175 | 4-Mar-21 | FERRIERA | 1,187.00 | IRWD CHECK | Reconciled |
| 416176 | 4-Mar-21 | FIRE EXTINGUISHING SAFETY & SERVICE | 785.34 | IRWD CHECK | Reconciled |
| 416177 | 4-Mar-21 | FISERV SOLUTIONS, LLC | 8.90 | IRWD CHECK | Reconciled |
| 416178 | 4-Mar-21 | FISHER SCIENTIFIC COMPANY LLC | 3,154.84 | IRWD CHECK | Reconciled |
| 416179 | 4-Mar-21 | FLEET SOLUTIONS LLC | 6,018.85 | IRWD CHECK | Reconciled |
| 416180 | 4-Mar-21 | FLUID CONSERVATION SYSTEMS INC | 235.50 | IRWD CHECK | Reconciled |
| 416181 | 4-Mar-21 | FRASE, STUART | 30.90 | IRWD CHECK | Negotiable |
| 416182 | 4-Mar-21 | FRONTIER CALIFORNIA INC. | 293.57 | IRWD CHECK | Reconciled |
| 416183 | 4-Mar-21 | FUENTES, HILDA | 176.29 | IRWD CHECK | Negotiable |
| 416184 | 4-Mar-21 | FULLER TRUCK ACCESSORIES | 535.52 | IRWD CHECK | Reconciled |
| 416185 | 4-Mar-21 | FYDAQ COMPANY INC | 5,200.00 | IRWD CHECK | Reconciled |
| 416186 | 4-Mar-21 | FYDAQ COMPANY INC | 2,330.00 | IRWD CHECK | Reconciled |
| 416187 | 4-Mar-21 | FYDAQ COMPANY, INC. | 2,330.00 | IRWD CHECK | Reconciled |
| 416188 | 4-Mar-21 | GANAHL LUMBER CO. | 3,423.51 | IRWD CHECK | Reconciled |
| 416189 | 4-Mar-21 | GRAINGER | 1,729.03 | IRWD CHECK | Reconciled |
| 416190 | 4-Mar-21 | GRAYBAR ELECTRIC COMPANY | 893.69 | IRWD CHECK | Reconciled |
| 416191 | 4-Mar-21 | GRIFFIS, ANGIE | 181.02 | IRWD CHECK | Reconciled |
| 416192 | 4-Mar-21 | GU, HONG | 110.93 | IRWD CHECK | Reconciled |
| 416193 | 4-Mar-21 | GUPTA, NAINA | 102.83 | IRWD CHECK | Reconciled |
| 416194 | 4-Mar-21 | HAAKER EQUIPMENT COMPANY | 2,482.16 | IRWD CHECK | Reconciled |
| 416195 | 4-Mar-21 | HACH COMPANY | 8,752.93 | IRWD CHECK | Reconciled |
| 416196 | 4-Mar-21 | HAMPTON TEDDER TECHNICAL SERVICES, INC | 7,950.00 | IRWD CHECK | Reconciled |
| 416197 | 4-Mar-21 | HARTFORD LIFE AND ACCIDENT INSURANCE COMPANY | 72.30 | IRWD CHECK | Reconciled |
| 416198 | 4-Mar-21 | HDR ENGINEERING INC | 5,136.50 | IRWD CHECK | Reconciled |
| 416199 | 4-Mar-21 | HELPMATES STAFFING SERVICES | 2,230.20 | IRWD CHECK | Reconciled |
| 416200 | 4-Mar-21 | HENKELS & MCCOY, INC. | 1,900.00 | IRWD CHECK | Negotiable |
| 416201 | 4-Mar-21 | HERC RENTALS INC. | 13.14 | IRWD CHECK | Reconciled |
| 416202 | 4-Mar-21 | HERITAGE FIELDS EL TORO, LLC | 161.14 | IRWD CHECK | Negotiable |
| 416203 | 4-Mar-21 | HI-LINE INC | 490.54 | IRWD CHECK | Reconciled |
| 416204 | 4-Mar-21 | HILL BROTHERS CHEMICAL COMPANY | 5,903.20 | IRWD CHECK | Reconciled |
| 416205 | 4-Mar-21 | HILL CONSTRUCTION CO | 1,786.33 | IRWD CHECK | Reconciled |
| 416206 | 4-Mar-21 | HOME DEPOT USA INC | 781.37 | IRWD CHECK | Reconciled |
| 416207 | 4-Mar-21 | HP CUSTOM HOMES, INC. | 68.90 | IRWD CHECK | Reconciled |
| 416208 | 4-Mar-21 | HUNG, MIRANDA | 41.44 | IRWD CHECK | Negotiable |
| 416209 | 4-Mar-21 | HWANG, WHEIJIAN | 46.54 | IRWD CHECK | Reconciled |
| 416210 | 4-Mar-21 | IDEXX DISTRIBUTION, INC | 13,084.73 | IRWD CHECK | Reconciled |
| 416211 | 4-Mar-21 | IMPERIAL SPRINKLER SUPPLY, INC. | 758.90 | IRWD CHECK | Reconciled |
| 416212 | 4-Mar-21 | INDUSTRIAL NETWORKING SOLUTIONS | 716.41 | IRWD CHECK | Reconciled |
| 416213 | 4-Mar-21 | INFOSEND, INC. | 8,056.45 | IRWD CHECK | Reconciled |
| 416214 | 4-Mar-21 | INORGANIC VENTURES INC | 1,148.67 | IRWD CHECK | Reconciled |
| 416215 | 4-Mar-21 | IRVINE MANAGEMENT COMPANY | 1,758.77 | IRWD CHECK | Reconciled |
| 416216 | 4-Mar-21 | IRVINE PACIFIC | 647.17 | IRWD CHECK | Reconciled |
| 416217 | 4-Mar-21 | IRVINE PIPE & SUPPLY INC | 2,794.03 | IRWD CHECK | Reconciled |
| 416218 | 4-Mar-21 | IRVINE UNIFIED SCHOOL DISTRICT | 80.04 | IRWD CHECK | Reconciled |
| 416219 | 4-Mar-21 | JCI JONES CHEMICALS INC | 2,476.19 | IRWD CHECK | Reconciled |
| 416220 | 4-Mar-21 | JUST ENERGY SOLUTIONS INC. | 3,223.90 | IRWD CHECK | Reconciled |
| 416221 | 4-Mar-21 | KAESER COMPRESSORS, INC. | 3,055.75 | IRWD CHECK | Reconciled |
| 416222 | 4-Mar-21 | KOREN, GALI | 42.71 | IRWD CHECK | Reconciled |
| 416223 | 4-Mar-21 | LA HABRA FENCE COMPANY INC | 25,787.00 | IRWD CHECK | Reconciled |
| 416224 | 4-Mar-21 | LAGUNA BEACH COUNTY WATER DISTRICT | 9,414.55 | IRWD CHECK | Reconciled |

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| 416225 | 4-Mar-21 | LANA BECKETT | 84.00 | IRWD CHECK | Reconciled |
| 416226 | 4-Mar-21 | LANDCARE HOLDINGS, INC. | 77,726.33 | IRWD CHECK | Reconciled |
| 416227 | 4-Mar-21 | LANDSEA HOLDINGS CORPORATION | 193.74 | IRWD CHECK | Negotiable |
| 416228 | 4-Mar-21 | LCS TECHNOLOGIES, INC. | 7,695.00 | IRWD CHECK | Reconciled |
| 416229 | 4-Mar-21 | LEE, CATHERINE | 154.53 | IRWD CHECK | Reconciled |
| 416230 | 4-Mar-21 | LEE, HANAH | 26.73 | IRWD CHECK | Reconciled |
| 416231 | 4-Mar-21 | LENNAR HOMES | 1,858.03 | IRWD CHECK | Reconciled |
| 416232 | 4-Mar-21 | LENNAR HOMES OF CALIFORNIA | 2,600.00 | IRWD CHECK | Reconciled |
| 416233 | 4-Mar-21 | LI, LIUJIE | 39.60 | IRWD CHECK | Negotiable |
| 416234 | 4-Mar-21 | LILLESTRAND LEADERSHIP CONSULTING, INC. | 3,300.00 | IRWD CHECK | Reconciled |
| 416235 | 4-Mar-21 | LIN, OLIVER | 55.28 | IRWD CHECK | Reconciled |
| 416236 | 4-Mar-21 | LIU, MANDY JUAN | 1,167.13 | IRWD CHECK | Reconciled |
| 416237 | 4-Mar-21 | LOS ANGELES ENGINEERING, INC | 1,543.33 | IRWD CHECK | Reconciled |
| 416238 | 4-Mar-21 | LUBRICATION ENGINEERS, INC. | 2,083.39 | IRWD CHECK | Reconciled |
| 416239 | 4-Mar-21 | MBC AQUATIC SCIENCES, INC. | 1,350.00 | IRWD CHECK | Reconciled |
| 416240 | 4-Mar-21 | MBF CONSULTING, INC. | 26,344.16 | IRWD CHECK | Reconciled |
| 416241 | 4-Mar-21 | MC FADDEN-DALE INDUSTRIAL | 131.43 | IRWD CHECK | Reconciled |
| 416242 | 4-Mar-21 | MESRI, AMIR | 16.69 | IRWD CHECK | Reconciled |
| 416243 | 4-Mar-21 | MILES CHEMICAL COMPANY, INC. | 6,413.26 | IRWD CHECK | Reconciled |
| 416244 | 4-Mar-21 | MRO ELECTRIC & SUPPLY CO. | 3,411.00 | IRWD CHECK | Reconciled |
| 416245 | 4-Mar-21 | MUNICIPAL UNDERGROUND SERVICES INC | 3,250.00 | IRWD CHECK | Reconciled |
| 416246 | 4-Mar-21 | NANDA, ILONA | 46.33 | IRWD CHECK | Reconciled |
| 416247 | 4-Mar-21 | NATIONAL READY MIXED CONCRETE SALES, LLC | 949.53 | IRWD CHECK | Reconciled |
| 416248 | 4-Mar-21 | NEPTUNE TECHNOLOGY GROUP, INC. | 123,093.60 | IRWD CHECK | Reconciled |
| 416249 | 4-Mar-21 | NORTHWOOD PLACE APTS | 27.17 | IRWD CHECK | Reconciled |
| 416250 | 4-Mar-21 | OC BASED LLC | 1,669.20 | IRWD CHECK | Reconciled |
| 416251 | 4-Mar-21 | OCTA | 6,863.00 | IRWD CHECK | Reconciled |
| 416252 | 4-Mar-21 | OLIN CORPORATION | 23,397.74 | IRWD CHECK | Reconciled |
| 416253 | 4-Mar-21 | ONESOURCE DISTRIBUTORS LLC | 4,317.78 | IRWD CHECK | Reconciled |
| 416254 | 4-Mar-21 | ORANGE COUNTY AUTO PARTS CO | 865.31 | IRWD CHECK | Reconciled |
| 416255 | 4-Mar-21 | OSTS, INC | 487.50 | IRWD CHECK | Reconciled |
| 416256 | 4-Mar-21 | PACIFIC CITY PROPERTIES | 81.14 | IRWD CHECK | Reconciled |
| 416257 | 4-Mar-21 | PACIFIC COAST BOLT CORP | 346.94 | IRWD CHECK | Reconciled |
| 416258 | 4-Mar-21 | PACIFIC PARTS & CONTROLS INC | 2,858.29 | IRWD CHECK | Reconciled |
| 416259 | 4-Mar-21 | PACRIM ENGINEERING INC. | 1,485.00 | IRWD CHECK | Reconciled |
| 416260 | 4-Mar-21 | PADILLA, CHERYL | 104.86 | IRWD CHECK | Reconciled |
| 416261 | 4-Mar-21 | PAULUS ENGINEERING INC | 44,629.54 | IRWD CHECK | Reconciled |
| 416262 | 4-Mar-21 | PERKINELMER HEALTH SCIENCES INC | 161.84 | IRWD CHECK | Reconciled |
| 416263 | 4-Mar-21 | PLUMBERS DEPOT INC. | 1,541.50 | IRWD CHECK | Reconciled |
| 416264 | 4-Mar-21 | PRE-PAID LEGAL SERVICES, INC. | 1,041.73 | IRWD CHECK | Reconciled |
| 416265 | 4-Mar-21 | PRIDEMARK CONTRACTORS, INC. | 2,627.59 | IRWD CHECK | Reconciled |
| 416266 | 4-Mar-21 | PSOMAS | 12,750.50 | IRWD CHECK | Reconciled |
| 416267 | 4-Mar-21 | PTI SAND & GRAVEL INC | 1,118.81 | IRWD CHECK | Reconciled |
| 416268 | 4-Mar-21 | QUADIENT LEASING USA, INC. | 3,265.46 | IRWD CHECK | Reconciled |
| 416269 | 4-Mar-21 | RAM AIR ENGINEERING INC | 10,082.30 | IRWD CHECK | Reconciled |
| 416270 | 4-Mar-21 | REACH EMPLOYEE ASSISTANCE INC | 1,094.80 | IRWD CHECK | Reconciled |
| 416271 | 4-Mar-21 | REAL WATER CONSULTANTS INC. | 16,116.00 | IRWD CHECK | Negotiable |
| 416272 | 4-Mar-21 | RED WING SHOE STORE | 337.37 | IRWD CHECK | Reconciled |
| 416273 | 4-Mar-21 | REFRIGERATION SUPPLIES DISTRIBUTOR | 2,783.77 | IRWD CHECK | Reconciled |
| 416274 | 4-Mar-21 | RELIANCE STANDARD LIFE INSURANCE COMPANY | 30,666.99 | IRWD CHECK | Reconciled |
| 416275 | 4-Mar-21 | RESILIENT COMMUNICATIONS INC. | 233.22 | IRWD CHECK | Negotiable |
| 416276 | 4-Mar-21 | RICHARD C. SLADE & ASSOCIATES LLC | 1,038.32 | IRWD CHECK | Negotiable |
| 416277 | 4-Mar-21 | RICHMOND AMERICAN HOMES OF MARYLAND, INC | 707.77 | IRWD CHECK | Reconciled |
| 416278 | 4-Mar-21 | RMF CONTRACTING INC | 1,710.55 | IRWD CHECK | Negotiable |
| 416279 | 4-Mar-21 | RODEO HOMES | 1,317.86 | IRWD CHECK | Negotiable |
| 416280 | 4-Mar-21 | ROGERS, PATRICK | 647.93 | IRWD CHECK | Reconciled |
| 416281 | 4-Mar-21 | SANTA MARGARITA FORD | 343.45 | IRWD CHECK | Reconciled |
| 416282 | 4-Mar-21 | SC HOMES, INC | 1,378.08 | IRWD CHECK | Reconciled |
| 416283 | 4-Mar-21 | SERRANO WATER DISTRICT | 13,889.87 | IRWD CHECK | Reconciled |
| 416284 | 4-Mar-21 | SHAMROCK SUPPLY CO INC | 236.94 | IRWD CHECK | Reconciled |
| 416285 | 4-Mar-21 | SHEA HOMES LIMITED PARTNERSHIP | 1,469.00 | IRWD CHECK | Negotiable |
| 416286 | 4-Mar-21 | SHOFFEITT PIPELINE | 2,600.00 | IRWD CHECK | Reconciled |
| 416287 | 4-Mar-21 | SO CAL SANDBAGS, INC | 1,314.00 | IRWD CHECK | Reconciled |
| 416288 | 4-Mar-21 | SOUTHERN CALIFORNIA EDISON COMPANY | 254,943.56 | IRWD CHECK | Reconciled |
| 416289 | 4-Mar-21 | SOUTHSIDE TOWING | 125.00 | IRWD CHECK | Negotiable |
| 416290 | 4-Mar-21 | SOUTHWEST VALVE & EQUIPMENT INC | 27,170.26 | IRWD CHECK | Reconciled |
| 416291 | 4-Mar-21 | SPARKLETTS | 172.43 | IRWD CHECK | Reconciled |

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| 416292 | 4-Mar-21 | STANFORD COURT APARTMENTS | 50.95 | IRWD CHECK | Reconciled |
| 416293 | 4-Mar-21 | STANTEC CONSULTING SERVICES INC. | 2,475.00 | IRWD CHECK | Reconciled |
| 416294 | 4-Mar-21 | STERIS CORPORATION | 5,379.42 | IRWD CHECK | Reconciled |
| 416295 | 4-Mar-21 | STICE COMPANY INC | 1,782.88 | IRWD CHECK | Reconciled |
| 416296 | 4-Mar-21 | SUEZ TREATMENT SOLUTIONS INC. | 6,194.93 | IRWD CHECK | Reconciled |
| 416297 | 4-Mar-21 | SUGA, SHON | 81.20 | IRWD CHECK | Reconciled |
| 416298 | 4-Mar-21 | SUKLE ADVERTISING INC. | 44,149.19 | IRWD CHECK | Reconciled |
| 416299 | 4-Mar-21 | SUPPORT PRODUCT SERVICES, INC | 2,988.85 | IRWD CHECK | Reconciled |
| 416300 | 4-Mar-21 | SWAINS ELECTRIC MOTOR SERVICE | 5,985.23 | IRWD CHECK | Negotiable |
| 416301 | 4-Mar-21 | TANKVISIONS, INC | 30.00 | IRWD CHECK | Reconciled |
| 416302 | 4-Mar-21 | TETRA TECH, INC | 19,766.66 | IRWD CHECK | Reconciled |
| 416303 | 4-Mar-21 | THE HAWORTH CORPORATION | 1,838.02 | IRWD CHECK | Negotiable |
| 416304 | 4-Mar-21 | THOMPSON & PHIPPS INC | 1,955.18 | IRWD CHECK | Reconciled |
| 416305 | 4-Mar-21 | THY TRAN AND NGAMY NGUYEN | 284.19 | IRWD CHECK | Reconciled |
| 416306 | 4-Mar-21 | THYSSENKRUPP ELEVATOR CORPORATION | 211.44 | IRWD CHECK | Reconciled |
| 416307 | 4-Mar-21 | TOLL BROS., INC. | 127.63 | IRWD CHECK | Reconciled |
| 416308 | 4-Mar-21 | TOTAL RESOURCE MANAGEMENT, INC | 807.50 | IRWD CHECK | Reconciled |
| 416309 | 4-Mar-21 | TREE OF LIFE NURSERY | 34,189.08 | IRWD CHECK | Reconciled |
| 416310 | 4-Mar-21 | TRI COUNTY PUMP COMPANY | 71,895.14 | IRWD CHECK | Reconciled |
| 416311 | 4-Mar-21 | TRI POINTE HOMES, INC. | 116.82 | IRWD CHECK | Reconciled |
| 416312 | 4-Mar-21 | TRUCPARCO | 1,308.43 | IRWD CHECK | Reconciled |
| 416313 | 4-Mar-21 | TULLY, MIKE | 787.05 | IRWD CHECK | Reconciled |
| 416314 | 4-Mar-21 | U.S. GAIN - A DIVISION OF U.S. VENTURE, INC. | 527.18 | IRWD CHECK | Reconciled |
| 416315 | 4-Mar-21 | UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA | 6,035.80 | IRWD CHECK | Reconciled |
| 416316 | 4-Mar-21 | UNITED PARCEL SERVICE INC | 52.36 | IRWD CHECK | Reconciled |
| 416317 | 4-Mar-21 | UNITED SITE SERVICES OF CALIFORNIA INC | 632.91 | IRWD CHECK | Reconciled |
| 416318 | 4-Mar-21 | UNIVAR SOLUTIONS USA INC. | 4,693.59 | IRWD CHECK | Reconciled |
| 416319 | 4-Mar-21 | VAN SCHOYCK, MICHOL | 197.52 | IRWD CHECK | Reconciled |
| 416320 | 4-Mar-21 | VAUGHAN'S INDUSTRIAL REPAIR CO INC | 1,829.40 | IRWD CHECK | Reconciled |
| 416321 | 4-Mar-21 | VERIZON WIRELESS SERVICES LLC | 20,698.32 | IRWD CHECK | Reconciled |
| 416322 | 4-Mar-21 | VERTECH INDUSTRIAL SYSTEMS, LLC | 2,812.50 | IRWD CHECK | Reconciled |
| 416323 | 4-Mar-21 | VON AUKER, JASON | 35.24 | IRWD CHECK | Reconciled |
| 416324 | 4-Mar-21 | WASTE MANAGEMENT COLLECTIONS AND RECYCLING, INC. | 2,391.18 | IRWD CHECK | Reconciled |
| 416325 | 4-Mar-21 | WATER MANAGEMENT GROUP | 475.00 | IRWD CHECK | Reconciled |
| 416326 | 4-Mar-21 | WAXIE'S ENTERPRISES, INC | 1,257.82 | IRWD CHECK | Reconciled |
| 416327 | 4-Mar-21 | WECK LABORATORIES INC | 1,784.00 | IRWD CHECK | Reconciled |
| 416328 | 4-Mar-21 | WEST YOST & ASSOCIATES | 13,746.00 | IRWD CHECK | Reconciled |
| 416329 | 4-Mar-21 | WESTAMERICA COMMUNICATIONS, INC. | 2,184.47 | IRWD CHECK | Reconciled |
| 416330 | 4-Mar-21 | WESTERN NATIONAL CONTRACTORS | 1,605.32 | IRWD CHECK | Negotiable |
| 416331 | 4-Mar-21 | WESTERN WEATHER GROUP INC | 463.78 | IRWD CHECK | Reconciled |
| 416332 | 4-Mar-21 | WILLIAM LYON HOMES, INC. | 334.16 | IRWD CHECK | Negotiable |
| 416333 | 4-Mar-21 | WILMINGTON INSTRUMENT COMPANY INC | 4,712.63 | IRWD CHECK | Reconciled |
| 416334 | 4-Mar-21 | ZHANG, MENGMENG | 1,312.23 | IRWD CHECK | Reconciled |
| 416335 | 11-Mar-21 | Akiyoshi, Eric S (Eric) | 1,414.85 | IRWD CHECK | Reconciled |
| 416336 | 11-Mar-21 | Fike, Ethan O (Ethan) | 298.00 | IRWD CHECK | Reconciled |
| 416337 | 11-Mar-21 | McGehee, Joseph M (Joe) | 180.00 | IRWD CHECK | Reconciled |
| 416338 | 11-Mar-21 | Reynoso, Pio (Pio) | 293.00 | IRWD CHECK | Reconciled |
| 416339 | 11-Mar-21 | ION WAVE TECHNOLOGIES, INC. | 22,200.00 | IRWD CHECK | Reconciled |
| 416340 | 11-Mar-21 | A&A WIPING CLOTH CO | 1,443.85 | IRWD CHECK | Reconciled |
| 416341 | 11-Mar-21 | ABM INDUSTRY GROUPS, LLC | 6,124.67 | IRWD CHECK | Reconciled |
| 416342 | 11-Mar-21 | ACWA | 7,000.00 | IRWD CHECK | Reconciled |
| 416343 | 11-Mar-21 | AIR TECHNOLOGY LABORATORIES | 503.00 | IRWD CHECK | Reconciled |
| 416344 | 11-Mar-21 | AIRGAS, INC. | 3,383.81 | IRWD CHECK | Reconciled |
| 416345 | 11-Mar-21 | ALSTON & BIRD LLP | 141,790.38 | IRWD CHECK | Reconciled |
| 416346 | 11-Mar-21 | AM CONSERVATION GROUP, INC. | 536.91 | IRWD CHECK | Reconciled |
| 416347 | 11-Mar-21 | AMAZON CAPITAL SERVICES, INC. | 3,572.78 | IRWD CHECK | Reconciled |
| 416348 | 11-Mar-21 | AMETEK BROOKFIELD | 1,759.33 | IRWD CHECK | Reconciled |
| 416349 | 11-Mar-21 | ANDERSONPENNA PARTNERS, INC. | 25,345.00 | IRWD CHECK | Reconciled |
| 416350 | 11-Mar-21 | ARMORCAST PRODUCTS COMPANY | 19,515.89 | IRWD CHECK | Reconciled |
| 416351 | 11-Mar-21 | ASHFORD, WALT | 134.71 | IRWD CHECK | Reconciled |
| 416352 | 11-Mar-21 | AT&T | 5,351.40 | IRWD CHECK | Reconciled |
| 416353 | 11-Mar-21 | AT&T | 1,681.43 | IRWD CHECK | Reconciled |
| 416354 | 11-Mar-21 | AUTOZONE PARTS, INC. | 807.86 | IRWD CHECK | Reconciled |
| 416355 | 11-Mar-21 | B & K ELECTRIC WHOLESALE | 3,354.67 | IRWD CHECK | Reconciled |
| 416356 | 11-Mar-21 | BATTERIES PLUS AND BATTERIES PLUS BULBS | 1,889.93 | IRWD CHECK | Reconciled |
| 416357 | 11-Mar-21 | BATTERY SYSTEMS INC | 4,111.27 | IRWD CHECK | Reconciled |
| 416358 | 11-Mar-21 | BELL TOWER FLORIST & GIFTS | 113.13 | IRWD CHECK | Negotiable |

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| 416359 | 11-Mar-21 | BEST DRILLING AND PUMP, INC. | 143,307.50 | IRWD CHECK | Reconciled |
| 416360 | 11-Mar-21 | BIOMAGIC INC | 6,399.49 | IRWD CHECK | Reconciled |
| 416361 | 11-Mar-21 | BLOOMBERG FINANCE LP | 13,305.00 | IRWD CHECK | Reconciled |
| 416362 | 11-Mar-21 | BOYD & ASSOCIATES | 3,477.00 | IRWD CHECK | Reconciled |
| 416363 | 11-Mar-21 | BRIGHTVIEW LANDSCAPE SERVICES, INC. | 2,162.40 | IRWD CHECK | Reconciled |
| 416364 | 11-Mar-21 | BUTTS, MARY | 308.84 | IRWD CHECK | Reconciled |
| 416365 | 11-Mar-21 | CALIFORNIA BARRICADE RENTAL, INC. | 16,252.37 | IRWD CHECK | Reconciled |
| 416366 | 11-Mar-21 | CALIFORNIA DEPARTMENT OF TAX AND FEE ADMINISTRATION | 4,292.00 | IRWD CHECK | Reconciled |
| 416367 | 11-Mar-21 | CANNON CORPORATION | 10,773.50 | IRWD CHECK | Reconciled |
| 416368 | 11-Mar-21 | CANON SOLUTIONS AMERICA, INC. | 4,230.80 | IRWD CHECK | Reconciled |
| 416369 | 11-Mar-21 | CAPTIVE AUDIENCE MARKETING INC. | 79.00 | IRWD CHECK | Reconciled |
| 416370 | 11-Mar-21 | CENTROID SYSTEMS, INC. | 44,425.00 | IRWD CHECK | Reconciled |
| 416371 | 11-Mar-21 | CHARLES P CROWLEY COMPANY INC | 24,597.79 | IRWD CHECK | Reconciled |
| 416372 | 11-Mar-21 | CHESHIRE MEDICAL CORPORATION | 265.06 | IRWD CHECK | Reconciled |
| 416373 | 11-Mar-21 | CHO DESIGN ASSOCIATES, INC | 4,605.74 | IRWD CHECK | Reconciled |
| 416374 | 11-Mar-21 | CITY CIRCUIT BREAKERS | 911.47 | IRWD CHECK | Reconciled |
| 416375 | 11-Mar-21 | CITY OF IRVINE | 288.00 | IRWD CHECK | Reconciled |
| 416376 | 11-Mar-21 | CITY OF IRVINE | 14,102.13 | IRWD CHECK | Reconciled |
| 416377 | 11-Mar-21 | CLA-VAL COMPANY | 4,910.48 | IRWD CHECK | Reconciled |
| 416378 | 11-Mar-21 | CLIFFORD MORIYAMA | 4,000.00 | IRWD CHECK | Reconciled |
| 416379 | 11-Mar-21 | CONSOLIDATED ELECTRICAL DISTRIBUTORS, INC | 693.65 | IRWD CHECK | Reconciled |
| 416380 | 11-Mar-21 | CONSTELLATION NEWENERGY, INC. | 53,956.74 | IRWD CHECK | Reconciled |
| 416381 | 11-Mar-21 | COUNTY OF ORANGE | 374.07 | IRWD CHECK | Reconciled |
| 416382 | 11-Mar-21 | D & H WATER SYSTEMS INC. | 12,350.50 | IRWD CHECK | Reconciled |
| 416383 | 11-Mar-21 | DC FROST ASSOCIATES, INC | 854.45 | IRWD CHECK | Reconciled |
| 416384 | 11-Mar-21 | DEMARIA ELECTRIC MOTOR SERVICES, INC. | 1,950.00 | IRWD CHECK | Reconciled |
| 416385 | 11-Mar-21 | DISTRICT ONE WEST, NOVA 158 | 4,380.16 | IRWD CHECK | Negotiable |
| 416386 | 11-Mar-21 | EAGLE PRINT DYNAMICS | 6,236.11 | IRWD CHECK | Reconciled |
| 416387 | 11-Mar-21 | EAST ORANGE COUNTY WATER DISTRICT | 45,262.63 | IRWD CHECK | Reconciled |
| 416388 | 11-Mar-21 | EI&C ENGINEERING INC. | 49,472.00 | IRWD CHECK | Reconciled |
| 416389 | 11-Mar-21 | ENVIRONMENTAL ENGINEERING AND CONTRACTING, INC. | 48,025.00 | IRWD CHECK | Reconciled |
| 416390 | 11-Mar-21 | ENVIRONMENTAL EXPRESS INC | 3,202.30 | IRWD CHECK | Reconciled |
| 416391 | 11-Mar-21 | ENVIRONMENTAL RESOURCE ASSOCIATES | 2,015.53 | IRWD CHECK | Reconciled |
| 416392 | 11-Mar-21 | EQUALTOX, LLC | 5,875.00 | IRWD CHECK | Reconciled |
| 416393 | 11-Mar-21 | FARRELL & ASSOCIATES | 548.15 | IRWD CHECK | Reconciled |
| 416394 | 11-Mar-21 | FEDEX | 465.50 | IRWD CHECK | Reconciled |
| 416395 | 11-Mar-21 | FERGUSON ENTERPRISES, LLC | 5,017.08 | IRWD CHECK | Reconciled |
| 416396 | 11-Mar-21 | FISHER SCIENTIFIC COMPANY LLC | 1,069.67 | IRWD CHECK | Reconciled |
| 416397 | 11-Mar-21 | FLARE INDUSTRIES, LLC | 987.00 | IRWD CHECK | Reconciled |
| 416398 | 11-Mar-21 | FOUGHT, CYNTHIA J. | 2,735.82 | IRWD CHECK | Reconciled |
| 416399 | 11-Mar-21 | FRANCHISE TAX BOARD | 330.00 | IRWD CHECK | Negotiable |
| 416400 | 11-Mar-21 | GCI CONSTRUCTION, INC. | 4,037.50 | IRWD CHECK | Reconciled |
| 416401 | 11-Mar-21 | GI ENDURANT LLC | 32,083.00 | IRWD CHECK | Reconciled |
| 416402 | 11-Mar-21 | GJ AUTOMOTIVE EQUIPMENT CO INC | 344.21 | IRWD CHECK | Reconciled |
| 416403 | 11-Mar-21 | GM SAGER CONSTRUCTION CO,INC. | 3,300.00 | IRWD CHECK | Reconciled |
| 416404 | 11-Mar-21 | GRAINGER | 4,591.86 | IRWD CHECK | Reconciled |
| 416405 | 11-Mar-21 | GRAYBAR ELECTRIC COMPANY | 3,799.70 | IRWD CHECK | Reconciled |
| 416406 | 11-Mar-21 | HABITAT RESTORATION SCIENCES, INC. | 1,072.62 | IRWD CHECK | Reconciled |
| 416407 | 11-Mar-21 | HACH COMPANY | 5,331.43 | IRWD CHECK | Reconciled |
| 416408 | 11-Mar-21 | HAMPTON TEDDER TECHNICAL SERVICES, INC | 5,500.00 | IRWD CHECK | Reconciled |
| 416409 | 11-Mar-21 | HARRINGTON INDUSTRIAL PLASTICS LLC | 29,164.18 | IRWD CHECK | Reconciled |
| 416410 | 11-Mar-21 | HELP/SYSTEMS, LLC | 8,627.73 | IRWD CHECK | Reconciled |
| 416411 | 11-Mar-21 | HELPMATES STAFFING SERVICES | 3,405.40 | IRWD CHECK | Reconciled |
| 416412 | 11-Mar-21 | HERITAGE FIELDS EL TORO, LLC | 642.67 | IRWD CHECK | Negotiable |
| 416413 | 11-Mar-21 | HI-LINE INC | 202.58 | IRWD CHECK | Reconciled |
| 416414 | 11-Mar-21 | HILL BROTHERS CHEMICAL COMPANY | 9,374.98 | IRWD CHECK | Negotiable |
| 416415 | 11-Mar-21 | HOME DEPOT USA INC | 774.05 | IRWD CHECK | Reconciled |
| 416416 | 11-Mar-21 | INDUSTRIAL SCIENTIFIC CORPORATION | 3,499.15 | IRWD CHECK | Reconciled |
| 416417 | 11-Mar-21 | INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS LOCAL 47 | 2,834.56 | IRWD CHECK | Reconciled |
| 416418 | 11-Mar-21 | IRON MOUNTAIN INFORMATION MANAGEMENT INC | 657.02 | IRWD CHECK | Reconciled |
| 416419 | 11-Mar-21 | IRVINE PIPE & SUPPLY INC | 9,367.34 | IRWD CHECK | Reconciled |
| 416420 | 11-Mar-21 | IRVINE UNIFIED SCHOOL DISTRICT | 1,414.33 | IRWD CHECK | Reconciled |
| 416421 | 11-Mar-21 | IRWD-PETTY CASH CUSTODIAN | 425.94 | IRWD CHECK | Reconciled |
| 416422 | 11-Mar-21 | JCI JONES CHEMICALS INC | 5,193.40 | IRWD CHECK | Reconciled |
| 416423 | 11-Mar-21 | JIG CONSULTANTS | 18,280.00 | IRWD CHECK | Negotiable |
| 416424 | 11-Mar-21 | JWC ENVIRONMENTAL INC. | 2,107.62 | IRWD CHECK | Reconciled |
| 416425 | 11-Mar-21 | KAN VENTURES, INC | 13,000.00 | IRWD CHECK | Reconciled |

**IRVINE RANCH WATER DISTRICT
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| 416426 | 11-Mar-21 | KEY INFORMATION SYSTEMS, INC. | 8,200.00 | IRWD CHECK | Reconciled |
| 416427 | 11-Mar-21 | KILL-N-BUGS TERMITE AND PEST CONTROL SERVICES | 4,620.00 | IRWD CHECK | Reconciled |
| 416428 | 11-Mar-21 | KIMBALL MIDWEST | 11,126.39 | IRWD CHECK | Reconciled |
| 416429 | 11-Mar-21 | LANDCARE HOLDINGS, INC. | 5,537.76 | IRWD CHECK | Reconciled |
| 416430 | 11-Mar-21 | LSA ASSOCIATES INC | 10,767.71 | IRWD CHECK | Reconciled |
| 416431 | 11-Mar-21 | LUBRICATION ENGINEERS, INC. | 8,172.84 | IRWD CHECK | Reconciled |
| 416432 | 11-Mar-21 | MAP COMMUNICATIONS, INC. | 4,649.93 | IRWD CHECK | Reconciled |
| 416433 | 11-Mar-21 | MARK ENTERPRISES TECHNOLOGIES LLC | 73,798.64 | IRWD CHECK | Reconciled |
| 416434 | 11-Mar-21 | MARK KADESH | 10,200.00 | IRWD CHECK | Reconciled |
| 416435 | 11-Mar-21 | MC FADDEN-DALE INDUSTRIAL | 375.13 | IRWD CHECK | Reconciled |
| 416436 | 11-Mar-21 | MC MASTER CARR SUPPLY CO | 176.96 | IRWD CHECK | Reconciled |
| 416437 | 11-Mar-21 | MCDUFF, CHRIS | 15,000.00 | IRWD CHECK | Reconciled |
| 416438 | 11-Mar-21 | MCR TECHNOLOGIES INC | 6,334.92 | IRWD CHECK | Reconciled |
| 416439 | 11-Mar-21 | MERRIMAC PETROLEUM, INC. | 49,970.38 | IRWD CHECK | Reconciled |
| 416440 | 11-Mar-21 | MICHAEL BAKER INTERNATIONAL, INC. | 1,913.00 | IRWD CHECK | Reconciled |
| 416441 | 11-Mar-21 | MR CRANE INC | 6,998.40 | IRWD CHECK | Reconciled |
| 416442 | 11-Mar-21 | MRO ELECTRIC & SUPPLY CO. | 6,348.00 | IRWD CHECK | Reconciled |
| 416443 | 11-Mar-21 | MSA SAFETY INCORPORATED | 1,865.47 | IRWD CHECK | Reconciled |
| 416444 | 11-Mar-21 | MUNICIPAL MAINTENANCE EQUIPMENT INC | 26.22 | IRWD CHECK | Reconciled |
| 416445 | 11-Mar-21 | NAAMANI, SHOHRE | 229.88 | IRWD CHECK | Reconciled |
| 416446 | 11-Mar-21 | NATIONAL READY MIXED CONCRETE SALES, LLC | 1,074.69 | IRWD CHECK | Reconciled |
| 416447 | 11-Mar-21 | NIXON-EGLI EQUIPMENT COMPANY INC. | 508.58 | IRWD CHECK | Reconciled |
| 416448 | 11-Mar-21 | O.C. SUPERIOR CUSTOM CLEANING | 792.00 | IRWD CHECK | Negotiable |
| 416449 | 11-Mar-21 | OLIN CORPORATION | 9,853.28 | IRWD CHECK | Reconciled |
| 416450 | 11-Mar-21 | ONESOURCE DISTRIBUTORS LLC | 1,765.99 | IRWD CHECK | Reconciled |
| 416451 | 11-Mar-21 | ORACLE AMERICA, INC. | 192,681.50 | IRWD CHECK | Reconciled |
| 416452 | 11-Mar-21 | ORANGE COAST PLUMBING | 644.74 | IRWD CHECK | Reconciled |
| 416453 | 11-Mar-21 | ORANGE COUNTY AUTO PARTS CO | 837.56 | IRWD CHECK | Reconciled |
| 416454 | 11-Mar-21 | OSTS, INC | 453.75 | IRWD CHECK | Reconciled |
| 416455 | 11-Mar-21 | PACIFIC COAST BOLT CORP | 1,447.54 | IRWD CHECK | Reconciled |
| 416456 | 11-Mar-21 | PACIFIC HYDROTECH CORPORATION | 33,192.73 | IRWD CHECK | Reconciled |
| 416457 | 11-Mar-21 | PACIFIC HYDROTECH CORPORATION | 764,173.80 | IRWD CHECK | Reconciled |
| 416458 | 11-Mar-21 | PACIFIC HYDROTECH CORPORATION | 7,026.95 | IRWD CHECK | Reconciled |
| 416459 | 11-Mar-21 | PAPER DEPOT DOCUMENT DESTRUCTION LLC | 210.00 | IRWD CHECK | Reconciled |
| 416460 | 11-Mar-21 | PARKHOUSE TIRE INC | 4,716.61 | IRWD CHECK | Reconciled |
| 416461 | 11-Mar-21 | PENN ARCHIVE SERVICES | 92.06 | IRWD CHECK | Reconciled |
| 416462 | 11-Mar-21 | PERS LONG TERM CARE | 447.62 | IRWD CHECK | Reconciled |
| 416463 | 11-Mar-21 | PILLSBURY WINTHROP SHAW PITTMAN LLP | 355.00 | IRWD CHECK | Reconciled |
| 416464 | 11-Mar-21 | POLLARDWATER.COM | 1,829.60 | IRWD CHECK | Reconciled |
| 416465 | 11-Mar-21 | PRAXAIR DISTRIBUTION INC | 1,861.82 | IRWD CHECK | Reconciled |
| 416466 | 11-Mar-21 | PREMIER PAVING | 1,679.52 | IRWD CHECK | Reconciled |
| 416467 | 11-Mar-21 | PRIDEMARK CONTRACTORS, INC. | 929.89 | IRWD CHECK | Reconciled |
| 416468 | 11-Mar-21 | PRUDENTIAL OVERALL SUPPLY | 5,822.11 | IRWD CHECK | Reconciled |
| 416469 | 11-Mar-21 | PYRO-COMM SYSTEMS INC | 920.00 | IRWD CHECK | Reconciled |
| 416470 | 11-Mar-21 | QUINTANA, WATTS & HARTMANN, LLC | 5,150.00 | IRWD CHECK | Negotiable |
| 416471 | 11-Mar-21 | RAM AIR ENGINEERING INC | 1,913.90 | IRWD CHECK | Reconciled |
| 416472 | 11-Mar-21 | RED WING SHOE STORE | 195.74 | IRWD CHECK | Reconciled |
| 416473 | 11-Mar-21 | RINCON TRUCK CENTER INC. | 405.89 | IRWD CHECK | Reconciled |
| 416474 | 11-Mar-21 | RLG ENTERPRISES, INC | 820.80 | IRWD CHECK | Reconciled |
| 416475 | 11-Mar-21 | RODNEY HARMSWORTH ASSOCIATES, INC. | 8,370.00 | IRWD CHECK | Reconciled |
| 416476 | 11-Mar-21 | ROSEDALE - RIO BRAVO WATER STORAGE DISTRICT | 22,921.22 | IRWD CHECK | Negotiable |
| 416477 | 11-Mar-21 | SAFECHECKS | 409.23 | IRWD CHECK | Reconciled |
| 416478 | 11-Mar-21 | SANTA ANA BLUE PRINT | 4,168.08 | IRWD CHECK | Reconciled |
| 416479 | 11-Mar-21 | SANTA MARGARITA FORD | 180.48 | IRWD CHECK | Reconciled |
| 416480 | 11-Mar-21 | SECURITAS SECURITY SERVICES USA, INC. | 45,079.46 | IRWD CHECK | Reconciled |
| 416481 | 11-Mar-21 | SHAMROCK SUPPLY CO INC | 269.91 | IRWD CHECK | Reconciled |
| 416482 | 11-Mar-21 | SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT | 1,153.70 | IRWD CHECK | Reconciled |
| 416483 | 11-Mar-21 | SOUTH COAST WATER CO. | 95.00 | IRWD CHECK | Reconciled |
| 416484 | 11-Mar-21 | SOUTHERN CALIFORNIA EDISON COMPANY | 264,162.15 | IRWD CHECK | Reconciled |
| 416485 | 11-Mar-21 | SOUTHERN CALIFORNIA SECURITY CENTERS, INC. | 44.72 | IRWD CHECK | Negotiable |
| 416486 | 11-Mar-21 | SOUTHERN CONTRACTING COMPANY | 88,205.41 | IRWD CHECK | Reconciled |
| 416487 | 11-Mar-21 | SOUTHSIDE TOWING | 600.00 | IRWD CHECK | Reconciled |
| 416488 | 11-Mar-21 | SPARKLETTTS | 216.09 | IRWD CHECK | Reconciled |
| 416489 | 11-Mar-21 | STREAKWAVE WIRELESS, INC. | 1,687.86 | IRWD CHECK | Reconciled |
| 416490 | 11-Mar-21 | SUN, YUTONG | 43.85 | IRWD CHECK | Voided |
| 416491 | 11-Mar-21 | SUSAN A. SIROTA | 4,660.00 | IRWD CHECK | Reconciled |
| 416492 | 11-Mar-21 | TASSIN SCIENTIFIC SERVICES, LLC. | 1,221.69 | IRWD CHECK | Negotiable |

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| 416493 | 11-Mar-21 | THAIYANANTHAN, GOWRIHARAN | 20.36 | IRWD CHECK | Negotiable |
| 416494 | 11-Mar-21 | THE ADT SECURITY CORPORATION | 412.50 | IRWD CHECK | Reconciled |
| 416495 | 11-Mar-21 | THOMPSON & PHIPPS INC | 23,721.49 | IRWD CHECK | Reconciled |
| 416496 | 11-Mar-21 | TROPICAL PLAZA NURSERY INC | 911.94 | IRWD CHECK | Reconciled |
| 416497 | 11-Mar-21 | UL VERIFICATION SERVICES INC. | 48,166.66 | IRWD CHECK | Reconciled |
| 416498 | 11-Mar-21 | UNITED PARCEL SERVICE INC | 262.92 | IRWD CHECK | Reconciled |
| 416499 | 11-Mar-21 | USA WASTE OF CALIFORNIA, INC. | 490.00 | IRWD CHECK | Reconciled |
| 416500 | 11-Mar-21 | VERIZON WIRELESS SERVICES LLC | 621.29 | IRWD CHECK | Negotiable |
| 416501 | 11-Mar-21 | VERTECH INDUSTRIAL SYSTEMS, LLC | 1,263.75 | IRWD CHECK | Reconciled |
| 416502 | 11-Mar-21 | VIDO ARTUKOVICH & SON, INC./VIDMAR, INC. A JV | 17,977.50 | IRWD CHECK | Reconciled |
| 416503 | 11-Mar-21 | VIDO ARTUKOVICH & SON, INC./VIDMAR, INC. A JV | 341,572.50 | IRWD CHECK | Reconciled |
| 416504 | 11-Mar-21 | WASTE MANAGEMENT COLLECTIONS AND RECYCLING, INC. | 3,284.46 | IRWD CHECK | Reconciled |
| 416505 | 11-Mar-21 | WATERSMART SOFTWARE INC | 13,547.23 | IRWD CHECK | Negotiable |
| 416506 | 11-Mar-21 | WAXIE'S ENTERPRISES, INC | 676.92 | IRWD CHECK | Reconciled |
| 416507 | 11-Mar-21 | WEST YOST & ASSOCIATES | 12,521.25 | IRWD CHECK | Reconciled |
| 416508 | 11-Mar-21 | WESTERN AV | 2,208.00 | IRWD CHECK | Reconciled |
| 416509 | 11-Mar-21 | WHEELER, DAVID A | 1,106.88 | IRWD CHECK | Reconciled |
| 416510 | 11-Mar-21 | WOLTERS KLUWER LEGAL & REGULATORY US, A DIVISION OF CCH INCORPORAT | 284.89 | IRWD CHECK | Reconciled |
| 416511 | 11-Mar-21 | WORKFORCE SAFETY LLC | 4,500.00 | IRWD CHECK | Negotiable |
| 416512 | 11-Mar-21 | ZIMA CORPORATION | 178.99 | IRWD CHECK | Reconciled |
| 416513 | 18-Mar-21 | ORANGE COUNTY SANITATION DISTRICT | 96,335.23 | IRWD CHECK | Reconciled |
| 416514 | 18-Mar-21 | ORANGE COUNTY SANITATION DISTRICT | 246,538.66 | IRWD CHECK | Reconciled |
| 416515 | 18-Mar-21 | Breiter, Michelle | 21.40 | IRWD CHECK | Negotiable |
| 416516 | 18-Mar-21 | Cano, Marco T (Marco) | 192.00 | IRWD CHECK | Negotiable |
| 416517 | 18-Mar-21 | Colvin, Todd C (Todd) | 91.00 | IRWD CHECK | Negotiable |
| 416518 | 18-Mar-21 | Ho, Connie | 6.44 | IRWD CHECK | Negotiable |
| 416519 | 18-Mar-21 | Sanchez, George (George) | 192.00 | IRWD CHECK | Negotiable |
| 416520 | 18-Mar-21 | Sciabica, Joseph | 290.00 | IRWD CHECK | Reconciled |
| 416521 | 18-Mar-21 | ABM INDUSTRY GROUPS, LLC | 1,550.00 | IRWD CHECK | Reconciled |
| 416522 | 18-Mar-21 | ABSOLUTE STANDARDS, INC. | 270.00 | IRWD CHECK | Negotiable |
| 416523 | 18-Mar-21 | ACCUSTANDARD INC | 175.19 | IRWD CHECK | Reconciled |
| 416524 | 18-Mar-21 | AECOM TECHNICAL SERVICES, INC. | 22,482.94 | IRWD CHECK | Reconciled |
| 416525 | 18-Mar-21 | AGILENT TECHNOLOGIES, INC. | 321.94 | IRWD CHECK | Reconciled |
| 416526 | 18-Mar-21 | AIR TECHNOLOGY LABORATORIES | 289.00 | IRWD CHECK | Negotiable |
| 416527 | 18-Mar-21 | AIRGAS, INC. | 133.21 | IRWD CHECK | Reconciled |
| 416528 | 18-Mar-21 | ALICE A. HAHS | 2,200.00 | IRWD CHECK | Voided |
| 416529 | 18-Mar-21 | AM CONSERVATION GROUP, INC. | 72.70 | IRWD CHECK | Reconciled |
| 416530 | 18-Mar-21 | AMAZON CAPITAL SERVICES, INC. | 691.07 | IRWD CHECK | Reconciled |
| 416531 | 18-Mar-21 | ANIXTER INC | 71,949.74 | IRWD CHECK | Reconciled |
| 416532 | 18-Mar-21 | ANTHEM BLUE CROSS | 283.41 | IRWD CHECK | Reconciled |
| 416533 | 18-Mar-21 | ASSEMBLED PRODUCTS CORPORATION | 629.36 | IRWD CHECK | Reconciled |
| 416534 | 18-Mar-21 | ASSOCIATION OF CALIFORNIA WATER AGENCIES/JPIA | 38,557.88 | IRWD CHECK | Reconciled |
| 416535 | 18-Mar-21 | ASSOCIATION OF CALIFORNIA WATER AGENCIES/JPIA | 1,108.69 | IRWD CHECK | Reconciled |
| 416536 | 18-Mar-21 | AT&T | 175.14 | IRWD CHECK | Reconciled |
| 416537 | 18-Mar-21 | AT&T | 4,984.36 | IRWD CHECK | Reconciled |
| 416538 | 18-Mar-21 | AT&T | 83.97 | IRWD CHECK | Reconciled |
| 416539 | 18-Mar-21 | ATHENS SERVICES | 7,733.65 | IRWD CHECK | Reconciled |
| 416540 | 18-Mar-21 | ATHENS SERVICES | 1,851.36 | IRWD CHECK | Reconciled |
| 416541 | 18-Mar-21 | AUSTIN HARDWOODS, INC | 294.04 | IRWD CHECK | Reconciled |
| 416542 | 18-Mar-21 | AUTOZONE PARTS, INC. | 625.65 | IRWD CHECK | Negotiable |
| 416543 | 18-Mar-21 | BATTERIES PLUS AND BATTERIES PLUS BULBS | 5,598.92 | IRWD CHECK | Reconciled |
| 416544 | 18-Mar-21 | BATTERY SYSTEMS INC | 1,870.36 | IRWD CHECK | Reconciled |
| 416545 | 18-Mar-21 | BELL TOWER FLORIST & GIFTS | 102.35 | IRWD CHECK | Negotiable |
| 416546 | 18-Mar-21 | BIGWIG MONSTER, LLC | 2,700.00 | IRWD CHECK | Negotiable |
| 416547 | 18-Mar-21 | BIOMAGIC INC | 2,479.12 | IRWD CHECK | Negotiable |
| 416548 | 18-Mar-21 | BIOTAGE LLC | 3,948.00 | IRWD CHECK | Reconciled |
| 416549 | 18-Mar-21 | BLUEBEAM, INC | 3,278.00 | IRWD CHECK | Reconciled |
| 416550 | 18-Mar-21 | BORCHARD SURVEYING & MAPPING, INC. | 2,470.00 | IRWD CHECK | Negotiable |
| 416551 | 18-Mar-21 | BRIGHTVIEW LANDSCAPE SERVICES, INC. | 2,978.65 | IRWD CHECK | Reconciled |
| 416552 | 18-Mar-21 | BRUCE HADLEY NEWELL | 1,250.00 | IRWD CHECK | Negotiable |
| 416553 | 18-Mar-21 | BSI SERVICES AND SOLUTIONS (WEST) INC. | 41,125.00 | IRWD CHECK | Reconciled |
| 416554 | 18-Mar-21 | BURKE, WILLIAMS & SORENSEN, LLP | 1,397.50 | IRWD CHECK | Reconciled |
| 416555 | 18-Mar-21 | C WELLS PIPELINE MATERIALS INC | 21,966.70 | IRWD CHECK | Negotiable |
| 416556 | 18-Mar-21 | CALIFORNIA BANK & TRUST | 22,487.92 | IRWD CHECK | Reconciled |
| 416557 | 18-Mar-21 | CALIFORNIA BARRICADE RENTAL, INC. | 17,235.00 | IRWD CHECK | Reconciled |
| 416558 | 18-Mar-21 | CANON FINANCIAL SERVICES, INC | 8,343.52 | IRWD CHECK | Reconciled |
| 416559 | 18-Mar-21 | CAROLLO ENGINEERS, INC | 6,771.00 | IRWD CHECK | Reconciled |

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| 416560 | 18-Mar-21 | CEM CORPORATION | 1,338.00 | IRWD CHECK | Reconciled |
| 416561 | 18-Mar-21 | CHEM SERVICE INC. | 104.30 | IRWD CHECK | Reconciled |
| 416562 | 18-Mar-21 | CITY OF IRVINE | 974.00 | IRWD CHECK | Negotiable |
| 416563 | 18-Mar-21 | CJW CONSTRUCTION, INC. | 3,833.71 | IRWD CHECK | Negotiable |
| 416564 | 18-Mar-21 | CLARIS STRATEGY INC. | 787.50 | IRWD CHECK | Reconciled |
| 416565 | 18-Mar-21 | CONSTELLATION NEWENERGY, INC. | 53,914.04 | IRWD CHECK | Negotiable |
| 416566 | 18-Mar-21 | COUNTY OF ORANGE | 64.72 | IRWD CHECK | Reconciled |
| 416567 | 18-Mar-21 | CR & R INCORPORATED | 428.34 | IRWD CHECK | Reconciled |
| 416568 | 18-Mar-21 | DCS MANAGEMENT LLC | 64.29 | IRWD CHECK | Reconciled |
| 416569 | 18-Mar-21 | DELL MARKETING LP | 116,787.85 | IRWD CHECK | Reconciled |
| 416570 | 18-Mar-21 | DIVERSIFIED COMMUNICATIONS SERVICES, INC. | 12,913.64 | IRWD CHECK | Reconciled |
| 416571 | 18-Mar-21 | DWYER INSTRUMENTS INC | 1,112.07 | IRWD CHECK | Reconciled |
| 416572 | 18-Mar-21 | EATON CORPORATION | 6,730.00 | IRWD CHECK | Reconciled |
| 416573 | 18-Mar-21 | EMD MILLIPORE CORPORATION | 2,088.13 | IRWD CHECK | Reconciled |
| 416574 | 18-Mar-21 | ENVIRONMENTAL EXPRESS INC | 1,006.16 | IRWD CHECK | Reconciled |
| 416575 | 18-Mar-21 | EUROFINS CALSCIENCE, LLC | 2,058.00 | IRWD CHECK | Negotiable |
| 416576 | 18-Mar-21 | EVERETT DOREY LLP | 14,259.35 | IRWD CHECK | Reconciled |
| 416577 | 18-Mar-21 | EXECUTIVE LIGHTING & ELECTRIC | 396.17 | IRWD CHECK | Reconciled |
| 416578 | 18-Mar-21 | FEDEX | 291.55 | IRWD CHECK | Reconciled |
| 416579 | 18-Mar-21 | FIRE EXTINGUISHING SAFETY & SERVICE | 815.05 | IRWD CHECK | Reconciled |
| 416580 | 18-Mar-21 | FISHER SCIENTIFIC COMPANY LLC | 1,532.54 | IRWD CHECK | Reconciled |
| 416581 | 18-Mar-21 | FLARE INDUSTRIES, LLC | 188,709.82 | IRWD CHECK | Negotiable |
| 416582 | 18-Mar-21 | FLEET SOLUTIONS LLC | 1,603.86 | IRWD CHECK | Reconciled |
| 416583 | 18-Mar-21 | FLUME, INC. | 5,027.82 | IRWD CHECK | Reconciled |
| 416584 | 18-Mar-21 | FOOTHILL/EASTERN TRANSPORTATION | 4,650.00 | IRWD CHECK | Negotiable |
| 416585 | 18-Mar-21 | FRONTIER CALIFORNIA INC. | 354.77 | IRWD CHECK | Reconciled |
| 416586 | 18-Mar-21 | GANAHL LUMBER CO. | 3,037.83 | IRWD CHECK | Negotiable |
| 416587 | 18-Mar-21 | GARZA INDUSTRIES, INC | 1,098.40 | IRWD CHECK | Reconciled |
| 416588 | 18-Mar-21 | GEOPENTECH, INC. | 2,475.00 | IRWD CHECK | Negotiable |
| 416589 | 18-Mar-21 | GEORGE HILLS COMPANY, INC. | 180.00 | IRWD CHECK | Negotiable |
| 416590 | 18-Mar-21 | GERACI, BRIAN | 3,733.97 | IRWD CHECK | Negotiable |
| 416591 | 18-Mar-21 | GHAJ, ASTHA | 1,213.30 | IRWD CHECK | Negotiable |
| 416592 | 18-Mar-21 | GORFU, IASU | 1,949.36 | IRWD CHECK | Reconciled |
| 416593 | 18-Mar-21 | GRAINGER | 24,336.09 | IRWD CHECK | Reconciled |
| 416594 | 18-Mar-21 | GRAYBAR ELECTRIC COMPANY | 6,355.01 | IRWD CHECK | Reconciled |
| 416595 | 18-Mar-21 | GSRP ST SOLAR I LLC | 11,636.54 | IRWD CHECK | Reconciled |
| 416596 | 18-Mar-21 | HAAKER EQUIPMENT COMPANY | 227.63 | IRWD CHECK | Reconciled |
| 416597 | 18-Mar-21 | HATHAWAY DINWIDDIE | 1,533.00 | IRWD CHECK | Negotiable |
| 416598 | 18-Mar-21 | HDR ENGINEERING INC | 50,769.50 | IRWD CHECK | Reconciled |
| 416599 | 18-Mar-21 | HELIX ENVIRONMENTAL PLANNING, INC. | 3,570.00 | IRWD CHECK | Reconciled |
| 416600 | 18-Mar-21 | HELPMATES STAFFING SERVICES | 10,560.93 | IRWD CHECK | Reconciled |
| 416601 | 18-Mar-21 | HI-LINE INC | 534.97 | IRWD CHECK | Reconciled |
| 416602 | 18-Mar-21 | HILL BROTHERS CHEMICAL COMPANY | 2,175.00 | IRWD CHECK | Negotiable |
| 416603 | 18-Mar-21 | HOFFMEYER COMPANY INC. | 2,970.46 | IRWD CHECK | Reconciled |
| 416604 | 18-Mar-21 | HOME DEPOT USA INC | 1,325.73 | IRWD CHECK | Negotiable |
| 416605 | 18-Mar-21 | HOYA OPTICAL LABS OF AMERICA, INC. | 437.00 | IRWD CHECK | Reconciled |
| 416606 | 18-Mar-21 | IMPERIAL SPRINKLER SUPPLY, INC. | 115.20 | IRWD CHECK | Reconciled |
| 416607 | 18-Mar-21 | INDUSTRIAL METAL SUPPLY CO | 228.80 | IRWD CHECK | Reconciled |
| 416608 | 18-Mar-21 | INFOSEND, INC. | 44,606.35 | IRWD CHECK | Reconciled |
| 416609 | 18-Mar-21 | IRVINE PIPE & SUPPLY INC | 4,113.34 | IRWD CHECK | Reconciled |
| 416610 | 18-Mar-21 | JABRE CONTRACTING INC. | 1,631.18 | IRWD CHECK | Reconciled |
| 416611 | 18-Mar-21 | JADE JEFFRIES SMITH | 2,000.00 | IRWD CHECK | Reconciled |
| 416612 | 18-Mar-21 | JCI JONES CHEMICALS INC | 5,722.88 | IRWD CHECK | Reconciled |
| 416613 | 18-Mar-21 | JIANG, BIN | 1,022.33 | IRWD CHECK | Negotiable |
| 416614 | 18-Mar-21 | KENT DAHLBERG | 46,272.83 | IRWD CHECK | Negotiable |
| 416615 | 18-Mar-21 | LA HABRA FENCE COMPANY INC | 3,353.00 | IRWD CHECK | Negotiable |
| 416616 | 18-Mar-21 | LAKHANI, SAHIR | 262.34 | IRWD CHECK | Negotiable |
| 416617 | 18-Mar-21 | LANDCARE HOLDINGS, INC. | 2,918.49 | IRWD CHECK | Reconciled |
| 416618 | 18-Mar-21 | LCS TECHNOLOGIES, INC. | 4,320.00 | IRWD CHECK | Negotiable |
| 416619 | 18-Mar-21 | LILLESTRAND LEADERSHIP CONSULTING, INC. | 1,320.00 | IRWD CHECK | Negotiable |
| 416620 | 18-Mar-21 | LINDSAY POLIC CONSULTING, INC. | 8,000.00 | IRWD CHECK | Reconciled |
| 416621 | 18-Mar-21 | MATT CONSTRUCTION CORPORATION | 2,656.05 | IRWD CHECK | Reconciled |
| 416622 | 18-Mar-21 | MC FADDEN-DALE INDUSTRIAL | 73.12 | IRWD CHECK | Reconciled |
| 416623 | 18-Mar-21 | MCDONALD, ANNA | 187.46 | IRWD CHECK | Negotiable |
| 416624 | 18-Mar-21 | METTLER-TOLEDO INC | 1,601.70 | IRWD CHECK | Reconciled |
| 416625 | 18-Mar-21 | METTLER-TOLEDO RAININ, LLC | 3,515.63 | IRWD CHECK | Reconciled |
| 416626 | 18-Mar-21 | MRO ELECTRIC & SUPPLY CO. | 2,731.00 | IRWD CHECK | Negotiable |

**IRVINE RANCH WATER DISTRICT
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| CHECK OR ELECTRONIC # | PAYMENT DATE | SUPPLIERS | PAYMENT AMOUNT | PAYMENT METHOD | STATUS |
|----------------------------------|-------------------------|--|-----------------------|---------------------------|---------------|
| 416627 | 18-Mar-21 | MUTUAL PROPANE | 237.26 | IRWD CHECK | Reconciled |
| 416628 | 18-Mar-21 | O.C. SUPERIOR CUSTOM CLEANING | 3,600.00 | IRWD CHECK | Reconciled |
| 416629 | 18-Mar-21 | OLIN CORPORATION | 20,212.10 | IRWD CHECK | Reconciled |
| 416630 | 18-Mar-21 | OLSON REMCHO LLP | 13.00 | IRWD CHECK | Reconciled |
| 416631 | 18-Mar-21 | ONESOURCE DISTRIBUTORS LLC | 827.33 | IRWD CHECK | Reconciled |
| 416632 | 18-Mar-21 | ORACLE AMERICA, INC. | 32,876.09 | IRWD CHECK | Reconciled |
| 416633 | 18-Mar-21 | ORANGE COUNTY AUTO PARTS CO | 1,885.38 | IRWD CHECK | Reconciled |
| 416634 | 18-Mar-21 | ORANGE COUNTY COASTKEEPER | 1,000.00 | IRWD CHECK | Negotiable |
| 416635 | 18-Mar-21 | ORANGE COUNTY FIRE PROTECTION | 795.85 | IRWD CHECK | Reconciled |
| 416636 | 18-Mar-21 | ORIGIN CONSULTING LLC | 3,222.00 | IRWD CHECK | Negotiable |
| 416637 | 18-Mar-21 | PACIFIC PARTS & CONTROLS INC | 75.96 | IRWD CHECK | Reconciled |
| 416638 | 18-Mar-21 | PARK, ANDREW | 3.82 | IRWD CHECK | Negotiable |
| 416639 | 18-Mar-21 | PARKHOUSE TIRE INC | 393.89 | IRWD CHECK | Reconciled |
| 416640 | 18-Mar-21 | PAULUS ENGINEERING, INC. | 18,400.00 | IRWD CHECK | Negotiable |
| 416641 | 18-Mar-21 | PAYNE & FEARS LLP | 3,388.00 | IRWD CHECK | Reconciled |
| 416642 | 18-Mar-21 | PERKINELMER HEALTH SCIENCES INC | 3,524.21 | IRWD CHECK | Reconciled |
| 416643 | 18-Mar-21 | PLUMBERS DEPOT INC. | 469.91 | IRWD CHECK | Negotiable |
| 416644 | 18-Mar-21 | PRAXAIR DISTRIBUTION INC | 4,250.00 | IRWD CHECK | Reconciled |
| 416645 | 18-Mar-21 | PUB CONSTRUCTION | 1,786.33 | IRWD CHECK | Reconciled |
| 416646 | 18-Mar-21 | R.F. MACDONALD CO. | 800.00 | IRWD CHECK | Reconciled |
| 416647 | 18-Mar-21 | RAM AIR ENGINEERING INC | 505.66 | IRWD CHECK | Reconciled |
| 416648 | 18-Mar-21 | RDM GENERAL CONTRACTORS | 1,203.70 | IRWD CHECK | Reconciled |
| 416649 | 18-Mar-21 | RED WING SHOE STORE | 200.00 | IRWD CHECK | Reconciled |
| 416650 | 18-Mar-21 | REFRIGERATION SUPPLIES DISTRIBUTOR | 425.66 | IRWD CHECK | Reconciled |
| 416651 | 18-Mar-21 | RENTOKIL NORTH AMERICA, INC | 5,298.00 | IRWD CHECK | Negotiable |
| 416652 | 18-Mar-21 | RINCON TRUCK CENTER INC. | 343.29 | IRWD CHECK | Reconciled |
| 416653 | 18-Mar-21 | RJ NOBLE | 1,238.65 | IRWD CHECK | Reconciled |
| 416654 | 18-Mar-21 | RLG ENTERPRISES, INC | 431.92 | IRWD CHECK | Reconciled |
| 416655 | 18-Mar-21 | ROSE PAVING LLC | 18,076.00 | IRWD CHECK | Reconciled |
| 416656 | 18-Mar-21 | S&S SEEDS INC | 1,579.13 | IRWD CHECK | Reconciled |
| 416657 | 18-Mar-21 | SAFETY-KLEEN SYSTEMS, INC | 320.00 | IRWD CHECK | Reconciled |
| 416658 | 18-Mar-21 | SANTA MARGARITA FORD | 1,433.06 | IRWD CHECK | Reconciled |
| 416659 | 18-Mar-21 | SEAL ANALYTICAL INC | 1,686.92 | IRWD CHECK | Reconciled |
| 416660 | 18-Mar-21 | SERRANO WATER DISTRICT | 17,853.37 | IRWD CHECK | Reconciled |
| 416661 | 18-Mar-21 | SHAMROCK SUPPLY CO INC | 837.80 | IRWD CHECK | Reconciled |
| 416662 | 18-Mar-21 | SHEA HOMES LIMITED PARTNERSHIP | 1,409.00 | IRWD CHECK | Negotiable |
| 416663 | 18-Mar-21 | SHOETERIA | 1,065.43 | IRWD CHECK | Negotiable |
| 416664 | 18-Mar-21 | SIGNATURE FLOORING, INC | 1,260.00 | IRWD CHECK | Negotiable |
| 416665 | 18-Mar-21 | SIRIUS COMPUTER SOLUTIONS INC | 74,237.90 | IRWD CHECK | Reconciled |
| 416666 | 18-Mar-21 | SOUTH COAST WATER DISTRICT | 863.00 | IRWD CHECK | Reconciled |
| 416667 | 18-Mar-21 | SOUTHERN CALIFORNIA EDISON COMPANY | 178,672.82 | IRWD CHECK | Negotiable |
| 416668 | 18-Mar-21 | SOUTHERN CALIFORNIA GAS COMPANY | 9,947.05 | IRWD CHECK | Negotiable |
| 416669 | 18-Mar-21 | SS MECHANICAL CONSTRUCTION CORP | 45,100.00 | IRWD CHECK | Negotiable |
| 416670 | 18-Mar-21 | STANTEC CONSULTING SERVICES INC. | 3,122.15 | IRWD CHECK | Reconciled |
| 416671 | 18-Mar-21 | STETSON ENGINEERS INC. | 3,040.00 | IRWD CHECK | Reconciled |
| 416672 | 18-Mar-21 | STRADLING YOCCA CARLSON & RAUTH | 252.00 | IRWD CHECK | Reconciled |
| 416673 | 18-Mar-21 | STREAKWAVE WIRELESS, INC. | 1,433.08 | IRWD CHECK | Reconciled |
| 416674 | 18-Mar-21 | SURF CITY OPTOMETRY | 225.00 | IRWD CHECK | Negotiable |
| 416675 | 18-Mar-21 | TALBOTT, RODGER | 665.01 | IRWD CHECK | Reconciled |
| 416676 | 18-Mar-21 | THOMPSON & PHIPPS INC | 14,751.75 | IRWD CHECK | Negotiable |
| 416677 | 18-Mar-21 | TITUS INDUSTRIAL GROUP, INC. | 8,935.56 | IRWD CHECK | Negotiable |
| 416678 | 18-Mar-21 | TOTAL RESOURCE MANAGEMENT, INC | 2,040.00 | IRWD CHECK | Negotiable |
| 416679 | 18-Mar-21 | TRI POINTE HOMES, INC. | 1,265.75 | IRWD CHECK | Negotiable |
| 416680 | 18-Mar-21 | TRIPAC MARKETING INC | 1,149.15 | IRWD CHECK | Reconciled |
| 416681 | 18-Mar-21 | TROPICAL PLAZA NURSERY INC | 62,838.00 | IRWD CHECK | Reconciled |
| 416682 | 18-Mar-21 | UNITED PARCEL SERVICE INC | 177.33 | IRWD CHECK | Reconciled |
| 416683 | 18-Mar-21 | UNITED SITE SERVICES OF CALIFORNIA INC | 405.52 | IRWD CHECK | Reconciled |
| 416684 | 18-Mar-21 | VAUGHAN'S INDUSTRIAL REPAIR CO INC | 5,444.12 | IRWD CHECK | Reconciled |
| 416685 | 18-Mar-21 | VIRTUAL GRAFFITI, INC | 706.81 | IRWD CHECK | Reconciled |
| 416686 | 18-Mar-21 | VULCAN MATERIALS COMPANY | 1,518.49 | IRWD CHECK | Reconciled |
| 416687 | 18-Mar-21 | VWR INTERNATIONAL, LLC | 963.59 | IRWD CHECK | Reconciled |
| 416688 | 18-Mar-21 | WASTE MANAGEMENT COLLECTIONS AND RECYCLING, INC. | 1,629.82 | IRWD CHECK | Reconciled |
| 416689 | 18-Mar-21 | WAXIE'S ENTERPRISES, INC | 741.08 | IRWD CHECK | Reconciled |
| 416690 | 18-Mar-21 | WECK LABORATORIES INC | 649.00 | IRWD CHECK | Negotiable |
| 416691 | 18-Mar-21 | WESTERN NATIONAL CONTRACTORS-LOS OLIVOS II | 1,718.98 | IRWD CHECK | Negotiable |
| 416692 | 18-Mar-21 | WOODARD & CURRAN INC | 26,618.25 | IRWD CHECK | Reconciled |
| 416693 | 18-Mar-21 | WOODBRIIDGE STONEGATE MAIN ASSN | 12,397.39 | IRWD CHECK | Negotiable |

**IRVINE RANCH WATER DISTRICT
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| 416694 | 18-Mar-21 | YANG, WEIJIA | 11.21 | IRWD CHECK | Negotiable |
| 416695 | 18-Mar-21 | YORKE ENGINEERING, LLC | 1,870.50 | IRWD CHECK | Reconciled |
| 416696 | 18-Mar-21 | ALICE A. HAHS | 2,200.00 | IRWD CHECK | Reconciled |
| 416697 | 25-Mar-21 | Bornhoff, Mike (Mike) | 298.00 | IRWD CHECK | Negotiable |
| 416698 | 25-Mar-21 | Burk, Rachael | 180.00 | IRWD CHECK | Negotiable |
| 416699 | 25-Mar-21 | Hall, William P (William) | 80.00 | IRWD CHECK | Negotiable |
| 416700 | 25-Mar-21 | King, Casey (Casey) | 105.00 | IRWD CHECK | Negotiable |
| 416701 | 25-Mar-21 | Kulick, Michael | 337.00 | IRWD CHECK | Negotiable |
| 416702 | 25-Mar-21 | Mori, Richard K (Rich) | 35.00 | IRWD CHECK | Negotiable |
| 416703 | 25-Mar-21 | Phuong, Sophia | 1,820.00 | IRWD CHECK | Negotiable |
| 416704 | 25-Mar-21 | ORANGE COUNTY BUSINESS COUNCIL | 5,000.00 | IRWD CHECK | Negotiable |
| 416705 | 25-Mar-21 | 24 HOUR FITNESS | 382.87 | IRWD CHECK | Negotiable |
| 416706 | 25-Mar-21 | ABM INDUSTRY GROUPS, LLC | 43,513.92 | IRWD CHECK | Negotiable |
| 416707 | 25-Mar-21 | ADAM'S FALCONRY SERVICE, LLC | 1,560.00 | IRWD CHECK | Negotiable |
| 416708 | 25-Mar-21 | AGILENT TECHNOLOGIES, INC. | 279.07 | IRWD CHECK | Negotiable |
| 416709 | 25-Mar-21 | AIRGAS, INC. | 748.13 | IRWD CHECK | Negotiable |
| 416710 | 25-Mar-21 | ALEXANDER'S CONTRACT SERVICES, INC. | 125,308.00 | IRWD CHECK | Negotiable |
| 416711 | 25-Mar-21 | AMAZON CAPITAL SERVICES, INC. | 2,104.20 | IRWD CHECK | Negotiable |
| 416712 | 25-Mar-21 | AMERICAN WATER WORKS ASSOC | 11,268.00 | IRWD CHECK | Negotiable |
| 416713 | 25-Mar-21 | ANDERSONPENNA PARTNERS, INC. | 21,535.00 | IRWD CHECK | Negotiable |
| 416714 | 25-Mar-21 | APEX SYSTEMS, LLC | 2,288.00 | IRWD CHECK | Negotiable |
| 416715 | 25-Mar-21 | APPLIED ENGINEERING CONCEPTS | 1,600.00 | IRWD CHECK | Negotiable |
| 416716 | 25-Mar-21 | AQUA-METRIC SALES COMPANY | 348.49 | IRWD CHECK | Negotiable |
| 416717 | 25-Mar-21 | AT&T | 6,967.96 | IRWD CHECK | Negotiable |
| 416718 | 25-Mar-21 | AUTOZONE PARTS, INC. | 124.98 | IRWD CHECK | Negotiable |
| 416719 | 25-Mar-21 | AZTEC CONTAINER | 12,348.15 | IRWD CHECK | Negotiable |
| 416720 | 25-Mar-21 | BARRY SAYWITZ PROPERTIES, LP | 188.22 | IRWD CHECK | Negotiable |
| 416721 | 25-Mar-21 | BEACHWALK INC | 148.59 | IRWD CHECK | Negotiable |
| 416722 | 25-Mar-21 | BEE EMERGENCY RESPONSE TEAM | 175.00 | IRWD CHECK | Negotiable |
| 416723 | 25-Mar-21 | BRAX COMPANY, INC | 5,506.92 | IRWD CHECK | Negotiable |
| 416724 | 25-Mar-21 | BRENNTAG PACIFIC INC | 21,880.74 | IRWD CHECK | Negotiable |
| 416725 | 25-Mar-21 | BURLINGTON SAFETY LABORATORY OF CALIFORNIA INC | 456.00 | IRWD CHECK | Negotiable |
| 416726 | 25-Mar-21 | C WELLS PIPELINE MATERIALS INC | 36,242.00 | IRWD CHECK | Negotiable |
| 416727 | 25-Mar-21 | CALIFORNIA BARRICADE RENTAL, INC. | 21,519.26 | IRWD CHECK | Negotiable |
| 416728 | 25-Mar-21 | CALIFORNIA GATE AND ENTRY SYSTEMS | 528.23 | IRWD CHECK | Negotiable |
| 416729 | 25-Mar-21 | CALIFORNIA PACIFIC HOMES | 51.86 | IRWD CHECK | Negotiable |
| 416730 | 25-Mar-21 | CANON SOLUTIONS AMERICA, INC. | 66.48 | IRWD CHECK | Negotiable |
| 416731 | 25-Mar-21 | CAREERS IN GOVERNMENT, INC. | 2,700.00 | IRWD CHECK | Negotiable |
| 416732 | 25-Mar-21 | CAROLLO ENGINEERS, INC | 35,258.50 | IRWD CHECK | Negotiable |
| 416733 | 25-Mar-21 | CEDAR CREEK APARTMENTS | 32.81 | IRWD CHECK | Negotiable |
| 416734 | 25-Mar-21 | CHARLES P CROWLEY COMPANY INC | 4,126.40 | IRWD CHECK | Negotiable |
| 416735 | 25-Mar-21 | CHEM TECH INTERNATIONAL INC | 8,452.50 | IRWD CHECK | Negotiable |
| 416736 | 25-Mar-21 | CITY OF NEWPORT BEACH | 1,828.02 | IRWD CHECK | Negotiable |
| 416737 | 25-Mar-21 | CITY OF SANTA ANA | 154.65 | IRWD CHECK | Negotiable |
| 416738 | 25-Mar-21 | CITY OF TUSTIN | 976.24 | IRWD CHECK | Negotiable |
| 416739 | 25-Mar-21 | CLA-VAL COMPANY | 3,152.60 | IRWD CHECK | Negotiable |
| 416740 | 25-Mar-21 | COASTLINE EQUIPMENT COMPANY | 969.46 | IRWD CHECK | Negotiable |
| 416741 | 25-Mar-21 | CONSOLIDATED ELECTRICAL DISTRIBUTORS, INC | 331.16 | IRWD CHECK | Negotiable |
| 416742 | 25-Mar-21 | CONSTELLATION NEWENERGY, INC. | 29,823.68 | IRWD CHECK | Negotiable |
| 416743 | 25-Mar-21 | COUNTY OF ORANGE | 47,920.69 | IRWD CHECK | Negotiable |
| 416744 | 25-Mar-21 | COUNTY OF ORANGE | 4,679.50 | IRWD CHECK | Negotiable |
| 416745 | 25-Mar-21 | COX COMMUNICATIONS, INC. | 3,261.96 | IRWD CHECK | Negotiable |
| 416746 | 25-Mar-21 | CROSS CREEK APTS | 100.85 | IRWD CHECK | Negotiable |
| 416747 | 25-Mar-21 | CROWN CASTLE INTERNATIONAL CORP. | 810.35 | IRWD CHECK | Negotiable |
| 416748 | 25-Mar-21 | CULLIGAN OF SANTA ANA | 20,000.00 | IRWD CHECK | Negotiable |
| 416749 | 25-Mar-21 | D & H WATER SYSTEMS INC. | 202.11 | IRWD CHECK | Negotiable |
| 416750 | 25-Mar-21 | DARRELL D. WRIGHT | 500.00 | IRWD CHECK | Negotiable |
| 416751 | 25-Mar-21 | DATA CLEAN CORPORATION | 559.00 | IRWD CHECK | Negotiable |
| 416752 | 25-Mar-21 | DENALI WATER SOLUTIONS LLC | 7,158.80 | IRWD CHECK | Negotiable |
| 416753 | 25-Mar-21 | DILYTICS INC | 2,250.00 | IRWD CHECK | Negotiable |
| 416754 | 25-Mar-21 | DIRECTV INC | 153.99 | IRWD CHECK | Negotiable |
| 416755 | 25-Mar-21 | DOMBROWSKI, PHIL | 34.20 | IRWD CHECK | Negotiable |
| 416756 | 25-Mar-21 | DUDEK | 12,464.38 | IRWD CHECK | Negotiable |
| 416757 | 25-Mar-21 | EHS INTERNATIONAL, INC | 1,840.00 | IRWD CHECK | Negotiable |
| 416758 | 25-Mar-21 | ENVIRONMENTAL RESOURCE ASSOCIATES | 139.17 | IRWD CHECK | Negotiable |
| 416759 | 25-Mar-21 | EUROFINS CALSCIENCE, LLC | 4,289.25 | IRWD CHECK | Negotiable |
| 416760 | 25-Mar-21 | FERGUSON ENTERPRISES, LLC | 1,813.89 | IRWD CHECK | Negotiable |

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| 416761 | 25-Mar-21 | FISHER SCIENTIFIC COMPANY LLC | 1,806.67 | IRWD CHECK | Negotiable |
| 416762 | 25-Mar-21 | FLARE INDUSTRIES, LLC | 2,505.65 | IRWD CHECK | Negotiable |
| 416763 | 25-Mar-21 | FLW, INC. | 894.98 | IRWD CHECK | Negotiable |
| 416764 | 25-Mar-21 | FRANCHISE TAX BOARD | 330.00 | IRWD CHECK | Negotiable |
| 416765 | 25-Mar-21 | FRONTIER CALIFORNIA INC. | 337.70 | IRWD CHECK | Negotiable |
| 416766 | 25-Mar-21 | FUSCOE ENGINEERING, INC. | 7,773.75 | IRWD CHECK | Negotiable |
| 416767 | 25-Mar-21 | GALLADE CHEMICAL INC | 1,680.90 | IRWD CHECK | Negotiable |
| 416768 | 25-Mar-21 | GANAHL LUMBER CO. | 2,682.98 | IRWD CHECK | Negotiable |
| 416769 | 25-Mar-21 | GI ENDURANT LLC | 32,083.00 | IRWD CHECK | Negotiable |
| 416770 | 25-Mar-21 | GODIN, KRISTA | 549.28 | IRWD CHECK | Negotiable |
| 416771 | 25-Mar-21 | GRAINGER | 7,892.57 | IRWD CHECK | Negotiable |
| 416772 | 25-Mar-21 | GRANICUS, LLC | 640.00 | IRWD CHECK | Negotiable |
| 416773 | 25-Mar-21 | GRAYBAR ELECTRIC COMPANY | 26,637.74 | IRWD CHECK | Negotiable |
| 416774 | 25-Mar-21 | GREGG DRILLING LLC | 1,678.57 | IRWD CHECK | Negotiable |
| 416775 | 25-Mar-21 | HAAKER EQUIPMENT COMPANY | 2,769.82 | IRWD CHECK | Negotiable |
| 416776 | 25-Mar-21 | HACH COMPANY | 428.82 | IRWD CHECK | Negotiable |
| 416777 | 25-Mar-21 | HADRONEX, INC. | 383.99 | IRWD CHECK | Negotiable |
| 416778 | 25-Mar-21 | HAMILTON, KURT | 511.87 | IRWD CHECK | Negotiable |
| 416779 | 25-Mar-21 | HANSON BRIDGETT LLP | 54,856.35 | IRWD CHECK | Negotiable |
| 416780 | 25-Mar-21 | HARPER & ASSOCIATES ENGINEERING INC | 750.00 | IRWD CHECK | Negotiable |
| 416781 | 25-Mar-21 | HAZEN AND SAWYER | 24,635.00 | IRWD CHECK | Negotiable |
| 416782 | 25-Mar-21 | HDR ENGINEERING INC | 30,234.00 | IRWD CHECK | Negotiable |
| 416783 | 25-Mar-21 | HELPMATES STAFFING SERVICES | 2,650.40 | IRWD CHECK | Negotiable |
| 416784 | 25-Mar-21 | HERITAGE FIELDS EL TORO, LLC | 1,119.93 | IRWD CHECK | Negotiable |
| 416785 | 25-Mar-21 | HI-LINE INC | 199.61 | IRWD CHECK | Negotiable |
| 416786 | 25-Mar-21 | HILL BROTHERS CHEMICAL COMPANY | 12,848.27 | IRWD CHECK | Negotiable |
| 416787 | 25-Mar-21 | HOME DEPOT USA INC | 662.55 | IRWD CHECK | Negotiable |
| 416788 | 25-Mar-21 | IMPRENTA COMMUNICATIONS GROUP, INC. | 3,000.00 | IRWD CHECK | Negotiable |
| 416789 | 25-Mar-21 | INDUSTRIAL SCIENTIFIC CORPORATION | 2,772.03 | IRWD CHECK | Negotiable |
| 416790 | 25-Mar-21 | INTEGRITY MUNICIPAL SERVICES LLC | 2,500.00 | IRWD CHECK | Negotiable |
| 416791 | 25-Mar-21 | INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS LOCAL 47 | 2,875.48 | IRWD CHECK | Negotiable |
| 416792 | 25-Mar-21 | IRVINE MONTESSORI | 1,792.36 | IRWD CHECK | Negotiable |
| 416793 | 25-Mar-21 | IRVINE PIPE & SUPPLY INC | 2,259.21 | IRWD CHECK | Negotiable |
| 416794 | 25-Mar-21 | JUST ENERGY SOLUTIONS INC. | 1,999.71 | IRWD CHECK | Negotiable |
| 416795 | 25-Mar-21 | JW CONGREGATION SUPPORT INC | 1,476.33 | IRWD CHECK | Negotiable |
| 416796 | 25-Mar-21 | KENT DAHLBERG | 14,550.87 | IRWD CHECK | Negotiable |
| 416797 | 25-Mar-21 | KONECRANES INC | 9,187.50 | IRWD CHECK | Negotiable |
| 416798 | 25-Mar-21 | LANDCARE HOLDINGS, INC. | 5,205.40 | IRWD CHECK | Negotiable |
| 416799 | 25-Mar-21 | LEE & RO, INC. | 10,523.41 | IRWD CHECK | Negotiable |
| 416800 | 25-Mar-21 | LEE, BRIAN | 154.04 | IRWD CHECK | Negotiable |
| 416801 | 25-Mar-21 | LENNAR HOMES OF CALIFORNIA, INC. | 367,471.23 | IRWD CHECK | Negotiable |
| 416802 | 25-Mar-21 | LILLESTRAND LEADERSHIP CONSULTING, INC. | 1,320.00 | IRWD CHECK | Negotiable |
| 416803 | 25-Mar-21 | LOUNG, LE T | 10,000.00 | IRWD CHECK | Negotiable |
| 416804 | 25-Mar-21 | LSA ASSOCIATES INC | 7,480.00 | IRWD CHECK | Negotiable |
| 416805 | 25-Mar-21 | LU'S LIGHTHOUSE, INC. | 1,283.56 | IRWD CHECK | Negotiable |
| 416806 | 25-Mar-21 | LUBRICATION ENGINEERS, INC. | 1,046.66 | IRWD CHECK | Negotiable |
| 416807 | 25-Mar-21 | MATT CONSTRUCTION CORPORATION | 1,919.25 | IRWD CHECK | Negotiable |
| 416808 | 25-Mar-21 | MBC AQUATIC SCIENCES, INC. | 750.00 | IRWD CHECK | Negotiable |
| 416809 | 25-Mar-21 | MC FADDEN-DALE INDUSTRIAL | 95.92 | IRWD CHECK | Negotiable |
| 416810 | 25-Mar-21 | MC MASTER CARR SUPPLY CO | 648.67 | IRWD CHECK | Negotiable |
| 416811 | 25-Mar-21 | MCCLAINS FURNITURE | 5,115.00 | IRWD CHECK | Negotiable |
| 416812 | 25-Mar-21 | MCR TECHNOLOGIES INC | 12,440.58 | IRWD CHECK | Negotiable |
| 416813 | 25-Mar-21 | MERRIMAC PETROLEUM, INC. | 26,886.61 | IRWD CHECK | Negotiable |
| 416814 | 25-Mar-21 | MICROSOFT CORPORATION | 497.89 | IRWD CHECK | Negotiable |
| 416815 | 25-Mar-21 | MILLWORKSOC | 500.00 | IRWD CHECK | Negotiable |
| 416816 | 25-Mar-21 | MISSION COMMUNICATIONS, LLC | 1,126.80 | IRWD CHECK | Negotiable |
| 416817 | 25-Mar-21 | MRO ELECTRIC & SUPPLY CO. | 10,123.00 | IRWD CHECK | Negotiable |
| 416818 | 25-Mar-21 | MUTUAL PROPANE | 27.00 | IRWD CHECK | Negotiable |
| 416819 | 25-Mar-21 | NATIONAL READY MIXED CONCRETE SALES, LLC | 455.80 | IRWD CHECK | Negotiable |
| 416820 | 25-Mar-21 | NEILSON CONSTRUCTION INC | 921.61 | IRWD CHECK | Negotiable |
| 416821 | 25-Mar-21 | NOVACOAST INC | 3,200.00 | IRWD CHECK | Negotiable |
| 416822 | 25-Mar-21 | NRD, LLC | 100.00 | IRWD CHECK | Negotiable |
| 416823 | 25-Mar-21 | NV5, INC. | 24,640.00 | IRWD CHECK | Negotiable |
| 416824 | 25-Mar-21 | OCEAN BLUE ENVIRONMENTAL SERVICES INC | 5,247.47 | IRWD CHECK | Negotiable |
| 416825 | 25-Mar-21 | OLIN CORPORATION | 40,015.89 | IRWD CHECK | Negotiable |
| 416826 | 25-Mar-21 | ONESOURCE DISTRIBUTORS LLC | 1,206.00 | IRWD CHECK | Negotiable |
| 416827 | 25-Mar-21 | ORANGE COUNTY AUTO PARTS CO | 1,238.85 | IRWD CHECK | Negotiable |

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| 416828 | 25-Mar-21 | ORANGE COUNTY HOSE | 889.00 | IRWD CHECK | Negotiable |
| 416829 | 25-Mar-21 | ORANGE COUNTY SANITATION DISTRICT | 6,630.00 | IRWD CHECK | Negotiable |
| 416830 | 25-Mar-21 | OWNING CORPORATION | 52.00 | IRWD CHECK | Negotiable |
| 416831 | 25-Mar-21 | PACRIM ENGINEERING INC. | 945.00 | IRWD CHECK | Negotiable |
| 416832 | 25-Mar-21 | PARKHOUSE TIRE INC | 1,373.92 | IRWD CHECK | Negotiable |
| 416833 | 25-Mar-21 | PAULUS ENGINEERING INC | 4,500.00 | IRWD CHECK | Negotiable |
| 416834 | 25-Mar-21 | PELLETIER & ASSOCIATES, INC. | 1,050.00 | IRWD CHECK | Negotiable |
| 416835 | 25-Mar-21 | PERS LONG TERM CARE | 447.62 | IRWD CHECK | Negotiable |
| 416836 | 25-Mar-21 | PHETCHARAT, NORA | 232.66 | IRWD CHECK | Negotiable |
| 416837 | 25-Mar-21 | PING, AN | 183.76 | IRWD CHECK | Negotiable |
| 416838 | 25-Mar-21 | PRAXAIR DISTRIBUTION INC | 349.62 | IRWD CHECK | Negotiable |
| 416839 | 25-Mar-21 | PRUDENTIAL OVERALL SUPPLY | 6,896.53 | IRWD CHECK | Negotiable |
| 416840 | 25-Mar-21 | PSOMAS | 3,689.75 | IRWD CHECK | Negotiable |
| 416841 | 25-Mar-21 | PTI SAND & GRAVEL INC | 1,937.93 | IRWD CHECK | Negotiable |
| 416842 | 25-Mar-21 | PYRO-COMM SYSTEMS INC | 1,970.08 | IRWD CHECK | Negotiable |
| 416843 | 25-Mar-21 | RAM AIR ENGINEERING INC | 19,027.67 | IRWD CHECK | Negotiable |
| 416844 | 25-Mar-21 | RAMIREZ, MARISOL | 2,800.00 | IRWD CHECK | Negotiable |
| 416845 | 25-Mar-21 | RED WING SHOE STORE | 1,083.16 | IRWD CHECK | Negotiable |
| 416846 | 25-Mar-21 | RESTEK CORPORATION | 179.60 | IRWD CHECK | Negotiable |
| 416847 | 25-Mar-21 | REYES, MARK | 15.23 | IRWD CHECK | Negotiable |
| 416848 | 25-Mar-21 | RICHMOND AMERICAN HOMES OF MARYLAND, INC | 65.34 | IRWD CHECK | Negotiable |
| 416849 | 25-Mar-21 | RINCON TRUCK CENTER INC. | 89.64 | IRWD CHECK | Negotiable |
| 416850 | 25-Mar-21 | ROSEDALE - RIO BRAVO WATER STORAGE DISTRICT | 667.68 | IRWD CHECK | Negotiable |
| 416851 | 25-Mar-21 | ROSEMOUNT INC. | 5,681.60 | IRWD CHECK | Negotiable |
| 416852 | 25-Mar-21 | RTM ENGINEERING CONSULTANTS, LLC | 1,533.00 | IRWD CHECK | Negotiable |
| 416853 | 25-Mar-21 | SAN CARLO APARTMENTS | 38.96 | IRWD CHECK | Negotiable |
| 416854 | 25-Mar-21 | SANTA ANA BLUE PRINT | 284.40 | IRWD CHECK | Negotiable |
| 416855 | 25-Mar-21 | SANTA MARGARITA FORD | 242.44 | IRWD CHECK | Negotiable |
| 416856 | 25-Mar-21 | SCHINDLER ELEVATOR CORPORATION | 229.11 | IRWD CHECK | Negotiable |
| 416857 | 25-Mar-21 | SHAMROCK SUPPLY CO INC | 1,046.56 | IRWD CHECK | Negotiable |
| 416858 | 25-Mar-21 | SHOFFEITT PIPELINE | 2,600.00 | IRWD CHECK | Negotiable |
| 416859 | 25-Mar-21 | SILVER ROCK REALTY, LLC | 50.55 | IRWD CHECK | Negotiable |
| 416860 | 25-Mar-21 | SO CAL SANDBAGS, INC. | 1,314.00 | IRWD CHECK | Negotiable |
| 416861 | 25-Mar-21 | SOUTHERN CALIFORNIA EDISON COMPANY | 38.60 | IRWD CHECK | Negotiable |
| 416862 | 25-Mar-21 | SOUTHERN CALIFORNIA EDISON COMPANY | 69,755.45 | IRWD CHECK | Negotiable |
| 416863 | 25-Mar-21 | SOUTHERN CALIFORNIA GAS COMPANY | 4,484.17 | IRWD CHECK | Negotiable |
| 416864 | 25-Mar-21 | SOUTHERN CALIFORNIA SECURITY CENTERS, INC. | 17.78 | IRWD CHECK | Negotiable |
| 416865 | 25-Mar-21 | STANTEC CONSULTING SERVICES INC. | 64,895.80 | IRWD CHECK | Negotiable |
| 416866 | 25-Mar-21 | STERIS CORPORATION | 2,838.00 | IRWD CHECK | Negotiable |
| 416867 | 25-Mar-21 | STRADLING YOCCA CARLSON & RAUTH | 25,000.00 | IRWD CHECK | Negotiable |
| 416868 | 25-Mar-21 | SYNAGRO-WWT, INC. | 42,174.61 | IRWD CHECK | Negotiable |
| 416869 | 25-Mar-21 | TAIT ENVIRONMENTAL SERVICES, INC. | 843.75 | IRWD CHECK | Negotiable |
| 416870 | 25-Mar-21 | TESTAMERICA LABORATORIES, INC. | 910.50 | IRWD CHECK | Negotiable |
| 416871 | 25-Mar-21 | THOMPSON & PHIPPS INC | 1,325.84 | IRWD CHECK | Negotiable |
| 416872 | 25-Mar-21 | TOTAL RESOURCE MANAGEMENT, INC | 935.00 | IRWD CHECK | Negotiable |
| 416873 | 25-Mar-21 | TROPICAL PLAZA NURSERY INC | 2,300.00 | IRWD CHECK | Negotiable |
| 416874 | 25-Mar-21 | UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA | 5,479.84 | IRWD CHECK | Negotiable |
| 416875 | 25-Mar-21 | UNITED PARCEL SERVICE INC | 58.94 | IRWD CHECK | Negotiable |
| 416876 | 25-Mar-21 | UNITED SITE SERVICES OF CALIFORNIA INC | 632.91 | IRWD CHECK | Negotiable |
| 416877 | 25-Mar-21 | US BANK NAT'L ASSOCIATION NORTH DAKOTA | 42,358.05 | IRWD CHECK | Negotiable |
| 416878 | 25-Mar-21 | VICKERS, KATHLEEN A | 77.00 | IRWD CHECK | Negotiable |
| 416879 | 25-Mar-21 | VILLA SIENA APTS | 1,430.49 | IRWD CHECK | Negotiable |
| 416880 | 25-Mar-21 | VILLAGE GREEN FOODS INC | 25.00 | IRWD CHECK | Negotiable |
| 416881 | 25-Mar-21 | VWR INTERNATIONAL, LLC | 2,649.54 | IRWD CHECK | Negotiable |
| 416882 | 25-Mar-21 | WALKER, THOMAS | 11.29 | IRWD CHECK | Negotiable |
| 416883 | 25-Mar-21 | WANG, RON | 13.47 | IRWD CHECK | Negotiable |
| 416884 | 25-Mar-21 | WASTE MANAGEMENT COLLECTIONS AND RECYCLING, INC. | 343.34 | IRWD CHECK | Negotiable |
| 416885 | 25-Mar-21 | WATER MANAGEMENT GROUP | 475.00 | IRWD CHECK | Negotiable |
| 416886 | 25-Mar-21 | WATER TREATMENT CHEMICALS INC | 12,174.72 | IRWD CHECK | Negotiable |
| 416887 | 25-Mar-21 | WATERLINE TECHNOLOGIES INC | 8,200.00 | IRWD CHECK | Negotiable |
| 416888 | 25-Mar-21 | WAXIE'S ENTERPRISES, INC | 1,787.55 | IRWD CHECK | Negotiable |
| 416889 | 25-Mar-21 | WECK LABORATORIES INC | 487.00 | IRWD CHECK | Negotiable |
| 416890 | 25-Mar-21 | WESTAMERICA COMMUNICATIONS, INC. | 600.00 | IRWD CHECK | Negotiable |
| 416891 | 25-Mar-21 | WIRELESS WATCHDOGS, LLC | 1,724.00 | IRWD CHECK | Negotiable |
| 416892 | 25-Mar-21 | WORKFORCE SAFETY LLC | 4,500.00 | IRWD CHECK | Negotiable |
| 416893 | 25-Mar-21 | WSZOLEK, CLIFFORD | 10.70 | IRWD CHECK | Negotiable |
| 416894 | 25-Mar-21 | YORK RISK SERVICES GROUP, INC. | 8,584.25 | IRWD CHECK | Negotiable |

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

| CHECK OR ELECTRONIC # | PAYMENT DATE | SUPPLIERS | PAYMENT AMOUNT | PAYMENT METHOD | STATUS |
|---|-----------------|---|----------------------|-------------------|------------|
| 416895 | 25-Mar-21 | YORKE ENGINEERING, LLC | 4,998.75 | IRWD CHECK | Negotiable |
| 416896 | 25-Mar-21 | YSI, INC | 3,004.52 | IRWD CHECK | Negotiable |
| SUB-TOTAL CHECK DISBURSEMENTS | | | 8,539,179.88 | | |
| 14235 | 1-Mar-21 | CHARD SNYDER & ASSOCIATES, INC. | 17,556.15 | IRWD Wire | Negotiable |
| 14236 | 1-Mar-21 | CHARD SNYDER & ASSOCIATES, INC. | 3,377.71 | IRWD Wire | Negotiable |
| 14237 | 2-Mar-21 | YORK INSURANCE SERVICES GROUP INC - CA | 9,476.37 | IRWD Wire | Negotiable |
| 14238 | 2-Mar-21 | CHARD SNYDER & ASSOCIATES, INC. | 1,544.25 | IRWD Wire | Negotiable |
| 14239 | 3-Mar-21 | CALPERS | 3,140.28 | IRWD Wire | Negotiable |
| 14240 | 3-Mar-21 | CALPERS | 567,471.26 | IRWD Wire | Negotiable |
| 14241 | 8-Mar-21 | CHARD SNYDER & ASSOCIATES, INC. | 12,207.63 | IRWD Wire | Negotiable |
| 14242 | 8-Mar-21 | CHARD SNYDER & ASSOCIATES, INC. | 4,077.54 | IRWD Wire | Negotiable |
| 14243 | 10-Mar-21 | YORK INSURANCE SERVICES GROUP INC - CA | 9,205.98 | IRWD Wire | Negotiable |
| 14244 | 10-Mar-21 | EMPLOYMENT DEVELOPMENT DEPARTMENT | 20,357.77 | IRWD Wire | Negotiable |
| 14245 | 10-Mar-21 | GREAT-WEST LIFE & ANNUITY INSURANCE COMPANY | 201,473.77 | IRWD Wire | Negotiable |
| 14246 | 10-Mar-21 | INTERNAL REVENUE SERVICE | 225,390.73 | IRWD Wire | Negotiable |
| 14247 | 10-Mar-21 | FRANCHISE TAX BOARD | 68,325.33 | IRWD Wire | Negotiable |
| 14248 | 10-Mar-21 | EMPLOYMENT DEVELOPMENT DEPARTMENT | 3,918.52 | IRWD Wire | Negotiable |
| 14249 | 10-Mar-21 | CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES | 2,323.01 | IRWD Wire | Negotiable |
| 14250 | 11-Mar-21 | CALPERS | 252,887.62 | IRWD Wire | Negotiable |
| 14251 | 11-Mar-21 | CALPERS | 1,433.95 | IRWD Wire | Negotiable |
| 14252 | 11-Mar-21 | CALPERS | 0.04 | IRWD Wire | Negotiable |
| 14253 | 15-Mar-21 | CHARD SNYDER & ASSOCIATES, INC. | 2,281.58 | IRWD Wire | Negotiable |
| 14254 | 15-Mar-21 | CHARD SNYDER & ASSOCIATES, INC. | 5,004.12 | IRWD Wire | Negotiable |
| 14255 | 15-Mar-21 | WELLS FARGO BANK, N.A. | 6,678.22 | IRWD Wire | Negotiable |
| 14256 | 16-Mar-21 | YORK INSURANCE SERVICES GROUP INC - CA | 14,709.88 | IRWD Wire | Negotiable |
| 14257 | 22-Mar-21 | FILANC-BALFOUR BEATTY JV | 19,500,000.00 | IRWD Wire | Negotiable |
| 14258 | 22-Mar-21 | BANK OF NEW YORK MELLON TRUST COMPANY NA | 3,061.65 | IRWD Wire | Negotiable |
| 14259 | 22-Mar-21 | U.S. BANK NATIONAL ASSOCIATION | 460.20 | IRWD Wire | Negotiable |
| 14260 | 22-Mar-21 | BANK OF AMERICA | 460.20 | IRWD Wire | Negotiable |
| 14261 | 22-Mar-21 | U.S. BANK NATIONAL ASSOCIATION | 204.08 | IRWD Wire | Negotiable |
| 14262 | 22-Mar-21 | SUMITOMO MITSUI BANKING CORPORATION | 850.68 | IRWD Wire | Negotiable |
| 14263 | 22-Mar-21 | MUNICIPAL WATER DISTRICT OF ORANGE COUNTY | 1,016,808.96 | IRWD Wire | Negotiable |
| 14264 | 22-Mar-21 | BANK OF NEW YORK MELLON TRUST COMPANY NA | 27,558.38 | IRWD Wire | Negotiable |
| 14265 | 22-Mar-21 | CHARD SNYDER & ASSOCIATES, INC. | 6,469.63 | IRWD Wire | Negotiable |
| 14266 | 22-Mar-21 | CHARD SNYDER & ASSOCIATES, INC. | 4,099.48 | IRWD Wire | Negotiable |
| 14267 | 22-Mar-21 | CITIGROUP GLOBAL MARKETS INC. | 832,093.22 | IRWD Wire | Negotiable |
| 14268 | 22-Mar-21 | MERRILL LYNCH CAPITAL SERVICES, INC | 832,093.22 | IRWD Wire | Negotiable |
| 14269 | 23-Mar-21 | YORK INSURANCE SERVICES GROUP INC - CA | 6,575.87 | IRWD Wire | Negotiable |
| 14270 | 25-Mar-21 | ORANGE COUNTY SANITATION DISTRICT | 5,583,742.01 | IRWD Wire | Negotiable |
| 14271 | 24-Mar-21 | EMPLOYMENT DEVELOPMENT DEPARTMENT | 19,785.86 | IRWD Wire | Negotiable |
| 14272 | 24-Mar-21 | CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES | 2,323.01 | IRWD Wire | Negotiable |
| 14273 | 24-Mar-21 | FRANCHISE TAX BOARD | 66,400.33 | IRWD Wire | Negotiable |
| 14274 | 24-Mar-21 | INTERNAL REVENUE SERVICE | 217,220.16 | IRWD Wire | Negotiable |
| 14275 | 24-Mar-21 | GREAT-WEST LIFE & ANNUITY INSURANCE COMPANY | 181,587.70 | IRWD Wire | Negotiable |
| 14276 | 25-Mar-21 | CALPERS | 0.01 | IRWD Wire | Negotiable |
| 14277 | 25-Mar-21 | CALPERS | 252,873.17 | IRWD Wire | Negotiable |
| 14278 | 29-Mar-21 | CHARD SNYDER & ASSOCIATES, INC. | 2,535.83 | IRWD Wire | Negotiable |
| 14279 | 29-Mar-21 | CHARD SNYDER & ASSOCIATES, INC. | 2,365.59 | IRWD Wire | Negotiable |
| 14280 | 30-Mar-21 | YORK INSURANCE SERVICES GROUP INC - CA | 1,484.14 | IRWD Wire | Negotiable |
| 14281 | 30-Mar-21 | FIRST AMERICAN TITLE CO. | 886,678.35 | IRWD Wire | Negotiable |
| 14282 | 31-Mar-21 | IRWD | 69,000.00 | IRWD Wire | Negotiable |
| SUB-TOTAL ELECTRONIC DISBURSEMENTS | | | 30,949,573.44 | | |
| SUB-TOTAL AP CHECK AND ELECTRONIC DISBURSEMENTS | | | 39,488,753.32 | | |
| SUB-TOTAL CHECK AND ELECTRONIC ISSUED AND VOIDED IN MAR 2020 | | | - | | |
| 416490 | 11-Mar-21 | SUN, YUTONG | 43.85 | IRWD CHECK | Voided |
| 416528 | 18-Mar-21 | ALICE A. HAAS | 2,200.00 | IRWD CHECK | Voided |
| SUB-TOTAL CHECK AND ELECTRONIC ISSUED AND VOIDED IN MAR 2021 | | | 2,243.85 | | |
| TOTAL AP DISBURSEMENTS AND VOIDS FOR MAR 2020 | | | 39,486,509.47 | | |

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Exhibit "E"

MONTHLY SUMMARY OF PAYROLL ACH PAYMENTS

**March
2021**

| | AMOUNT | VENDOR | PURPOSE |
|-----------|-------------------------------------|-----------------|--------------------------|
| 3/12/2021 | 1,067,048.43 | BANK OF AMERICA | ACH Payments for Payroll |
| 3/26/2021 | 1,049,621.50 | BANK OF AMERICA | ACH Payments for Payroll |
| | <u><u>\$2,116,669.93</u></u> | | |

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Exhibit "F"

IRWD Gov Code 53065.5 Disclosure Report

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

01-MAR-21 to 31-MAR-21

| NAME | CHECK NO. | CHECK | AMOUNT | ITEM DESCRIPTION | EXPENSE JUSTIFICATION |
|----------------------|-----------|-----------|-------------------|-----------------------|--|
| Bornhoff, Mike | 416697 | 25-Mar-21 | 192.00 | Membership Renewal | CWEA membership |
| Bornhoff, Mike | 416697 | 25-Mar-21 | 106.00 | Certification Renewal | CWEA Electrical/Instrumentation Grade IV |
| Burk, Rachael | 416698 | 25-Mar-21 | 180.00 | Certification Renewal | Board for Professional Engineers, Land Surveyors, and Geologists |
| Cano, Marco | 416516 | 18-Mar-21 | 192.00 | Membership Renewal | CWEA membership |
| Fike, Ethan | 416336 | 11-Mar-21 | 106.00 | Certification Renewal | CWEA Electrical/Instrumentation Grade IV |
| Fike, Ethan | 416336 | 11-Mar-21 | 192.00 | Membership Renewal | CWEA membership |
| King, Casey | 416700 | 25-Mar-21 | 105.00 | Certification Renewal | SWRCB Water Distribution Operator Grade IV |
| Kulick, Michael | 416701 | 25-Mar-21 | 192.00 | Membership Renewal | CWEA membership |
| McGehee, Joseph | 416337 | 11-Mar-21 | 180.00 | Certification Renewal | Board for Professional Engineers, Land Surveyors, and Geologists |
| Phuong, Sophia | 416703 | 25-Mar-21 | 1,385.00 | Certification Renewal | CalCPA Education Training |
| Phuong, Sophia | 416703 | 25-Mar-21 | 435.00 | Membership Renewal | CalCPA membership |
| Revnoso, Pio | 416338 | 11-Mar-21 | 101.00 | Certification Renewal | CWEA Collections Grade III |
| Revnoso, Pio | 416338 | 11-Mar-21 | 192.00 | Membership Renewal | CWEA membership |
| Sanchez, George | 416519 | 18-Mar-21 | 192.00 | Membership Renewal | CWEA membership |
| Sciabica, Joseph | 416520 | 18-Mar-21 | 290.00 | Certification Renewal | District Vehicle Smog Inspection and Repair |
| Total Amount: | | | \$4,040.00 | | |

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April 26, 2021
Prepared by: J. Davis
Submitted by: R. Jacobson / C. Clary
Approved by: Paul A. Cook 

CONSENT CALENDAR

LETTER OF CREDIT EXTENSION FOR IRWD SERIES 2008A BONDS

SUMMARY:

IRWD currently has \$45.0 million of Series 2008-A Refunding Bonds supported by a Sumitomo Mitsui letter of credit (LOC) which is scheduled to expire on June 21, 2021. Sumitomo provided IRWD with a proposal to extend the LOC for a three-year, four-year or five-year term at an annual rate of 0.30%, 0.315%, and 0.33%, respectively. Based on the proposal received and feedback from the District's Municipal Advisor, Public Financial Management (PFM), staff recommends the Board adopt a resolution approving the extension of the Sumitomo LOC for four years at a rate of 0.315% per year.

BACKGROUND:

The District currently has \$45.0 million of Series 2008-A Refunding Bonds (2008A Bonds) supported by a Sumitomo Mitsui LOC scheduled to expire on June 21, 2021. Current pricing for the Sumitomo LOC is 0.315%. Sumitomo provided a proposal to extend the LOC for a three-year, four-year, or five-year term at an annual rate of 0.30%, 0.315%, and 0.33%, respectively.

Staff reviewed current LOC market rates with PFM, the District's municipal financial advisor, to ensure the fee proposal was competitive with LOC pricing from other banks of similar credit quality. PFM confirmed the pricing was competitive with current LOC market pricing. Staff recommends the Board adopt a resolution approving the extension of the LOC for a four-year term from May 2021 to May 2025 at an annual cost of 0.315% (which is consistent with the current Sumitomo LOC fee). The Letter of Credit Pricing Analysis is provided as Exhibit "A", and the resolution is included as Exhibit "B".

FISCAL IMPACTS:

Extending the Sumitomo LOC supporting the 2008A Bonds for a four-year term at 0.315% will result in an estimated total cost of \$511,456. Expenses related to the extension for legal services and other miscellaneous costs are estimated at \$19,500.

COMMITTEE STATUS:

This item was reviewed by the Finance and Personnel Committee on March 2, 2021.

RECOMMENDATION:

THAT THE BOARD APPROVE AN EXTENSION OF THE SUMITOMO MITSUI LETTER OF CREDIT SUPPORTING THE DISTRICT'S 2008A REFUNDING BONDS TO MAY 2025 AT AN ANNUAL COST OF 0.315%, AND ADOPT THE FOLLOWING RESOLUTION BY TITLE:

RESOLUTION NO. 2021-

RESOLUTION OF THE BOARD OF DIRECTORS OF
THE IRVINE RANCH WATER DISTRICT
AUTHORIZING CERTAIN ACTIONS IN CONNECTION
WITH EXTENSION OF LETTER OF CREDIT
(CONSOLIDATED REFUNDING SERIES 2008A)

LIST OF EXHIBITS:

Exhibit "A" – Letter of Credit Extension Pricing Analysis

Exhibit "B" – Resolution Authorizing Certain Actions in Connection with LOC Extension

Exhibit "A"
IRVINE RANCH WATER DISTRICT
SUMITOMO MITSUI BANKING CORPORATION LETTER OF CREDIT PRICING

Consolidated Refunding Series 2008A

| Fiscal Year | Prinicpal | Stated ⁽¹⁾ | LC Fee | Annual Cost |
|------------------------------|--------------|-----------------------|--------|------------------|
| FY 21-22 | \$43,000,000 | \$43,636,164 | 0.315% | \$137,454 |
| FY 22-23 | 41,000,000 | 41,606,575 | 0.315% | 131,061 |
| FY 23-24 | 39,000,000 | 39,576,986 | 0.315% | 124,668 |
| FY 24-25 | 37,000,000 | 37,547,397 | 0.315% | 118,274 |
| LC Fees | | | | \$511,456 |
| Estimated extension expenses | | | | 19,500 |
| Total | | | | \$530,956 |

(1) Stated amount represents the average par amount of bonds outstanding for the 2008A Bonds, plus 45 days of interest at the maximum rate of 12%.

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RESOLUTION NO. 2021-

RESOLUTION OF THE BOARD OF DIRECTORS OF
THE IRVINE RANCH WATER DISTRICT
AUTHORIZING CERTAIN ACTIONS IN CONNECTION
WITH EXTENSION OF LETTER OF CREDIT
(CONSOLIDATED REFUNDING SERIES 2008A)

The Irvine Ranch Water District (“**IRWD**”) has issued the Bonds of IRWD, Consolidated Refunding Series 2008A (the “**Series 2008A Bonds**”).

The irrevocable letter of credit of Sumitomo Mitsui Banking Corporation has been issued with respect to the Series 2008A Bonds (the “**2008A Bonds Letter of Credit**”).

The 2008A Bonds Letter of Credit is scheduled to expire on June 21, 2021.

Consistent with IRWD’s Debt Management Policy, the Board of Directors (the “**Board**”) must approve all debt issuance or refunding proposals made by IRWD involving a pledge or other extension of IRWD’s credit through the sale of securities, execution of loans or leases, or making guarantees, or otherwise involving directly or indirectly the lending or pledging of IRWD’s credit.

After evaluating proposed terms and conditions for extending the Letter of Credit, the Board believes it is in the interest of IRWD to authorize the extension of the Letter of Credit as provided herein.

The 2008A Bonds Letter of Credit was issued and has previously been extended pursuant to the Reimbursement Agreement, dated as of April 1, 2011, as amended by Amendment No. 1 to Reimbursement Agreement, dated as of July 15, 2013 and subsequently amended by Amendment No. 2 to Reimbursement Agreement, dated as of June 21, 2017, each by and between the District and Sumitomo Mitsui Banking Corporation (collectively, the “**2008A Bonds Reimbursement Agreement**”).

The Board of Directors of IRWD therefore resolves as follows:

Section 1. The Treasurer is hereby authorized and directed to cause the extension of the 2008A Bonds Letter of Credit, so as to expire on or about May 28, 2025. The form of a third amendment to the 2008A Bonds Reimbursement Agreement (inclusive of the form of a third amendment to the fee letter) is hereby approved in substantially the form presented to the Board with this resolution, and the President and Secretary are authorized and directed to execute such amendment and fee letter, each in the form so presented with such changes therein as are approved by, and on the date for delivery established by, the Treasurer with the concurrence of the President, which approval will be conclusively evidenced by execution and delivery thereof.

Section 2. The foregoing authorization to cause the extension of the 2008A Bonds Letter of Credit shall further include any and all of the following: preparation and/or approval,

execution and delivery of any notices, instruments, disclosure or other documents to be delivered or distributed in conjunction with the authorized actions, and any other actions to implement such extension of the 2008A Bonds Letter of Credit.

Section 3. The President, Secretary and each other officer of IRWD is hereby authorized and directed to execute and deliver any and all documents and instruments and to do and cause to be done any and all acts and things necessary or proper for carrying out the transaction contemplated by this resolution.

ADOPTED, SIGNED AND APPROVED this 26th day of April 2021.

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

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

APPROVED AS TO FORM:
Hanson Bridgett LLP

By: _____
District Counsel

AMENDMENT NO. 3 TO
REIMBURSEMENT AGREEMENT

Dated as of May 28, 2021

Between

IRVINE RANCH WATER DISTRICT

and

SUMITOMO MITSUI BANKING CORPORATION,
acting through its New York Branch

Relating to the

\$60,215,000
original aggregate principal amount of
Bonds of Irvine Ranch Water District,
Consolidated Refunding Series 2008A

Amending that certain Reimbursement Agreement, dated as of April 1, 2011, between Irvine Ranch Water District and Sumitomo Mitsui Banking Corporation, acting through its New York Branch, as previously amended by that certain Amendment No. 1 to Reimbursement Agreement, dated as of July 15, 2013, between Irvine Ranch Water District and Sumitomo Mitsui Banking Corporation, acting through its New York Branch and by that certain Amendment No. 2 to Reimbursement Agreement, dated as of June 21, 2017, between Irvine Ranch Water District and Sumitomo Mitsui Banking Corporation, acting through its New York Branch

**AMENDMENT NO. 3 TO
REIMBURSEMENT AGREEMENT**

THIS AMENDMENT NO. 3 TO REIMBURSEMENT AGREEMENT, dated as of May 28, 2021 (this “Amendment No. 3”), between IRVINE RANCH WATER DISTRICT, a California water district (“IRWD”) and SUMITOMO MITSUI BANKING CORPORATION, acting through its New York Branch (the “Bank”), amending that certain Reimbursement Agreement, dated as of April 1, 2011, between IRWD and the Bank, as previously amended by that certain Amendment No. 1 to Reimbursement Agreement, dated as of July 15, 2013, between IRWD and the Bank, and by that certain Amendment No. 2 to Reimbursement Agreement, dated as of June 21, 2017, between IRWD and the Bank (as so amended, the “Second Amended Agreement” and as amended by this Amendment No. 3 and as it may be further amended and supplemented from time to time, the “Agreement”).

W I T N E S S E T H

WHEREAS, IRWD issued \$60,215,000 aggregate principal amount of its Bonds of Irvine Ranch Water District, Consolidated Refunding Series 2008A (the “Bonds”) constituting the consolidated several general obligations of Improvement District Nos. 113, 125, 213 and 225 (the “Applicable Improvement Districts”), pursuant to an Indenture of Trust dated as of April 1, 2008, by and between IRWD and The Bank of New York Mellon Trust Company, N.A., as trustee (the “Trustee”), as amended pursuant to a First Supplemental Indenture of Trust dated as of June 1, 2014, by and between IRWD and the Trustee (as so amended and as the same may be further amended or supplemented from time to time, the “Indenture”);

WHEREAS, the Bonds are Outstanding in the aggregate principal amount of Forty-Five Million Dollars (\$45,000,000); and

WHEREAS, the current stated Termination Date of the Letter of Credit is June 21, 2021 and IRWD has requested the Bank to extend the stated Termination Date of the Letter of Credit. The Bank has agreed to extend the stated Termination Date of the Letter of Credit to May 28, 2025 pursuant to the Letter of Credit Amendment No. 3 (as more particularly defined herein) subject to amendment of the Second Amended Agreement as reflected in this Amendment No. 3 and amendment of the Fee Letter, dated as of April 1, 2011, by and between IRWD and the Bank, as amended by that certain Amendment No. 1 to Fee Letter, dated as of July 15, 2013, by and between IRWD and the Bank, and by that certain Amendment No. 2 to Fee Letter, dated June 21, 2017, by and between IRWD and the Bank (as so amended, the “Second Amended Fee Letter”), by and between IRWD and the Bank, as reflected in the Amendment No. 3 to Fee Letter dated May 28, 2021, by and between IRWD and the Bank (the “Fee Letter Amendment No. 3”).

NOW, THEREFORE, in consideration of the foregoing and the undertakings herein set forth and intending to be legally bound, and in order to induce the Bank to issue the Letter of Credit Amendment No. 3 on the Extension Effective Date (as more particularly defined herein), IRWD and the Bank hereby agree as follows:

SECTION 1. AUTHORITY AND DEFINITIONS

(a) This Amendment No. 3 is entered into pursuant to Section 8.1 of the Second Amended Agreement.

(b) This Amendment No. 3 amends the Second Amended Agreement.

(c) Capitalized terms used herein without definition shall have the meanings set forth in the Second Amended Agreement.

(d) Subject to the satisfaction of the conditions precedent set forth in Section 3 hereof, this Amendment No. 3 shall become effective, and a letter of credit amendment substantially in the form of Exhibit A attached hereto (the "Letter of Credit Amendment No. 3") shall be delivered to the Trustee by the Bank, upon the execution and delivery hereof and of the Fee Letter Amendment No. 3, by IRWD and the Bank on May 28, 2021 (the "Extension Effective Date").

(e) The provisions of this Amendment No. 3 shall supersede and prevail over any conflicting provisions of the Second Amended Agreement. If there is any conflict between the terms, conditions, and provisions of this Amendment No. 3 and those of any of the other Financing Documents, the terms, conditions and provisions of this Amendment No. 3, as applicable, shall prevail. Save and except as expressly amended hereby, all of the terms and provisions of the Second Amended Agreement continue in full force and effect and are applicable to the provisions of this Amendment No. 3 and the obligations of the parties hereunder. Reference to this specific Amendment No. 3 need not be made in any note, document, agreement, letter, certificate, the Agreement or any communication issued or made subsequent to, or with respect to, the Agreement, it being hereby agreed that any reference to the Agreement shall be sufficient to refer to the Second Amended Agreement as hereby amended. The parties hereto expressly agree that this Amendment No. 3 shall constitute a modification of the Second Amended Agreement and does not constitute a novation or substitution with respect to the Second Amended Agreement.

SECTION 2. AMENDMENT OF THE SECOND AMENDED REIMBURSEMENT AGREEMENT

(a) Section 1.1 of the Second Amended Agreement is hereby amended by deleting the following definition in its entirety and substituting the following therefor:

"Base Rate" means a rate of interest per annum equal to the highest of: (a) the Prime Rate plus two percent (2.00%); (b) the Federal Funds Rate plus three percent (3.00%); and (c) the SIFMA Index plus three percent (3.00%).

"Fee Letter" means that certain Fee Letter dated as of April 1, 2011 between the Bank and IRWD, as amended by Amendment No. 1 thereto dated as of July 15, 2013, by Amendment No. 2 thereto, and by Amendment No. 3 thereto, and as it may be further amended from time to time.

SECTION 3. CONDITIONS PRECEDENT. The obligation of the Bank to issue and deliver the Letter of Credit Amendment No. 3 to the Trustee shall be subject to the fulfillment, at or before the issuance of the Letter of Credit Amendment No. 3, of each of the following conditions, in form and substance satisfactory to the Bank:

(a) This Amendment No. 3 and the Fee Letter Amendment No. 3 shall have been duly executed and delivered by each of the respective parties thereto and shall not have been modified, amended or rescinded, shall be in full force and effect on and as of the Extension Effective Date and executed originals of each thereof shall have been delivered to the Bank.

(b) All other legal matters pertaining to the execution and delivery of this Amendment No. 3 and the Fee Letter Amendment No. 3 and the issuance of the Letter of Credit Amendment No. 3 shall be satisfactory to the Bank, and the Bank shall have received such other certificates, approvals or filings, opinions and documents as shall be reasonably requested by the Bank.

SECTION 4. REPRESENTATIONS AND WARRANTIES. IRWD hereby represents and warrants as of the Extension Effective Date as follows:

(a) Each representation and warranty on the part of IRWD contained in this Amendment No. 3 and in the Agreement (including as amended by this Amendment No. 3) and in any and all documents delivered to the Bank in connection herewith are true and correct in all material respects;

(b) no Default or Event of Default has occurred and is continuing or will occur upon the issuance of the Letter of Credit Amendment No. 3;

(c) since June 30, 2020, there has been no material adverse change in such condition or operation, the business properties, or conditions (financial or otherwise) of IRWD, except as disclosed to the Bank in writing;

(d) IRWD is in compliance with the terms and conditions of the Second Amended Agreement and the Second Amended Fee Letter and has performed or complied with all of its obligations, covenants and conditions to be performed or complied with pursuant to the Agreement and the Fee Letter on or prior to the Extension Effective Date;

(e) this Amendment No. 3 and the Fee Letter Amendment No. 3 have been duly authorized, executed and delivered by IRWD; and

(f) there are no facts that IRWD has failed to disclose to the Bank that, individually or in the aggregate, could have a materially adverse effect on the assets, financial condition, business or operations of IRWD or its ability to perform its obligations under the Financing Documents and all information, reports and other papers and data with respect to IRWD furnished to the Bank or its counsel by IRWD in connection with this Amendment No. 3 and the Fee Letter Amendment No. 3, taken in the aggregate and as supplemented, replaced, substituted or modified by any subsequent information, reports, paper and data so furnished, are true and correct in all material respects and do not contain any untrue statement of a material fact or omit to state a material fact necessary in order to make the statements contained therein not

misleading, and were provided in expectation of the Bank's reliance thereon in issuing the Letter of Credit Amendment No. 3.

SECTION 5. COSTS AND EXPENSES. IRWD agrees to pay, within a reasonable period of time following demand therefor, all costs and expenses paid or incurred by the Bank (including the reasonable fees and out-of-pocket expenses of counsel for the Bank) in connection with the preparation, review, execution and delivery of this Amendment No. 3 and the Fee Letter Amendment No. 3 and the issuance of the Letter of Credit Amendment No. 3. IRWD hereby agrees that all costs and expenses incurred by the Bank in connection with the transactions contemplated herein and the satisfaction of the foregoing conditions (whether or not this transaction closes), including, without limitation, costs and expenses of United States counsel to the Bank, are included as obligations under the Second Amended Agreement and the Second Amended Fee Letter.

SECTION 6. NO WAIVER. IRWD acknowledges and agrees that, if and to the extent that the Bank has not heretofore required strict compliance with the performance by IRWD of the covenants, agreements and obligations of IRWD under the Agreement or the other Financing Documents, such action or inaction shall not constitute a waiver of, or otherwise affect in any manner, the Bank's rights and remedies under the Agreement or the other Financing Documents, as amended hereby, including the right to require performance of such covenants, agreements and obligations strictly in accordance with the terms and provisions thereof.

SECTION 7. EXECUTION IN COUNTERPARTS. This Amendment No. 3 may be executed in counterparts, each of which when so executed and delivered shall be deemed to be an original and all of which counterparts, taken together, shall constitute but one and the same agreement.

SECTION 8. GOVERNING LAW. The Bank's rights and obligations hereunder shall be deemed to be a contract made under the laws of the State of New York and for all purposes shall be construed in accordance with the laws of said State, without regard to principles of conflicts of law. For purposes of IRWD's rights and obligations hereunder, this Amendment No. 3 shall be deemed to be a contract made under the laws of the State of California and for all purposes shall be construed in accordance with the laws of said State, without regard to principles of conflicts of law.

SECTION 9. SEVERABILITY OF PROVISION. Any provision of this Amendment No. 3 which is prohibited, unenforceable or not authorized in any jurisdiction shall, as to such jurisdiction, be ineffective to the extent of such prohibition, unenforceability or non-authorization without invalidating the remaining provisions hereof or affecting the validity, enforceability or legality of such provision in any other jurisdiction.

SECTION 10. ENTIRE AGREEMENT. This Amendment No. 3 and the Fee Letter Amendment No. 3 constitute the entire understanding of the parties with respect to the subject matter thereof and any prior agreements, whether written or oral, with respect thereto are superseded hereby and thereby. Taken together with the Second Amended Agreement and the Second Amended Fee Letter and the other instruments and documents delivered in compliance herewith, this Amendment No.3 and the Fee Letter Amendment No.3 are a complete memorandum of the agreement of IRWD and the Bank.

SECTION 11. HEADINGS. Section headings used in this Amendment No.3 are for convenience of reference only and shall not affect the construction of this Amendment No. 3.

[The remainder of this page intentionally left blank]

IN WITNESS WHEREOF, the parties hereto have caused this Amendment No. 3 to Reimbursement Agreement to be duly executed and delivered by their respective officers duly authorized as of the date first above written.

IRVINE RANCH WATER DISTRICT

By: _____
Name: Douglas Reinhart
Title: President

By: _____
Name: Leslie Bonkowski
Title: Secretary

SUMITOMO MITSUI BANKING
CORPORATION, acting through its New York
Branch

By: _____
Name: _____
Title: _____

Exhibit A

Form of Letter of Credit Amendment No. 3

SUMITOMO MITSUI BANKING CORPORATION
277 Park Avenue
New York, New York 10172

Bonds of Irvine Ranch Water District
Consolidated Refunding Series 2008A

ANNEX 10
[FOR BANK TO EXTEND TERMINATION DATE OF
LETTER OF CREDIT UPON REQUEST OF IRWD]

The Bank of New York Mellon Trust Company, N.A., as Trustee
400 South Hope Street, Suite 500
Los Angeles, CA 90071
Attention: Marina Meza

CERTIFICATE EXTENDING THE TERMINATION DATE OF LETTER OF CREDIT

You are hereby notified pursuant to Section 2.6 of the Reimbursement Agreement, dated as of April 1, 2011, by and between Irvine Ranch Water District and Sumitomo Mitsui Banking Corporation, acting through its New York Branch (the "Bank") that the Bank has approved a four-year extension of Letter of Credit No. LG/MIS/NY-037710 (the "Letter of Credit"), dated April 15, 2011. The new Termination Date is May 28, 2025.

You are hereby authorized to attach this Certificate Extending the Termination Date of Letter of Credit to the Letter of Credit and to treat this Certificate Extending the Termination Date of Letter of Credit as an amendment to the Letter of Credit.

Date: May 28, 2021

SUMITOMO MITSUI BANKING
CORPORATION, acting through its New York
Branch

By: _____
Name: _____
Title: _____

AMENDMENT NO. 3 TO FEE LETTER

May 28, 2021

\$60,215,000
original aggregate principal amount of
Bonds of Irvine Ranch Water District,
Consolidated Refunding Series 2008A

Reference is hereby made to that certain Reimbursement Agreement, dated as of April 1, 2011, between Irvine Ranch Water District (together with any successors and permitted assigns, the “*Issuer*”) and Sumitomo Mitsui Banking Corporation, acting through its New York Branch (the “*Bank*”), as previously amended by that certain Amendment No. 1 to Reimbursement Agreement, dated as of July 15, 2013, between the Issuer and the Bank, by that certain Amendment No. 2 to Reimbursement Agreement, dated as of June 21, 2017, between the Issuer and the Bank, and by that certain Amendment No. 3 to Reimbursement Agreement, dated as of May 28, 2021, between the Issuer and the Bank (as so amended and as it may be further amended or supplemented from time to time, the “*Agreement*”), relating to the above-captioned bonds (the “*Bonds*”). This Amendment No. 3 to Fee Letter (this “*Amendment No. 3*”) amends that certain Fee Letter, dated April 1, 2011 (the “*Original Fee Letter*”), between the Issuer and the Bank, as previously amended by that certain Amendment No. 1 to Fee Letter, dated as of July 15, 2013, between the Issuer and the Bank, and by that certain Amendment No. 2 to Fee Letter, dated June 21, 2017, between the Issuer and the Bank (as so amended, the “*Second Amended Fee Letter*”). Capitalized terms used herein without definition shall have the meanings assigned thereto in the Agreement.

1. Authority and Definitions.

(a) This Amendment No. 3 is entered into in compliance with the provisions of the Second Amended Fee Letter.

(b) This Amendment No. 3 amends the Second Amended Fee Letter.

(c) Capitalized terms used herein without definition shall have the meanings set forth in the Second Amended Fee Letter.

(d) This Amendment No. 3 shall become effective upon the execution and delivery hereof by the Issuer and the Bank on May 28, 2021 (the “*Extension Effective Date*”).

(e) The provisions of this Amendment No. 3 shall supersede and prevail over any conflicting provisions of the Second Amended Fee Letter. If there is any conflict between the terms, conditions and provisions of this Amendment No. 3 and those of any of the Financing Documents, the terms, conditions and provisions of this Amendment No. 3, as applicable, shall prevail. Save and except as expressly amended hereby, all of the terms and

provisions of the Second Amended Fee Letter continue in full force and effect and are applicable to the provisions of this Amendment No. 3 and the obligations of the parties hereunder. Reference to this specific Amendment No. 3 need not be made in any note, document, agreement, letter, certificate, the Fee Letter or any communication issued or made subsequent to, or with respect to, the Fee Letter, it being hereby agreed that any reference to the Fee Letter shall be sufficient to refer to the Second Amended Fee Letter as hereby amended. The parties hereto expressly agree that this Amendment No. 3 shall constitute a modification of the Second Amended Fee Letter and does not constitute a novation or substitution with respect to the Second Amended Fee Letter.

(f) The terms of the Second Amended Fee Letter, as amended by this Amendment No. 3, are incorporated by reference into the Agreement as if fully set forth therein.

2. Amendment of the Second Amended Fee Letter.

(a) The first full paragraph and the table of Facility Fee Rates set forth in Section 1 of the Second Amended Fee Letter are hereby deleted in their entirety and the following substituted therefor:

1. Facility Fee. The Issuer hereby agrees to pay to the Bank a non-refundable facility fee (the "*Facility Fee*") payable quarterly in arrears on the first Business Day of each January, April, July and October (commencing on July 1, 2011, for the period from and including the Effective Date to but not including July 1, 2011) (each, a "*Quarterly Payment Date*") for the period from and including such Quarterly Payment Date to but not including the next succeeding Quarterly Payment Date occurring thereafter to the Termination Date, in an amount set forth below. The amount of the Facility Fee for the period from and including the Effective Date to but not including July 15, 2013 shall be as set forth in the Fee Letter, dated April 15, 2011 (the "*Original Fee Letter*"), between the Issuer and the Bank. The amount of the Facility Fee for the period from and including July 15, 2013 to but not including July 15, 2017 shall be as set forth in the Original Fee Letter, as amended by that certain Amendment No. 1 to Fee Letter, dated as of July 15, 2013, between the Issuer and the Bank (as so amended, the "*First Amended Fee Letter*"). The amount of the Facility Fee for the period from and including July 15, 2017 to but not including May 28, 2021 shall be as set forth in the First Amended Fee Letter, as amended by that certain Amendment No. 2 to Fee Letter, dated June 21, 2017, between the Issuer and the Bank (as so amended, the "*Second Amended Fee Letter*"), and shall be payable on July 1, 2021 for the period from and including April 1, 2021 to but not including May 28, 2021. The Facility Fee for the period from and including May 28, 2021 and thereafter shall be an amount equal to the rate per annum associated with the lowest Rating as specified below (the "*Facility Fee Rate*") on the undrawn Stated Amount of the Letter of Credit for each day during each related period.

| Level | S&P Rating | Moody's Rating | Fitch Rating | Facility Fee Rate |
|---------|--------------|----------------|--------------|-------------------|
| Level 1 | AA- or above | Aa3 or above | AA- or above | 0.315% |
| Level 2 | A+ | A1 | A+ | 0.515% |
| Level 3 | A | A2 | A | 0.750% |
| Level 4 | A- | A3 | A- | 1.100% |
| Level 5 | BBB+ | Baa1 | BBB+ | 1.750% |
| Level 6 | BBB | Baa2 | BBB | 2.000% |
| Level 7 | BBB- | Baa3 | BBB- | 2.250% |
| Level 8 | Below BBB- | Below Baa3 | Below BBB- | 3.000% |

3. Miscellaneous.

(a) This Amendment No. 3 may be executed in counterparts, each of which when so executed and delivered shall be deemed to be an original and all of which counterparts, taken together, shall constitute but one and the same agreement.

(b) This Amendment No. 3 and the Second Amended Fee Letter shall be construed as one agreement between the Issuer and the Bank and shall be governed by the provisions of the Second Amended Fee Letter.

(c) The Bank's rights and obligations hereunder shall be deemed to be a contract made under the laws of the State of New York and for all purposes shall be construed in accordance with the laws of said State, without regard to principles of conflicts of law. For purposes of the Issuer's rights and obligations hereunder, this Amendment No. 3 shall be deemed to be a contract made under the laws of the State of California and for all purposes shall be construed in accordance with the laws of said State, without regard to principles of conflicts of law.

(d) Any provision of this Amendment No. 3 which is prohibited, unenforceable or not authorized in any jurisdiction shall, as to such jurisdiction, be ineffective to the extent of such prohibition, unenforceability or non-authorization without invalidating the remaining provisions hereof or affecting the validity, enforceability or legality of such provision in any other jurisdiction.

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IN WITNESS WHEREOF, the Issuer and the Bank have caused this Amendment No. 3 to Fee Letter to be duly executed and delivered as of the date first above written.

IRVINE RANCH WATER DISTRICT

By: _____
Name: Douglas Reinhart
Title: President

By: _____
Name: Leslie Bonkowski
Title: Secretary

SUMITOMO MITSUI BANKING
CORPORATION, acting through its New York
Branch, as the Bank

By: _____
Name: _____
Title: _____

April 26, 2021
Prepared and
submitted by: F. Sanchez / C. Clary
Approved by: Paul A. Cook 

CONSENT CALENDAR

SHARED SERVICES AGREEMENT WITH THE
GROUNDWATER BANKING JOINT POWERS AUTHORITY

SUMMARY:

IRWD provides staffing resources and other services to the Groundwater Banking Joint Powers Authority (GBJPA). The Shared Services Agreement provides the terms for reimbursement for the cost of those services. Staff recommends the Board authorize the General Manager to execute the Shared Services Agreement with the Groundwater Banking Joint Powers Authority.

BACKGROUND:

The GBJPA was formed as the entity to develop, implement, own, and then operate the Kern Fan Groundwater Storage Program. As IRWD provides staff resources and other services to the GBJPA, it is necessary for the GBJPA to reimburse the District for the cost of those services. The members of the GBJPA, IRWD and Rosedale-Rio Bravo Storage District, have worked with the GBJPA's legal counsel to develop a Shared Services Agreement. IRWD and Rosedale will individually execute the agreement with the GBJPA agreeing to the terms which are provided as Exhibit "A".

Key terms of the Shared Services Agreement are as follows:

- Hourly rates will be based on Rosedale's or IRWD's respective base salaries;
- A standard agreed-upon overhead rate for the GBJPA will be applied and will be reviewed periodically (the current agreed-upon overhead rate for the GBJPA is 63.9%);
- Mileage will be reimbursed at the standard IRS rate; and
- Expenses will be reimbursed at actual cost.

Rosedale approved the Shared Services Agreement at its Board meeting on April 13, 2021. The GBJPA Board will consider approval of the Shared Services Agreement at its next meeting on May 3, 2021.

FISCAL IMPACTS:

Not applicable.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

Consent Calendar: Shared Services Agreement with the Groundwater Banking Joint Powers Authority
April 26, 2021
Page 2

COMMITTEE STATUS:

This item was not reviewed by a Committee.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE A SHARED SERVICES AGREEMENT WITH THE GROUNDWATER BANKING JOINT POWERS AUTHORITY FOR REIMBURSEMENT OF IRWD STAFF RESOURCES AND OTHER SERVICES.

LIST OF EXHIBITS:

Exhibit "A" – Agreement for Shared Services Related to the Groundwater Banking Joint Powers Authority

Exhibit A

AGREEMENT FOR SHARED SERVICES RELATED TO THE
GROUNDWATER BANKING JOINT POWERS AUTHORITY

This AGREEMENT (this “Agreement”) is made and entered into _____ 2021 (“Effective Date”), by and between the entities executing this Agreement below related to shared services for the GROUNDWATER BANKING JOINT POWERS AUTHORITY (“Authority” or “GBJPA”), a California joint powers authority organized under Article 1, Chapter 5, Division 7, Title 1 of the California Government Code. The executing parties are sometimes referred herein collectively as “Parties” or individually as a “Party.”

RECITALS

A. WHEREAS, Rosedale-Rio Brave Water Storage District (“RRB”) is a public agency organized in accordance with the California Water Storage District Law (Division 14, commencing with §39000 of the California Water Code) for the purpose of acquiring, storing, distributing, and replenishing water supplies within its boundaries in Kern County, California.

B. WHEREAS, Irvine Ranch Water District (“IRWD”) is a public agency organized in accordance with the California Water District Law (Division 13, commencing with §34000 of the California Water Code) to provide water services and certain other services. IRWD’s powers and purposes include the acquisition within or outside the district in the State of all necessary property, water, and water rights for the production, storage, transmission, and distribution of water for irrigation, domestic, industrial, and municipal purposes and to provide and sell such water at wholesale and retail to customers within its boundaries in Orange County, California.

C. WHEREAS, both RRB and IRWD entered into an agreement on July 1, 2020 to establish a joint powers authority to pursue and develop the Kern Fan Groundwater Storage Project (“Project”).

D. WHEREAS, through the Project, the Parties seek to develop a regional water bank in the Kern County Groundwater Sub-basin of the San Joaquin Valley Groundwater Basin in Kern County. The Project would recharge and store up to 100,000 acre-feet of water during periods when surface water is abundant.

E. WHEREAS, the Parties formed the Authority to achieve the above-described objectives of the Project, and this Agreement will define the rates and timing of reimbursements related to staff time spent on the project and other related costs NOW, THEREFORE, it is agreed by and between the Parties as follows:

AGREEMENT

1. Staff Time: Rates of Reimbursement

The Parties intend to utilize existing staff at RRB and IRWD to staff and support the planning, design, construction, operation and administration of the Project. The primary responsibility for delegating reimbursable tasks to respective support staff shall lie with authorized persons: the General Manager, Project Manager(s) and Treasurer. Neither RRB nor IRWD will receive reimbursement for any staff time spent in furtherance of the Project that was not delegated to the staff member by an authorized person. RRB and IRWD shall each retain the right to dispute an invoice of the other on the grounds that specific work items were not appropriately authorized, were unnecessary to further the Project objectives, and/or that the time spent or the number of staff members working on a particular matter was excessive. The General Manager and Treasurer shall jointly have the right to resolve these issues. If such disputes can't be resolved, the matter will be resolved by the Board of Directors.

For hours worked on JPA related matters, hourly rates will be charged to the JPA based on the actual respective IRWD or RRB base compensation excluding benefits. A standard agreed upon overhead rate of 63.9% will be applied, unless otherwise agreed upon to all billable labor costs. The GBJPA overhead rate may be periodically reviewed and adjusted by the GBJPA Board of Directors.

All other JPA related expenses will be billed to the JPA based on actual costs. Supporting documentation must be provided. Mileage will be reimbursed at the standard IRS rate.

Each respective member agency will submit a bill for staff hours worked or any other JPA related costs to the JPA on a quarterly basis no later than 30 days after the end of a calendar quarter. The JPA will then reimburse the respective member agency no later than 30 days after receipt of the invoice.

2. Termination

This Agreement shall terminate at the completion of the Project or termination of the Groundwater Banking Joint Powers Authority Agreement and in accordance with the obligations set forth therein.

3. Amendments

This Agreement may be amended, or renewed, in writing at any time and from time to time by unanimous consent of all the member agencies.

4. Complete Agreement

The foregoing constitutes the full and complete Agreement of the Parties. There are no oral understandings or agreements concerning the subject matter of this Agreement not set forth in writing herein.

IN WITNESS WHEREOF, the Parties hereto have caused this Agreement to be executed on date set forth below.

IRVINE RANCH WATER DISTRICT

GROUNDWATER BANKING JOINT POWERS AUTHORITY

By: _____

By: _____

Print Name: _____

Print Name: _____

Title: _____

Title: _____

Date: _____

Date: _____

Approved as to Form:

Approved as to Form:

DRAFT

Note: This page is intentionally left blank.

April 26, 2021
Prepared by: J. Dayer
Submitted by: R. Mykitta / W. Chambers
Approved by: Paul A. Cook



CONSENT CALENDAR

HYDROEXCAVATOR CONTRACT AWARD

SUMMARY:

The Fiscal Year 2020-21 Operating Budget includes funding to purchase a truck-mounted hydroexcavator. Hydroexcavators assist staff with removing soil during construction activities, improving safety and reducing the risk of damage to buried utilities and infrastructure. Staff recommends the Board authorize the General Manager to award a contract to Plumber's Depot, Inc. in the amount of \$502,050 for the purchase of a new hydroexcavator.

BACKGROUND:

Hydroexcavators assist staff when performing excavation – primarily of pipelines and valves for replacement or repair. Using vacuum hydroexcavators for excavation improves worksite safety, decreases the cost of digging, and prevents damage to unidentified buried utilities (which can result from using backhoes, trenchers, or other mechanical earth movers). IRWD purchased its first hydroexcavator in 2005, and it has proven to be very useful. This unit is used regularly and has accumulated 10,000 operating hours. Replacement of this unit is now recommended due to its age, condition, and increased usage.

Procurement Process:

Staff solicited proposals from three distributors of truck-mounted hydroexcavators. Each manufacturer was provided detailed requirements to ensure the equipment quoted was comparable. Proposals were received from Plumbers Depot, Inc., Municipal Maintenance Equipment, and Haaker Equipment Company, as summarized below:

| Vendor | Manufacturer | Bid Amount |
|---------------------------------|--------------|------------|
| Plumber's Depot, Inc. | GapVax | \$502,050 |
| Municipal Maintenance Equipment | Vac-Con | \$521,715 |
| Haaker Equipment Co., Inc. | Vactor | \$550,933 |

The low bidder among the submitted proposals was Plumber's Depot, Inc., a distributor of GapVax brand equipment. The Plumber's Depot proposal is included as Exhibit "A".

As part of its due diligence regarding the GapVax hydroexcavator, IRWD staff visited Santa Margarita Water District (SMWD) which has owned and operated GapVax hydroexcavator for four years. IRWD staff spoke with SMWD operations and maintenance staff regarding their experience with this hydroexcavator. They thought highly of the GapVax hydroexcavator, as it has had a good record of performance and reliability.

FISCAL IMPACTS:

Sufficient funds for the hydroexcavator are included in the Fiscal Year 2020-21 Operating Budget.

ENVIRONMENTAL COMPLIANCE:

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

COMMITTEE STATUS:

Construction awards are not typically reviewed by a Committee.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE A CONTRACT WITH PLUMBER'S DEPOT, INC. IN THE AMOUNT OF \$502,050 TO PURCHASE ONE NEW HYDROEXCAVATOR.

LIST OF EXHIBITS:

Exhibit "A" – Plumber's Depot Proposal

SOURCEWELL CONTRACT NO. 122017-GPV



PREPARED BY

Plumber's Depot

PREPARED FOR

John Dayer

Irvine Ranch Water District
3512 Michelson Drive
Irvine, CA 92612

QUOTE

GapVax



QUOTE ID
2121-9865

UPDATED:
02/17/21

GapVax



2022 VHE1012-3S4X HYDRO EXCAVATOR

QUOTE ID: 2121-9865

February 17, 2021

NOTE: THE GAPVAX VHE UNIT MAY EXCEED FEDERAL BRIDGE ALLOWABLE WEIGHTS WHEN LOADED WITH WATER, OR DEBRIS, AND/OR BOTH WATER AND DEBRIS COMBINED. PLEASE CONSULT FACTORY.

| | OPTION DESCRIPTION | NOTES | QTY |
|--------|---|-----------------|----------|
| CHA111 | CUSTOMER SUPPLIED CNG POWERED CHASSIS | MODEL YEAR 2022 | 1 |
| | Kenworth T880 400HP Cummins ISX12N With Automatic Transmission | | 1 |
| STD | 12 USABLE YARD DEBRIS TANK MADE OF 3/16" ASTM A-572 GRADE 50 EXTEN STEEL | | STANDARD |
| STD | FULL-OPENING REAR TAILGATE | | STANDARD |
| STD | STAINLESS STEEL TAILGATE SEALING ROD | | STANDARD |
| STD | FOUR HYDRAULIC REAR DOOR LOCKS | | STANDARD |
| STD | DUAL TAILGATE LIFT CYLINDERS | | STANDARD |
| STD | FRONT MOUNTED HOIST CYLINDER, POWER UP AND DOWN, 55,000 LB CAPACITY | | STANDARD |
| STD | THREE TIE-OFF ANCHORS ON TOP OF BODY | | STANDARD |
| STD | FIVE YEAR WARRANTY ON DEBRIS TANK AGAINST RUST THROUGH, DISTORTION AND CRACKS | | STANDARD |
| A24A | DECANT HALF WAY UP TAILGATE - 6" BRASS LEVER VALVE WITH HANDLE | | 1 |
| A3 | LEVEL INDICATOR ON TAILGATE | | 1 |
| A11A | FILTER SCREEN FOR DRAIN VALVE (SHORT BOX) | REQUIRES A2 | 1 |
| A20 | UPGRADE TO 1/4" DEBRIS TANK | | 1 |
| A21 | CURBSIDE LADDER TO PORT INSPECTION AREA | | 1 |
| A23 | ELECTRIC VIBRATOR FOR DEBRIS TANK | REQUIRES A20 | 1 |
| A37A | UPGRADE BODY INLET CANNON TO 12" HX STYLE WITH 3" CLEANOUT | | STANDARD |
| STD | 1000 GALLON WATER TANK MADE OF 3/16" 304 STAINLESS STEEL | | STANDARD |
| STD | 4" HIGH ANTI-SIPHON RING WITH (4) 2-1/2" HOLES | | STANDARD |
| STD | WATER TANK LEVEL SIGHT TUBE ON CURBSIDE | | STANDARD |
| STD | DRAIN VALVE AT BOTTOM OF WATER TANK | | STANDARD |
| STD | 3" FILL LINE WITH 2-1/2" FIRE HOSE CONNECTION CURBSIDE | | STANDARD |
| STD | 3" WATER STRAINER WITH STAINLESS STEEL SCREEN ON WATER TANK FILL LINE | | STANDARD |
| STD | 3" SUPPLY LINE TO WATER PUMP MOUNTED AT REAR OF TANK | | STANDARD |
| STD | FIVE YEAR WARRANTY ON WATER TANK AGAINST RUST THROUGH, DISTORTION AND CRACKS | | STANDARD |
| B30 | UPGRADE TO BUTTERFLY VALVE IN 3" SUPPLY LINE | | STANDARD |
| STD | DUAL STAINLESS STEEL SUTOFF FLOAT BALLS | | STANDARD |
| STD | NOISE & VIBRATION DAMPENING MOUNTS | | STANDARD |
| STD | STAINLESS STEEL VEE-WIRE SAFETY SCREEN | | STANDARD |
| STD | 6" SAFETY VACUUM RELIEF | | STANDARD |
| STD | PANIC SWITCH FUNCTION FOR VACUUM | | STANDARD |

EXHIBIT "A"

| | | | |
|--------|---|---|----------|
| C8 | UPGRADE TO ROOTS TYPE VACUUM PUMP 4,500 CFM AND 18" HG | | 1 |
| STD | PRESSURE REGULATOR WITH ADJUSTABLE HANDWHEEL AND A SAFETY REGULATOR MOUNTED ON THE PUMP | (HX GUN NOT INCLUDED) | STANDARD |
| STD | LOW POINT DRAIN VALVES ON WATER LINES | | STANDARD |
| D315SA | 19 GPM / 2,900 PSI GIANT LP200 - SHAFT DRIVE VIA AUTO TRANS PTO | INCLUDES GEARBOX | 1 |
| D25B | 100' X 1/2" HAND GUN REEL FOR HX SYSTEM | | 1 |
| D35B | 1/2" HX LANCE WITH 6' EXTENSION AND RIPSAW NOZZLE | | 1 |
| E6 | REMOTE LUBE FOR BOOM LIFT AND ROTATION | NOT COMPATIBLE WITH E11, E12, OR E13 | 1 |
| E13 | 8" REAR MOUNTED TELESCOPING BOOM WITH 17' TO 25' REACH FROM CENTER | FOR VHE1012 - REQUIRES 1/4" DEBRIS TANK | 1 |
| STD | OPERATOR CONTROL PANEL ON CURBSIDE | | STANDARD |
| G330B | 16" X 20" STAINLESS CONTROL BOX WITH WINDOW ON CURBSIDE | | STANDARD |
| STD | CAB-MOUNTED AIR SHIFT CONTROLS FOR BLOWER AND HYDRAULICS | | STANDARD |
| STD | VACUUM AND BOOM CONTROL SWITCHES, VACUUM AND HYDRAULIC GAUGES | | STANDARD |
| STD | PANIC SWITCH TO RELIEVE VACUUM | | STANDARD |
| STD | 30' PENDANT REMOTE WITH BOOM FUNCTIONS | | STANDARD |
| G2B | DM430 DISPLAY MOUNTED ON SIDE CONTROL PANEL, SAFETY SYSTEM WITH SENSORS, WARNINGS AND DIAGNOSTICS | REQUIRES TRANSMISSION PTO | 1 |
| G4 | HIGH DEBRIS LEVEL LIGHT & ALARM | REQUIRES A3 | 1 |
| G5 | BLOWER TEMPERATURE GUAGE | | 1 |
| G15 | BOOM UP LIGHT | | 1 |
| G21B | WIRELESS REMOTE WITH BOOM, VACUUM AND HX WATER ON/OFF | | 1 |
| | OMNEX T110 WIRELESS REMOTE | | STANDARD |
| STD | TRUCK-LITE LED RUNNING (MARKER) LIGHTS | | STANDARD |
| STD | LED STOP/TAIL/TURN LIGHT WITH POLISHED STAINLESS STEEL BOXES | | STANDARD |
| H5C | (2) BOOM WORK LIGHTS - HIGH INTENSITY HELL PB1500 LED WORK LIGHTS (PN: LHT022406) | | 1 |
| H6C | (2) REAR WORK LIGHTS - HIGH INTENSITY HELL PB1500 LED WORK LIGHTS (PN: LHT022406) | | 1 |
| H7BA | (2) SIDE WORK LIGHTS - HELLA LED WORK LIGHTS (PN: LHT022429) (1 PER SIDE) | | 1 |
| H18C | REAR WHELEN ION SUPER LED FLASHERS - 6 LIGHT HEADS | | 1 |
| | 3 ON EACH SIDE REAR (1 @ 45 DEGREES) | | 1 |
| H22 | REAR ARROW LIGHT - LOW PROFILE LED ARROW STICK (CLASS-1 (SAE J595)) | (WHELEN TAM85 OR EQUAL) | 1 |
| STD | 25' FIRE HOSE BASKET | | STANDARD |
| I6C-DS | UPGRADE STD. TOOLBOX TO ALUMINUM, 30" WIDE X 24" TALL X 24" DEEP, MOUNTED ON THE DRIVER'S SIDE | | 1 |
| I9B | 48" TOOL BOX - ALUMINUM, 48" WIDE X 24" TALL X 24" DEEP, MOUNTED ON THE CURBSIDE | | 1 |
| I14 | TRAFFIC CONE HOLDER ON DRIVER'S SIDE | (TRAFFIC CONES NOT INCLUDED) | 1 |
| I14C | TRAFFIC CONE HOLDER ON CURBSIDE | (TRAFFIC CONES NOT INCLUDED) | 1 |
| I16A | WHEEL CHOCK HOLDER (PER SIDE) - DRIVER'S SIDE | | 1 |
| I16B | WHEEL CHOCK HOLDER (PER SIDE) - CURBSIDE | | 1 |
| I22 | UPGRADE TUBE TRAYS TO POLISHED STAINLESS STEEL | | 1 |
| STD | DOT LIGHTING / FENDERS / MUD FLAPS / TAILGATE SAFETY PROP, ICC LIGHTS | | STANDARD |
| STD | REMOTE ACTUATED BODY SAFETY PROP | | STANDARD |
| STD | 70 GALLONS AW-46 HYDRAULIC OIL, LEVEL/TEMPERATURE GAUGE, SHUTOFF ON SUCTION | | STANDARD |
| STD | REAR BUMPER | | STANDARD |
| STD | TRIANGLE KIT, FIRE EXTINGUISHER, BACKUP ALARM | | STANDARD |

EXHIBIT "A"

| | | | |
|--------------|---|-------------------------|----------|
| J-CNG | CNG POWERED CHASSIS UPFIT | | 1 |
| J4B | TOW HOOKS REAR - FRAME MOUNTED | | 1 |
| J4A | TOW HOOKS REAR - HEAVY DUTY WELDED | REQUIRES J16 | 1 |
| J22 | STAINLESS STEEL DUMP APRON / PAN ON REAR BUMPER | NOT COMPATIBLE WITH J16 | 1 |
| J303 | ADD HYDRAULIC OIL COOLER TO CIRCUIT | | 1 |
| STD | PAINTED WITH PPG URETHANE PAINT | | STANDARD |
| STD | PAINT BODY WHITE | | STANDARD |
| STD | PAINT FRAME BLACK | | STANDARD |
| STD | PAINT PARTS AND BOOM BLACK | | STANDARD |
| STD | FLEET FINISH | | STANDARD |
| K6 | CONSPICUITY REFLECTIVE TAPE | | 1 |
| STD | 25 FT OF VACUUM TUBING (FOUR 8" X 5' TUBES WITH ALUMINUM ENDS, ONE 8" X 5" TUBE WITH SOFT TIP, AND FIVE (5) CLAMPS) | | STANDARD |
| STD | OPERATIONS AND MAINTENANCE MANUAL | | STANDARD |
| M3 | FILL HOSE 25' X 2 1/2" | | 1 |
| M29 | ONE CAMERA - BACK-UP CAMERA SYSTEM WITH 7" COLOR MONITOR, TV-505A | | 1 |



PRICING SUMMARY

| | | |
|----------------------------------|-------------------|----------------------|
| PRICE OF BASE UNIT WITH OPTIONS: | | \$ 459,907.23 |
| DELIVERY: (\$1,000.00 MINIMUM) | @ \$3.00 PER MILE | \$ 6,500.00 |
| SUBTOTAL: | | \$ 466,407.23 |
| SALES TAX: | | \$ 35,642.81 |
| TOTAL PRICE (PER UNIT): | | \$ 502,050.04 |

DUE TO EXTREME MARKET VOLATILITY AND PENDING U.S. GOVERNMENT SECTION 232 TRADE CASES ALL PRICES AND AVAILABILITY ARE SUBJECT TO CHANGE WITHOUT NOTICE, ALL QUOTES TO BE CONFIRMED AT TIME OF ORDER

*** FOB DESTINATION ***

SIGNATURE

DATE

Please return a signed copy to betty@gapvax.com

QUOTE ID
2121-9865

LAST UPDATE:
02/17/21

GapVax Incorporated

Terms and Conditions of Sale

1. **ORDERS.** All orders are subject to acceptance by an officer of GapVax Inc. Orders for products not regularly carried in stock or requiring special engineering or manufacture are in every case subject to approval by an officer of GapVax.
2. **PERFORMANCE.** GapVax Inc. shall not be liable for failure to complete the contract in accordance with its terms if failure is due to wars, strikes, fires, floods, accidents, delays in transportation or other causes beyond its reasonable control.
3. **EXPERIMENTAL WORK.** Work performed at customer's request such as sketches, drawings, design, testing, fabrication and materials shall be charged at current rates.
4. **SKETCHES, ENGINEERING DRAWINGS, MODELS and all preparatory work created or furnished by GapVax Inc. shall remain its exclusive property; and no use of same shall be made, nor may ideas obtained therefrom be used, except with the consent of and on terms acceptable to GapVax Inc.**
5. **CANCELLATION.** Orders regularly entered cannot be canceled except upon terms that will compensate GapVax Inc. for any loss or damage sustained.
6. **SHIPMENT.** All proposals are based on continuous and uninterrupted delivery of the order upon completion, unless specifications distinctly state otherwise. In the event that agreement is reached for GapVax Inc. to store completed items, they will be immediately invoiced to the customer and become due and payable. Storage shall be at the risk of the customer and GapVax Inc. shall be liable only for ordinary care of the property.
7. **CUSTOMER'S PROPERTY.** GapVax Inc. shall charge the customer at current rates, for handling and storing customer's property (e.g. truck chassis) held for more than thirty (30) days after notification of availability for shipment. All customer's property, or third party's property, that is stored by GapVax Inc. is at the customer's or other party's risk. GapVax is not liable for any loss or damage thereto caused by fire, water, corrosion, theft, negligence, or any cause beyond its reasonable control.
8. **PRICES.** All orders are subject to current prices in effect at the time of order acknowledgment.
9. **F.O.B. POINT.** Unless otherwise stated, all prices listed are F.O.B. point of manufacture.
10. **TAXES.** Unless specifically stated, prices listed do not include Federal, State, City or other excise occupation, sales, use or similar taxes which are extra and are to be added at rates in effect at time of shipment. If federal Excise Taxes are included or listed on the reverse side of this paper, they are stated at the rates and regulations in effect at the time this order is written, and are subject to revision in accordance with rates and regulations in effect at time of shipment.
11. **PRODUCT IMPROVEMENT.** GapVax Inc. reserves the right to change manufacturing specifications and procedures without incurring any responsibility for modifying previously shipped products.
12. **MOUNTING PRICES.** Mounting prices assumes normal factory installation on a truck chassis suitable for the unit purchased. Relocation of batteries, gas tanks, mufflers, air tanks, etc. will be an additional charge, billed at the standard factory labor rate.
13. **WARRANTY.** GapVax Inc. warrants its products to be free from defects in material and workmanship, subject to the limitations and conditions set forth in its current published warranty but makes no warranty of merchantability or fitness for any particular purpose. GapVax Inc. does not assume liability for any loss of product, time or any direct, indirect, or consequential damage, losses or delay or any nature whatsoever. No warranty, express or implied, is made or authorized to be made and no obligation is assumed or authorized to be assumed with respect to products of GapVax Inc. other than that set forth in the current, published warranty. It is to be understood that the acceptance this order is expressly conditioned upon your acceptance of GapVax Inc. standard written warranty for the products sold hereunder GapVax Inc. hereby disclaims any responsibility or liability for any consequential losses delays or downtime resulting from orders hereunder the use of its products. GapVax does not and will not warranty any tank coating or tank lining. PTO damage is not covered when the PTO protection system or low water shut down system is not selected / installed / and operational.
14. This agreement shall be construed according to the laws of the State of Pennsylvania. Our failure at anytime to exercise any right we may have under the agreement shall not constitute a waiver thereof nor prejudice our right to enforce same thereafter.
15. This order, including the above terms and conditions contains the complete and final agreement between the parties hereto and no other agreement in any way modifying any of said terms and conditions will be binding on us unless in writing and agreed to by authorized representative of this company.

April 26, 2021

Prepared by: B. Rios / K. Lew

Submitted by: K. Burton

Approved by: Paul A. Cook



CONSENT CALENDAR

PLANNING AREA 12 INNOVATION PARK REGIONAL ZONE A RECYCLED WATER IMPROVEMENTS

SUMMARY:

Irvine Community Development Company, LLC (ICDC) is proceeding with development of Planning Area (PA) 12 Innovation Park, which includes the construction of streets, storm drains, domestic water, sewer, and recycled water improvements. As part of the development, ICDC will construct IRWD capital facilities under an existing Supplemental Reimbursement Agreement. Staff recommends that the Board authorize the General Manager to accept ICDC's construction contract with Paulus Engineering, Inc. in the amount of \$1,107,770.03 for the Innovation Park Regional Zone A Recycled Water Improvements.

BACKGROUND:

ICDC is moving forward with the first phase of commercial development of PA 12, Innovation Park. Innovation Park is bound by the I-5 freeway, Orange County Transportation Authority (OCTA) railroad, Sand Canyon Avenue and Oak Creek's golf course. The project location map is shown as Exhibit "A". As part of this development, ICDC will design and construct IRWD's Innovation Park Regional Zone A Recycled Water Improvements. The required IRWD capital facilities are documented in the January 2020 Planning Area 12 Regional Recycled Water Study and all subsequent addendums and updates prepared by Stantec Consulting Services, Inc.

The design and construction of the IRWD capital facilities will be performed under the terms of the Master Reimbursement Agreement between IRWD and ICDC approved by the Board in May 1997 and as further refined in the Supplemental Reimbursement Agreement. This agreement, which covers all capital facilities for the Innovation Park development was approved by the Board in November 2019.

The Innovation Park Regional Zone A Recycled Water Improvements consist of a connection between the Zone A pipeline in Walnut Avenue with the 24-inch Zone A pipeline in Irvine Center Drive, via a route through Valley Oak Drive and Oak Canyon. This looped connection not only provides increased reliability to the dual plumbed buildings in Innovation Park, but also provides benefits to the existing regional recycled water system. The project consists of approximately 5,500 feet of 8-inch recycled water pipeline and 300 feet of 6-inch recycled pipeline. The project also includes 200 feet of bore and jack installation under the OCTA railroad. ICDC retained Stantec to prepare the plans and received bids from four contractors. The bids ranged from \$1,107,770.03 to \$1,603,643.70. ICDC recommends awarding the construction contract to the low bidder, Paulus Engineering, for a bid amount of \$1,107,770.03 as shown in Exhibit "B". In addition, ICDC has received consultant proposals for construction support and management, geotechnical observation and testing, surveying, field archeological and paleontological monitoring, biological and botanical monitoring, and tree monitoring

services. Staff has reviewed the consultant proposals and the construction bids and found the amounts to be acceptable. A summary of the PA 12 Innovation Park Regional Zone A Recycled Water Improvements costs is shown below.

| | |
|--|--------------------|
| Construction (Paulus) | \$1,107,770.03 |
| Civil Engineering (Stantec) | \$32,800.00 |
| Construction Management (Stantec) | \$39,060.00 |
| Geotechnical Services (NMG) | \$34,805.00 |
| Survey and Staking (Stantec) | \$16,830.00 |
| Archeo/Paleo Monitoring (LSA) | \$9,400.00 |
| Biological/Botanical (Rodney Harmsworth) | \$330.00 |
| Tree Monitoring (Dudek) | \$3,420.00 |
| ICDC Administration Fee (1%) | <u>\$11,077.70</u> |
| | \$1,255,492.73 |

FISCAL IMPACTS:

Project 11584 for the PA 12 Innovation Park Regional Zone A Recycled Water Improvements is included in the FY 2020-21 Capital Budget and has a sufficient budget.

ENVIRONMENTAL COMPLIANCE:

Construction of capital recycled water facilities for the PA 12 Innovation Park development is subject to CEQA. In conformance with the California Code of Regulations Title 14, Chapter 3, Article 7 an Environmental Impact Report was certified by the City of Irvine, the lead agency, on August 14, 2008 (SCH# 2000071014).

COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on April 20, 2021.

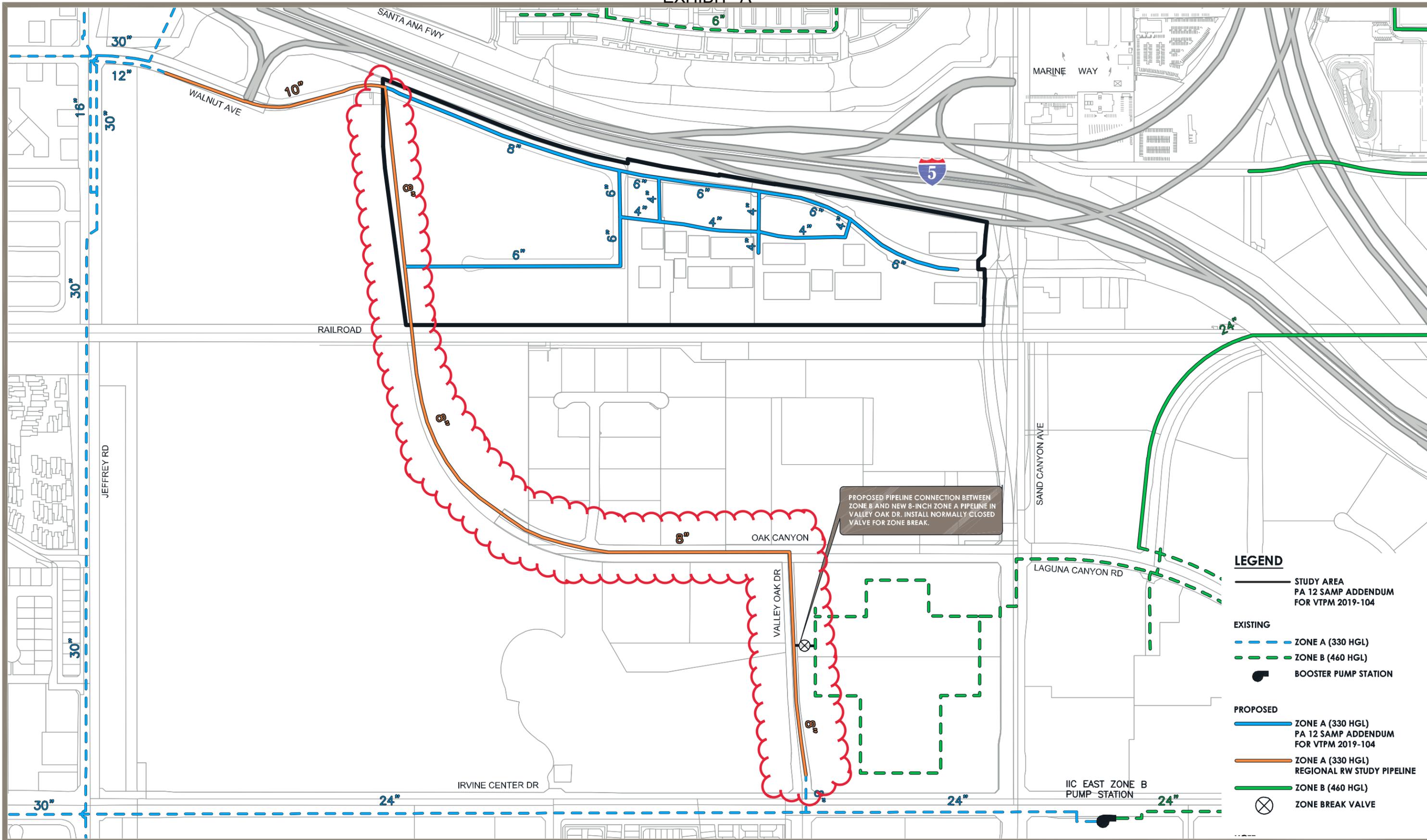
RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO ACCEPT IRVINE COMMUNITY DEVELOPMENT COMPANY'S CONSTRUCTION CONTRACT WITH PAULUS ENGINEERING, INC. IN THE AMOUNT OF \$1,107,770.03 FOR THE PLANNING AREA 12 INNOVATION PARK REGIONAL ZONE A RECYCLED WATER IMPROVEMENTS, PROJECT 11584.

LIST OF EXHIBITS:

- Exhibit "A" – Location Map
- Exhibit "B" – Bid Summary, Planning Area 12 Innovation Park, Regional Zone A Recycled Water Improvements

EXHIBIT "A"



DRAWING: v:\2042\active\2042486920\design\analysis\samp addendum\regional rw analysis\figures\cad\fig 1.dwg PLOTTED: 9/6/2019 2:03 PM BY: Lu, Michael (Irvine)

Note: This page is intentionally left blank.

EXHIBIT "B"

BID SUMMARY
INNOVATION PARK
 P.M. 2002-213, 97-184 & 94-200
IRWD OFF-SITE RECYCLED WATER AND DOMESTIC WATER
CONTRACT "B2" - WET UTILITIES (PREVAILING WAGE)
IRWD CAPITAL IMPROVEMENTS
CAPITAL PROJECT NUMBER 11548 / IRWD CODE 7601
TASK/PC ID NO. LD-5070.ST.01.cn01
BID PACKAGE NO. B00456

DS
 TM
 c. James Yoshida
 Mike Morse
 Jeff Moss
 DS - File with Bid Key Map
 Mary Oshima - Cost Matrix

PRE-BID MEETING DATE: November 2, 2020
 BID OPENING DATE: December 3, 2020
 WITNESSED BY: M. Morse
 M. Oshima

DECLINED PRIOR TO PRE-BID:
NO SHOW AT PREBID:
DID NOT SUBMIT:

| | | | | |
|---------------------------------------|-----------------------------|--|---|----------------------------|
| ENGINEER'S ESTIMATE Stantec | LOW BIDDER Paulus | 2ND BIDDER Shoffelt Pipeline | 3RD BIDDER L&S Construction | 4TH BIDDER FYDAQ |
|---------------------------------------|-----------------------------|--|---|----------------------------|

CHECK LIST

Required items to be included in bid package:

- Signed Addendum 1-3
- Corporate Seal (if applicable)
- Correct Signatures (Page V-3)
- Bid Totals Correctly
- List of SubContractors
- Equipment/Material Source Information
- Contractors Rates/Reviewed
- 10% Bid Bond
- Construction Schedule
- Non-Collusion Certificate
- Contractor Prequalified
- Fuel Letter

X
X
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Not Required

X
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Not Provided
Not Signed

Not Required

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Not Provided

Not Required

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X
X

Not Provided

Not Required

| ITEM DESCRIPTION | QTY | UNIT | UNIT PRICE | TOTAL |
|--|-------|------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|
| I. BASE CONTRACT | | | | | | | | | | | | |
| A. GENERAL | | | | | | | | | | | | |
| 1 MOBILIZATION (NOT TO EXCEED 2% OF CONTRACT PRICE) | 1 | LS | \$30,000.00 | \$30,000.00 | \$7,178.00 | \$7,178.00 | \$7,500.00 | \$7,500.00 | \$25,000.00 | \$25,000.00 | \$5,000.00 | \$5,000.00 |
| 2 DEVELOP CONSTRUCTION WATER | 1 | LS | \$5,000.00 | \$5,000.00 | \$1,500.00 | \$1,500.00 | \$4,500.00 | \$4,500.00 | \$2,500.00 | \$2,500.00 | \$1,000.00 | \$1,000.00 |
| 3 PAYMENT AND PERFORMANCE BONDS | 1 | LS | \$10,000.00 | \$10,000.00 | \$14,200.00 | \$14,200.00 | \$19,600.00 | \$19,600.00 | \$18,500.00 | \$18,500.00 | \$16,656.80 | \$16,656.80 |
| 4 INTERIM EROSION AND SEDIMENT CONTROL | 1 | LS | \$5,000.00 | \$5,000.00 | \$1,500.00 | \$1,500.00 | \$1,800.00 | \$1,800.00 | \$7,500.00 | \$7,500.00 | \$27,410.00 | \$27,410.00 |
| 5 TRAFFIC CONTROL - CAPITAL RECYCLED WATER | 1 | LS | \$88,000.00 | \$88,000.00 | \$9,500.00 | \$9,500.00 | \$3,500.00 | \$3,500.00 | \$25,000.00 | \$25,000.00 | \$24,400.00 | \$24,400.00 |
| 6 TRAFFIC CONTROL - SLURRY, STRIPING AND MARKINGS | 1 | LS | \$10,000.00 | \$10,000.00 | \$16,898.30 | \$16,898.30 | \$3,500.00 | \$3,500.00 | \$3,500.00 | \$3,500.00 | \$0.00 | \$0.00 |
| 7 INSTALL 8' HIGH SQUARE WOOD POST AND ORANGE CAUTIONARY SIGN READING "OVERHEAD POWER LINES", WITH FLASHING LIGHT BEACON ON TOP OF POST | 2 | EA | \$600.00 | \$1,200.00 | \$1,420.08 | \$2,840.16 | \$750.00 | \$1,500.00 | \$1,850.00 | \$3,700.00 | \$750.00 | \$1,500.00 |
| B. SITE PREPARATION | | | | | | | | | | | | |
| 8 SITE CLEARING AND GRUBBING | 1 | LS | \$9,600.00 | \$9,600.00 | \$14,600.00 | \$14,600.00 | \$2,800.00 | \$2,800.00 | \$4,200.00 | \$4,200.00 | \$3,150.00 | \$3,150.00 |
| 9 REMOVE AND REPLACE EXISTING IRRIGATION SYSTEM | 1 | LS | \$2,500.00 | \$2,500.00 | \$2,412.54 | \$2,412.54 | \$2,500.00 | \$2,500.00 | \$2,500.00 | \$2,500.00 | \$1,575.00 | \$1,575.00 |
| C. IRWD RECYCLED WATER (CAPITAL IMPROVEMENTS) | | | | | | | | | | | | |
| Note: All fittings, bends, tees, thrust blocks, flanges, and other incidental items are to be included in the pipe unit price. | | | | | | | | | | | | |
| 10 FURNISH & INSTALL 8" AWWA C-900 PVC PURPLE PIPE, (DR-14) & TRENCHING PER IRWD STD DWG W-17 | 5,515 | LF | \$105.00 | \$579,075.00 | \$79.50 | \$438,442.50 | \$138.00 | \$761,070.00 | \$115.00 | \$634,225.00 | \$107.75 | \$594,241.25 |
| 11 FURNISH & INSTALL 6" AWWA C-900 PVC PURPLE PIPE, (DR-14) & TRENCHING PER IRWD STD DWG W-17 | 310 | LF | \$55.00 | \$17,050.00 | \$151.50 | \$46,965.00 | \$60.00 | \$18,600.00 | \$70.00 | \$21,700.00 | \$90.00 | \$27,900.00 |
| 12 FURNISH & INSTALL 1" (AV) AIR RELEASE & VACUUM RELIEF ASSEMBLY PER IRWD STD DWG W-11 | 5 | EA | \$5,000.00 | \$25,000.00 | \$6,724.78 | \$33,623.90 | \$3,700.00 | \$18,500.00 | \$8,300.00 | \$41,500.00 | \$7,898.00 | \$39,490.00 |
| 13 FURNISH & INSTALL BLOWOFF/BOTTOM DRAIN ASSEMBLY PER IRWD STD DWG W-14 | 6 | EA | \$6,500.00 | \$39,000.00 | \$10,825.00 | \$64,950.00 | \$3,800.00 | \$22,800.00 | \$9,800.00 | \$58,800.00 | \$19,419.00 | \$116,514.00 |
| 14 FURNISH & CONSTRUCT 16" O.D. WITH 5/16" THICK STEEL CASING PER IRWD STD W-14 | 217 | LF | \$1,000.00 | \$217,000.00 | \$460.00 | \$99,820.00 | \$420.00 | \$91,140.00 | \$475.00 | \$103,075.00 | \$329.90 | \$201,788.30 |
| 15 FURNISH & INSTALL 8" DIP SPOOL, TRENCH & BEDDING PER IRWD STD W-17 | 34 | LF | \$100.00 | \$3,400.00 | \$132.13 | \$4,492.42 | \$75.00 | \$2,550.00 | \$280.00 | \$9,520.00 | \$144.15 | \$4,901.10 |
| 16 FURNISH & INSTALL TEMP END OF LINE FLUSH-OUT ASSEMBLY PER IRWD STD W-12 | 2 | EA | \$2,500.00 | \$5,000.00 | \$3,713.34 | \$7,426.68 | \$650.00 | \$1,300.00 | \$2,050.00 | \$4,100.00 | \$2,935.00 | \$5,870.00 |
| 17 REMOVE TEMP FLUSH OUT & JOIN | 2 | EA | \$1,500.00 | \$3,000.00 | \$4,576.23 | \$9,152.46 | \$2,500.00 | \$5,000.00 | \$2,650.00 | \$5,300.00 | \$1,915.00 | \$3,830.00 |
| 18 FURNISH & INSTALL 8" (RWGV) RESILIENT WEDGE GATE VALVE (FE) AWWA C-509, CLASS 150 & THRUST BLOCK PER IRWD STD DWGS W-22 & W-16 | 11 | EA | \$2,200.00 | \$24,200.00 | \$1,700.00 | \$18,700.00 | \$1,400.00 | \$15,400.00 | \$1,500.00 | \$16,500.00 | \$1,479.75 | \$16,277.25 |
| 19 FURNISH & INSTALL 6" (RWGV) RESILIENT WEDGE GATE VALVE (FE) AWWA C-509, CLASS 150 & THRUST BLOCK PER IRWD STD DWGS W-22 & W-16 | 4 | EA | \$1,600.00 | \$6,400.00 | \$1,363.59 | \$5,454.36 | \$975.00 | \$3,900.00 | \$1,100.00 | \$4,400.00 | \$1,105.75 | \$4,424.00 |
| 20 REMOVE EXISTING END CAP, THRUST BLOCK OR TEMPORARY FLUSH OUT & JOIN WITH 8"x6" REDUCER (POxPO) | 1 | EA | \$1,500.00 | \$1,500.00 | \$3,459.12 | \$3,459.12 | \$2,600.00 | \$2,600.00 | \$2,600.00 | \$2,600.00 | \$2,524.00 | \$2,524.00 |
| 21 FURNISH & INSTALL CATHODIC PROTECTION CASING TEST STATION PER IRWD STD. DWG CP-3 | 2 | EA | \$2,500.00 | \$5,000.00 | \$1,631.58 | \$3,263.16 | \$450.00 | \$900.00 | \$3,400.00 | \$6,800.00 | \$2,984.00 | \$5,968.00 |
| 22 FURNISH & INSTALL RECYCLED WATER WHARF HEAD HYDRANT PER IRWD STD DWG W-9 | 1 | EA | \$6,500.00 | \$6,500.00 | \$4,532.42 | \$4,532.42 | \$2,000.00 | \$2,000.00 | \$8,000.00 | \$8,000.00 | \$18,290.00 | \$18,290.00 |
| 23 ADJUST VALVE CAP TO BASE PAVE GRADE | 26 | EA | \$350.00 | \$9,100.00 | \$410.13 | \$10,663.38 | \$450.00 | \$11,700.00 | \$600.00 | \$15,600.00 | \$375.00 | \$9,750.00 |
| 24 ADJUST VALVE CAP TO FINISH GRADE | 26 | EA | \$350.00 | \$9,100.00 | \$410.13 | \$10,663.38 | \$575.00 | \$14,950.00 | \$600.00 | \$15,600.00 | \$375.00 | \$9,750.00 |
| 25 SCRRR INSURANCE - JACK AND BORE | 1 | LS | \$2,500.00 | \$2,500.00 | \$4,825.05 | \$4,825.05 | \$3,200.00 | \$3,200.00 | \$3,000.00 | \$3,000.00 | \$3,055.00 | \$3,055.00 |
| 26 SCRRR PERFORMANCE BOND - JACK AND BORE | 1 | LS | \$5,000.00 | \$5,000.00 | \$5,211.05 | \$5,211.05 | \$1,200.00 | \$1,200.00 | \$4,000.00 | \$4,000.00 | \$3,780.00 | \$3,780.00 |
| 27 SCRRR SITE SPECIFIC WORK PLAN (SSWP) - JACK AND BORE | 1 | LS | \$2,500.00 | \$2,500.00 | \$2,412.54 | \$2,412.54 | \$1,500.00 | \$1,500.00 | \$1,600.00 | \$1,600.00 | \$1,000.00 | \$1,000.00 |
| 28 SCRRR FLAGGING - JACK AND BORE | 1 | LS | \$10,000.00 | \$10,000.00 | \$10,132.62 | \$10,132.62 | \$7,000.00 | \$7,000.00 | \$22,000.00 | \$22,000.00 | \$21,000.00 | \$21,000.00 |
| 29 POTHOLE ALL EXISTING UTILITIES - JACK AND BORE | 1 | LS | \$4,500.00 | \$4,500.00 | \$8,622.26 | \$8,622.26 | \$3,500.00 | \$3,500.00 | \$8,500.00 | \$8,500.00 | \$6,425.00 | \$6,425.00 |
| 30 SCRRR REQUIREMENTS (ALL ELSE) - JACK AND BORE | 1 | LS | \$10,000.00 | \$10,000.00 | \$4,825.04 | \$4,825.04 | \$1,500.00 | \$1,500.00 | \$7,800.00 | \$7,800.00 | \$5,000.00 | \$5,000.00 |
| 31 SCRRR PLAN REVIEW - JACK AND BORE | 1 | LS | \$3,500.00 | \$3,500.00 | \$482.51 | \$482.51 | \$1,500.00 | \$1,500.00 | \$6,500.00 | \$6,500.00 | \$5,500.00 | \$5,500.00 |
| 32 ADMINISTRATION AND CONTINGENCY FEES - JACK AND BORE | 1 | LS | \$7,500.00 | \$7,500.00 | \$482.50 | \$482.50 | \$1,500.00 | \$1,500.00 | \$4,500.00 | \$4,500.00 | \$4,000.00 | \$4,000.00 |
| D. IRWD DOMESTIC WATER (CAPITAL IMPROVEMENTS) | | | | | | | | | | | | |
| Note: All fittings, bends, tees, thrust blocks, flanges, and other incidental items are to be included in the pipe unit price. | | | | | | | | | | | | |
| 33 RELOCATE EXISTING BLOW OFF/BOTTOM DRAIN ASSEMBLY PER IRWD STD DWG W-14 | 1 | EA | \$6,500.00 | \$6,500.00 | \$11,125.12 | \$11,125.12 | \$5,900.00 | \$5,900.00 | \$2,800.00 | \$2,800.00 | \$7,999.00 | \$7,999.00 |
| 34 RELOCATE EXISTING BLOW OFF OUTSIDE OF WORK AREA PRIOR TO CONSTRUCTION OF THE RECYCLED WATER PIPELINE (FURNISH & INSTALL COMPANION FLANGE WITH 2" TAP FOR TEMPORARY CONDITION) | 1 | EA | \$2,500.00 | \$2,500.00 | \$8,178.72 | \$8,178.72 | \$6,300.00 | \$6,300.00 | \$2,000.00 | \$2,000.00 | \$4,990.00 | \$4,990.00 |
| E. IRWD RECYCLED WATER (NON-CAPITAL IMPROVEMENTS) | | | | | | | | | | | | |
| Note: All fittings, bends, tees, thrust blocks, flanges, and other incidental items are to be included in the pipe unit price. | | | | | | | | | | | | |
| 35 INSTALL 2" COPPER SERVICE & METER BOX FOR FUTURE WATER METER PER IRWD STD W-2 (METER TYPE SHOWN ON PLAN VIEW) | 4 | EA | \$3,500.00 | \$14,000.00 | \$4,733.07 | \$18,932.28 | \$2,900.00 | \$11,600.00 | \$7,200.00 | \$28,800.00 | \$10,824.00 | \$43,296.00 |

BID SUMMARY
INNOVATION PARK
 P.M. 2002-213, 97-184 & 94-200
 IRWD OFF-SITE RECYCLED WATER AND DOMESTIC WATER
 CONTRACT "B2" - WET UTILITIES (PREVAILING WAGE)
 IRWD CAPITAL IMPROVEMENTS
 CAPITAL PROJECT NUMBER 11548 / IRWD CODE 7601
 TASK/PC ID NO. LD-5070.ST.01.cn01
 BID PACKAGE NO. B00456

c. Jamie Yoshida
 Mike Morse
 Terri Moss
 File with Bid Key Map
 Mary Oshima - Cost Matrix

PRE-BID MEETING DATE: November 2, 2020
 BID OPENING DATE: December 3, 2020
 WITNESSED BY: M. Morse
M. Oshima

| |
|-----------------------------------|
| DECLINED PRIOR TO PRE-BID: |
| NO SHOW AT PREBID: |
| DID NOT SUBMIT: |

| | | | | |
|---------------------------------------|-----------------------------|---|---|----------------------------|
| ENGINEER'S ESTIMATE Stantec | LOW BIDDER Paulus | 2ND BIDDER Shoffeitt Pipeline | 3RD BIDDER L&S Construction | 4TH BIDDER FYDAQ |
|---------------------------------------|-----------------------------|---|---|----------------------------|

F. RECYCLED WATER STREET REPAIR (CITY OF IRVINE)

| | | | | | | | | | | | | |
|---|---|------------|-------------|-----------------------|------------|-----------------------|-------------|-----------------------|------------|-----------------------|-------------|-----------------------|
| 36 | CONSTRUCT UTILITY TRENCH REPAIR PER COI STD PLAN 223 (SEE POT HOLE LOGS IN THE PROJECT APPENDICES, SECTION H-2, FOR EXISTING PAVEMENT THICKNESSES - FULL DEPTH AC REPLACEMENT SHALL BE EXISTING PAVEMENT THICKNESS PLUS 1") | 3,350 LF | \$120.00 | \$402,000.00 | \$17.15 | \$57,452.50 | \$28.75 | \$96,312.50 | \$46.00 | \$154,100.00 | \$51.00 | \$170,850.00 |
| 37 | GRIND EXISTING PAVEMENT 2" DEPTH & CONSTRUCT VARIABLE THICKNESS AC OVERLAY | 29,500 SF | \$3.00 | \$88,500.00 | \$1.99 | \$58,705.00 | \$1.90 | \$56,050.00 | \$2.50 | \$73,750.00 | \$2.50 | \$73,750.00 |
| 38 | TYPE II SLURRY SEAL - PUBLIC STREETS | 146,900 SF | \$1.00 | \$146,900.00 | \$0.45 | \$66,105.00 | \$0.49 | \$71,981.00 | \$0.52 | \$76,388.00 | \$0.55 | \$80,795.00 |
| 39 | MICRO-MILL EXISTING PAVEMENT | 35,000 SF | \$1.00 | \$35,000.00 | \$0.35 | \$12,250.00 | \$0.49 | \$17,150.00 | \$0.41 | \$14,350.00 | \$0.50 | \$17,500.00 |
| 40 | TRAFFIC STRIPING AND MARKINGS | 1 LS | \$10,000.00 | \$10,000.00 | \$5,790.06 | \$5,790.06 | \$21,280.00 | \$21,280.00 | \$9,000.00 | \$9,000.00 | \$12,495.00 | \$12,495.00 |
| GRAND TOTAL BASE CONTRACT BID PRICE (SECTIONS A-F) | | | | \$1,842,525.00 | | \$1,107,770.03 | | \$1,327,083.50 | | \$1,459,208.00 | | \$1,603,643.70 |

April 26, 2021

Prepared by: J. McGehee / R. Mori

Submitted by: K. Burton

Approved by: Paul A. Cook



CONSENT CALENDAR

EASTWOOD RECYCLED WATER PUMP STATIONS CONTRACT CHANGE ORDER

SUMMARY:

Pacific Hydrotech Corporation (PHC) constructed the Eastwood Zone A to B and Zone A to C Recycled Water Pump Stations project. During initial testing activities at the pump station, the existing 54-inch Zone C pipeline in Irvine Boulevard separated at the first joint outside the pipeline excavation area. At staff's request, PHC repaired the 54-inch pipe at the separation point, performed extensive interior welding of multiple pipe joints on the existing 54-inch pipeline, and constructed a concrete thrust block between the Zone B and Zone C discharge laterals from the pump station site. Staff recommends the Board approve Contract Change Order No. 12 in the amount of \$353,968.15 for work associated with the existing 54-inch diameter recycled water pipeline repairs.

BACKGROUND:

The Eastwood Recycled Water Pump Stations project includes construction of the Zone A to B Pump Station and the Zone A to C Pump Station. The Zone A to B Pump Station will meet the growth in demands to Zone B and will replace the existing Northwood Zone B Pump Station. The Zone A to C Pump Station will meet the growth in demands to Zone C and will replace the existing Orchard Hills Zone A to C Pump Station that was converted to Zone C+ service as part of the Irvine Lake Pipeline North Conversion. The project is located within the Eastwood Village development at the corner of Jeffrey and Irvine Boulevard as shown on the location map provided as Exhibit "A".

PHC has completed all major construction activities and is currently working on final cleanup and punch list items. Staff anticipates that the project will be complete next month.

Contract Change Order No. 12:

The project included construction of 54-inch by 30-inch Zone C and 54-inch by 20-inch Zone B reducing elbows located in Irvine Boulevard, just outside the pump station site. The elbows were needed to connect the pump station discharge piping to the Zone B and Zone C recycled water distribution system. To create the physical separation between the two zones, the project included the removal of a short length of existing 54-inch diameter concrete cylinder pipe, which previously served as the Irvine Lake Pipeline.

During initial testing activities at the pump station, the 54-inch Zone C pipeline in Irvine Boulevard separated at the first joint outside the pipeline excavation area. IRWD crews immediately responded to isolate the pipe, and work began on assessing the damage. PHC crews also began immediate repair activities and worked around the clock to secure the street, clear the pipe, and remove and replace the piping section that separated.

The design anticipated that the existing 54-inch concrete cylinder pipe was fully restrained with welded joints. Upon further investigation, staff determined that only a portion of the existing joints on the 54-inch pipeline were welded. As a result, when the existing 54-inch pipeline was separated into two distinct pressure zones, neither pipeline was fully restrained. To eliminate the potential for any future pipe separation events, staff directed PHC to restrain both the Zone B and Zone C pipelines through a combination of interior welding at multiple pipe joints and the construction of a concrete thrust block located between the Zone B and Zone C pipelines.

The change order includes the time, materials and equipment necessary to repair the 54-inch pipeline at the separation point, make entry into the Zone B side of the existing 54-inch pipeline and weld interior joints resulting in 120 feet of restrained length, make entry into the Zone C side of the existing 54-inch pipeline and weld interior joints resulting in 200 feet of restrained length, and construct a concrete thrust block between the Zone B and Zone C pipelines. The total cost for the additional work associated with the existing 54-inch pipeline is \$353,968.15.

Staff reviewed the change order, which is provided as Exhibit "B", and recommends Board approval of Contract Change Order No. 12 in the amount of \$353,968.15. The construction change order summary is provided as Exhibit "C".

FISCAL IMPACTS:

Projects 04400 and 04457 for the Eastwood Recycled Water Pump Stations are included in the FY 2020-21 Capital Budget. The existing budgets are sufficient to fund the recommendation presented herein.

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 October 24, 2017. Pursuant to State Guideline § 15073, the Initial Study/Mitigated Negative Declaration (IS/MND) was made available for public review for a period of 30 days from October 24, 2017 through November 22, 2017. The IS/MND was adopted by IRWD Board of Directors at its January 22, 2018 meeting. A Notice of Determination was filed with the Orange County Clerk/Recorder and the CA State Clearinghouse on January 23, 2018.

COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on April 20, 2021.

RECOMMENDATION:

THAT THE BOARD APPROVE CONTRACT CHANGE ORDER NO. 12 IN THE AMOUNT OF \$353,968.15 WITH PACIFIC HYDROTECH CORPORATION FOR WORK ASSOCIATED WITH THE EXISTING 54-INCH DIAMETER RECYCLED WATER PIPELINE REPAIRS FOR THE EASTWOOD ZONE A TO B AND ZONE A TO C RECYCLED WATER PUMP STATIONS PROJECT.

LIST OF EXHIBITS:

Exhibit "A" – Location Map

Exhibit "B" – Contract Change Order No. 12 with Pacific Hydrotech Corporation

Exhibit "C" – Construction Change Order Summary

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EXHIBIT "A"
LOCATION MAP

EASTWOOD RECYCLED WATER PUMP STATIONS



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**EXHIBIT "B"
CONTRACT CHANGE ORDER**



Irvine Ranch Water District

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

C.O. No. 12

Final

Project No. 04400, 04457

Eastwood Recycled Water Pump Stations Zone A to B and Zone A to C

Project Title

Date: 3/31/2021

| THE FOLLOWING CHANGE TO CONTRACT, DRAWINGS AND SPECIFICATIONS IS PROPOSED. | \$ ADDITIONS | \$ DELETIONS | DAYS ± |
|---|---------------|--------------|--------|
| 1. Change Request No. 23 - Repair of Existing 54" Zone B and Zone C Pipelines | 353,968.15 | 0 | 0 |
| Contract Completion Date: April 30, 2021 | | | |
| TOTAL | \$ 353,968.15 | \$ - | 0 |

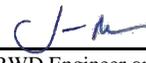
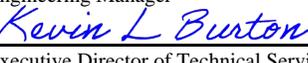
DAYS ±

| | | | | |
|---|---|----|---------------|------|
| 1. NET AMOUNT THIS CHANGE ORDER | = | \$ | 353,968.15 | 0 |
| 2. ORIGINAL CONTRACT AMOUNT | = | \$ | 12,220,600.00 | 600 |
| 3. TOTAL PREVIOUS CHANGE ORDER(S) | = | \$ | 521,185.59 | 466 |
| 4. TOTAL BEFORE THIS CHANGE ORDER (2+ 3) | = | \$ | 12,741,785.59 | 1066 |
| 5. PROPOSED REVISED CONTRACT AMOUNT TO DATE (1+4) | = | \$ | 13,095,753.74 | 1066 |

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

Three Hundred Fifty Three Thousand Nine Hundred Sixty Eight and 15/100 ----- Dollars

3/31/21 Pacific Hydrotech Corporation Sean Harns
Date Contractor By:

| SIGNATURE | DATE | APPROVAL LEVEL REQUIRED |
|---|-------------------|--|
|  | <u>3/31/2021</u> | Department Director Approval Required <input type="checkbox"/> Executive Director Approval Required <input type="checkbox"/> General Manager Approval Required <input type="checkbox"/> Board Approval Required <input checked="" type="checkbox"/> |
| IRWD Engineer or Consulting Engineer | Date | |
|  | <u>03/31/2021</u> | |
| Engineering Manager | Date | |
|  | <u>3/31/2021</u> | 610787 Purchase Order No. |
| Executive Director of Technical Services | Date | |
| General Manager | Date | |

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

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

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EXHIBIT "C"

Eastwood Recycled Water Pump Stations PR 04400, 04457 Construction Change Order Summary

Contractor: Pacific Hydrotech Corporation
Design Engineer: AECOM
Award Date: 5/30/2018

| | | | Contract Amount | | | | | | Contract Days | | | | Original Completion Date: |
|--------------|---|-----------------------|---|---------------------|------------------------|-----------------------------------|-------------------------------|-------------------------|-------------------------|------------------------|----------------------|-----------------------------|---------------------------|
| | | | Original Contract Amount: \$12,220,600.00 | | | | | | Original Days: 600 | | | | 1/20/2020 |
| Change Order | Description | Category | Change Order Line Item Amount | Change Order Amount | Previous Change Orders | Cumulative Total of Change Orders | % of Original Contract Amount | Revised Contract Amount | Change Order Days | Previous Change Orders | Cum. Total C.O. days | Revised Total Contract Days | Revised Completion Date |
| 1 | Approved by Executive Director Approved on September 11, 2018 Non-compensable assignment of temporary license agreement to Pacific Hydrotech Corporation for temporary removal and replacement of a portion of the site perimeter screening wall. | B | \$ - | \$0.00 | \$0.00 | \$0.00 | 0.00% | \$12,220,600.00 | 0 | 0 | 0 | 600 | 1/20/2020 |
| 2 | Approved by Executive Director Approved on December 12, 2018 Time Extension - Rain Days (11/29, 12/5, 12/6, and 12/7) CR No. 1 - Zone A Pipeline Repair | B B | \$ - \$ 5,844.84 | \$5,844.84 | \$0.00 | \$5,844.84 | 0.05% | \$12,226,444.84 | 8 6 2 | 0 | 8 | 608 | 1/28/2020 |
| 3 | Approved by Executive Director Approved on April 10, 2019 Time Extension - Rain Days (1/14-18, 2/1, 2/4-8, 2/13-15, 3/6, 3/21) CR No. 2 - ZC-B PRV Changes CR No. 3 - Syphon Piping Credit CR No. 4 - Landscaping | B A B A | \$ - \$ 10,649.88 \$ (10,063.42) \$ 30,682.27 | \$31,268.73 | \$5,844.84 | \$37,113.57 | 0.30% | \$12,257,713.57 | 32 22 2 0 8 | 8 | 40 | 640 | 2/29/2020 |
| 4 | Approved by Executive Director Approved on March 9, 2020 CR No. 8 - No cost time extension per Pacific Hydrotech | B | \$ - | \$0.00 | \$37,113.57 | \$37,113.57 | 0.30% | \$12,257,713.57 | 258 258 | 40 | 298 | 898 | 11/13/2020 |
| 5 | Approved by Executive Director Approved on March 9, 2020 CR No. 5 - Additional Potholing of Electrical Line CR No. 6 - Universal Automatic Transfer Switch CR No. 7 - Control Panel Redundancy Module CR No. 9 - Diaphragm Seals CR No. 10 - Bottom Drain Changes | B A A A A | \$ 4,033.35 \$ 4,081.76 \$ 2,370.07 \$ 20,968.70 \$ 15,782.95 | \$47,236.83 | \$37,113.57 | \$84,350.40 | 0.69% | \$12,304,950.40 | 0 0 0 0 0 | 298 | 298 | 898 | 11/13/2020 |
| 6 | Approved by Executive Director Approved on July 6, 2020 CR No. 11 - Additional Conduits CR No. 12 - SCE Infrastructure Changes | D C | \$ 12,284.02 \$ 15,468.53 | \$27,752.55 | \$84,350.40 | \$112,102.95 | 0.92% | \$12,332,702.95 | 0 0 0 | 298 | 298 | 898 | 11/13/2020 |
| 7 | Approved by Executive Director Approved on September 28, 2020 CR No. 13 - SCE Infrastructure Changes CR No. 14 - P-03 and P-04 Conduits Time Extension | C D | \$ 61,263.22 \$ 7,972.18 | \$69,235.40 | \$112,102.95 | \$181,338.35 | 1.48% | \$12,401,938.35 | 32 0 0 32 | 298 | 330 | 930 | 12/15/2020 |

**Eastwood Recycled Water Pump Stations
PR 04400, 04457
Construction Change Order Summary**

Contractor: Pacific Hydrotech Corporation
Design Engineer: AECOM
Award Date: 5/30/2018

| | | | Contract Amount | | | | | | Contract Days | | | | Original Completion Date: |
|--------------|--|----------------------------|---|---------------------|------------------------|-----------------------------------|-------------------------------|-------------------------|--|------------------------|----------------------|-----------------------------|---------------------------|
| | | | Original Contract Amount: \$12,220,600.00 | | | | | | Original Days: 600 | | | | 1/20/2020 |
| Change Order | Description | Category | Change Order Line Item Amount | Change Order Amount | Previous Change Orders | Cumulative Total of Change Orders | % of Original Contract Amount | Revised Contract Amount | Change Order Days | Previous Change Orders | Cum. Total C.O. days | Revised Total Contract Days | Revised Completion Date |
| 8 | Approved by Executive Director Approved on January 27, 2021 CR No. 15 - Future HVAC Conduits CR No. 17 - Surge Tank Pit Lighting CR No. 18 - MCC Breaker Lugs CR No. 19 - Antenna CR No. 20 - Thermostat Wiring CR No. 21 - Hatch Coating Time Extension | D A D D D A | \$ 5,853.54 \$ 1,390.18 \$ 2,400.26 \$ 10,507.58 \$ 3,175.53 \$ 7,114.24 | \$30,441.33 | \$181,338.35 | \$211,779.68 | 1.73% | \$12,432,379.68 | 106 0 0 0 0 0 0 106 | 330 | 436 | 1,036 | 3/31/2021 |
| 9 | Approved by Executive Director Approved on February 23, 2021 CR No. 22 - Dewatering CR No. 24 - Zone B Tie-in | B B | \$ 33,286.19 \$ 28,466.45 | \$61,752.64 | \$211,779.68 | \$273,532.32 | 2.24% | \$12,494,132.32 | 0 0 0 | 436 | 436 | 1,036 | 3/31/2021 |
| 10 | Approved by General Manager Approved on February 23, 2021 CR No. 26 - Street Repairs | B | \$ 133,278.34 | \$133,278.34 | \$273,532.32 | \$406,810.66 | 3.33% | \$12,627,410.66 | 0 0 | 436 | 436 | 1,036 | 3/31/2021 |
| 11 | Approved by Executive Director Approved on March 29, 2021 CR No. 27 - Street Repairs Time Extension | B | \$ 114,374.93 | \$114,374.93 | \$406,810.66 | \$521,185.59 | 4.26% | \$12,741,785.59 | 30 0 30 | 436 | 466 | 1,066 | 4/30/2021 |
| 12 | Approved by Board of Directors Approved on CR No. 23 - Repair of Ex. 54" Zone B and C Pipelines | B | \$ 353,968.15 | \$353,968.15 | \$521,185.59 | \$875,153.74 | 7.16% | \$13,095,753.74 | 0 0 | 466 | 466 | 1,066 | 4/30/2021 |

| Category | Total Amount | % of Original Contract |
|--|----------------------|------------------------|
| A - Owner Directed Change | \$ 93,040.05 | 0.76% |
| B - Differing/Unknown Condition | \$ 663,188.83 | 5.43% |
| C - External Agency, Regulatory, and/or Permit Required Change | \$ 76,731.75 | 0.63% |
| D - Design Oversight | \$ 42,193.11 | 0.35% |
| Total Change Order Amount (A + B + C + D) | \$ 875,153.74 | 7.16% |

April 26, 2021

Prepared by: S. Ryan / M. Cortez

Submitted by: K. Burton

Approved by: Paul A. Cook 

ACTION CALENDAR

WOODBIDGE RECYCLED WATER PIPELINE REPLACEMENT CONSULTANT SELECTION

SUMMARY:

The Woodbridge Recycled Water Pipeline Replacement will replace approximately 50,000 feet of asbestos cement pipe (ACP) distribution mains used in the recycled water system in the Woodbridge community of Irvine. Staff recommends the Board authorize the General Manager to execute a Professional Services Agreement with West Yost Associates in the amount of \$848,949 for engineering design services for the Woodbridge Recycled Water Pipeline Replacement.

BACKGROUND:

The Woodbridge Recycled Water Pipeline Replacement project will replace approximately 50,000 feet of ACP distribution mains used in the recycled water system in the Woodbridge community of Irvine. Consisting of primarily ACP, the recycled water system was originally constructed between 1975 and 1981 and has experienced many ACP failures in recent years. In 2020, HDR was retained to perform a forensic analysis of ACP and soil samples from representative sites within the project area to determine the underlying cause of the failures. HDR concluded that the ACP samples all displayed internal deterioration from the leaching of calcium content from the pipe wall. In past years, the recycled water from MWRP has been more highly chlorinated which decreased the water pH, causing the water to be more corrosive to ACP and thus decreasing its service life. Although MWRP's recycled water is currently less corrosive (and may be the reason why failures are occurring 30 to 40 years after pipe installation), the pipelines are in a degraded state from previous damage and are susceptible to breaks from normal peaks in daily pressure cycles.

Project Scope:

This project will replace ACP within the project area with diameters of 10-inches and smaller and the associated service laterals emanating from the ACP mains being replaced. Although there are larger diameter recycled water ACP transmission mains within the project area, such as the 16-inch Zone A transmission main in Barranca Parkway, the thicker wall section of larger diameter ACP provides a longer life span and there have been no issues with these larger diameter ACP mains.

The location plan provided as Exhibit "A" reflects the project limits, the recycled water ACP mains to be replaced, the locations of the pipe samples examined by HDR, and historical pipe repairs.

Consultant Selection:

Staff issued a request for proposal for the design to six consultants: Cannon Corporation, Lockwood Andrews & Newman, Inc., MKN Associates, Psomas, Stantec, and West Yost Associates. Five of the six firms submitted proposals on March 31, 2021; Psomas declined to submit a proposal. Based on the evaluation of each consultant's project approach, project team and relevant experience, staff recommends the selection of West Yost Associates.

West Yost presented a sound approach for the design of the replacement pipeline and separated itself from the other firms by showing the most thorough understanding of the design coordination that will be required with parties who will be affected by this project: Irvine Unified School District and its seven schools within the project area; Metropolitan Water District of Southern California, Laguna Beach County Water District and South Coast Water District, as the replacement pipelines will cross large transmission mains owned by these Districts (e.g., Aufdenkamp and Joint Transmission Mains); the City of Irvine regarding traffic control concepts to mitigate the effects of construction activities on vehicles, bicycles and pedestrians; and the Orange County Transportation Authority regarding the temporary closures and relocations of bus stops within the project area.

West Yost's fee is in the amount of \$848,949. Given the scope of the design and the work effort required, staff finds the fee fair and reasonable. For the reasons given above, along with West Yost's Project Manager's vast experience on IRWD projects and familiarity with IRWD's design standards, staff believes West Yost is the best qualified consultant to perform this work. The consultant evaluation matrix is provided as Exhibit "B"; the proposal provided as Exhibit "C".

FISCAL IMPACTS:

Project 11571 is included in the FY 2021-22 Capital Budget. The existing budget is sufficient to fund the recommendation presented herein.

ENVIRONMENTAL COMPLIANCE:

This project is subject to the California Environmental Quality Act (CEQA). In conformance with the California Code of Regulations Title 14, Chapter 3, Section 15004, the appropriate environmental document will be prepared when meaningful information becomes available.

COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on April 20, 2021.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE A PROFESSIONAL SERVICES AGREEMENT WITH WEST YOST ASSOCIATES IN THE AMOUNT OF \$848,949 FOR ENGINEERING DESIGN SERVICES FOR THE WOODBRIDGE RECYCLED WATER PIPELINE REPLACEMENT, PROJECT 11571.

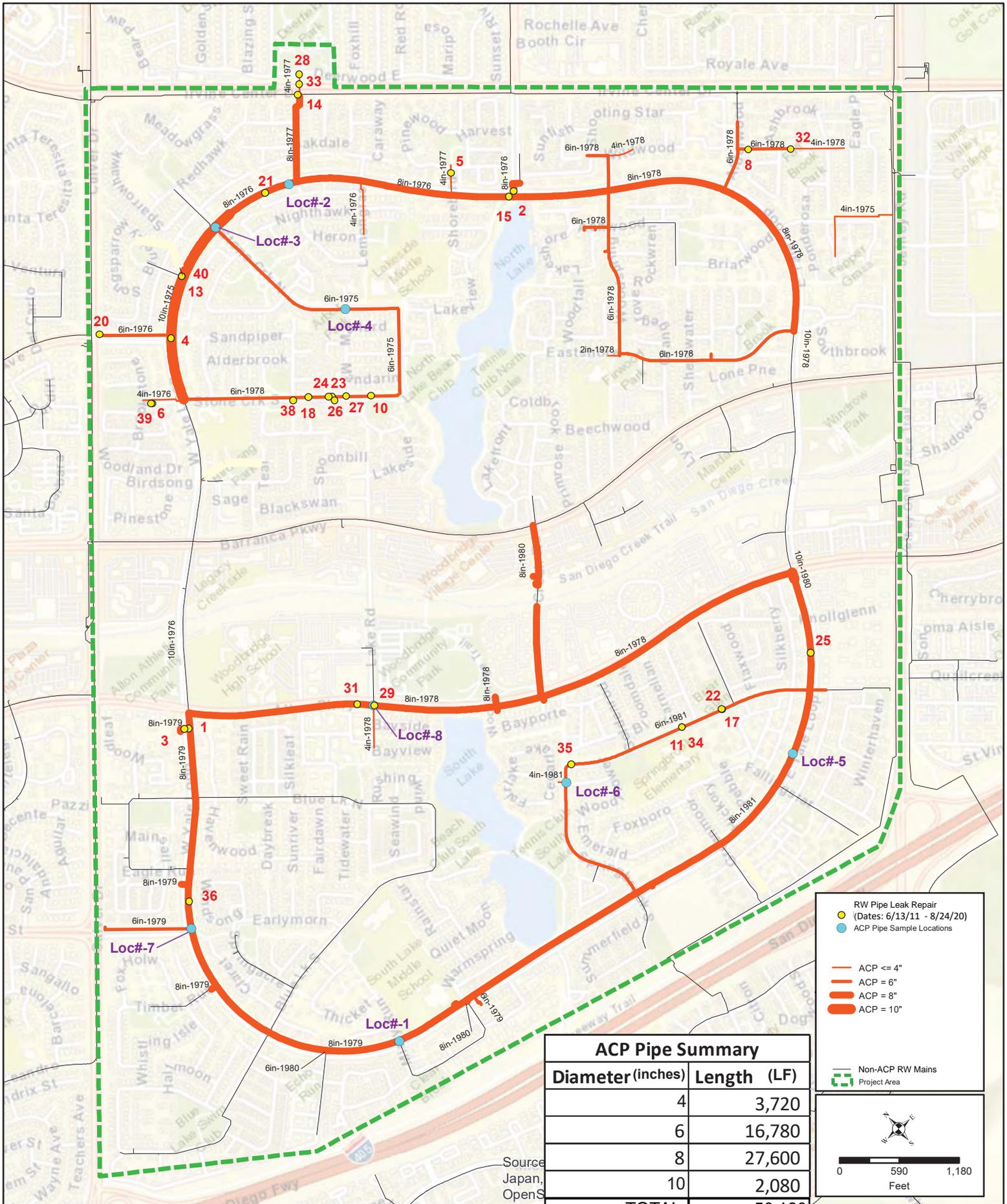
LIST OF EXHIBITS:

Exhibit "A" – Location Plan

Exhibit "B" – Consultant Selection Evaluation Matrix

Exhibit "C" – West Yost Associates' Proposal

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EXHIBIT "B"

Woodbridge RW Pipeline Replacement
Consultant Selection Matrix

| | Weights | Cannon | Lockwood, Andrews & Newman | MKN | Stantec | West Yost |
|---|---------|-------------------------------------|---|---|--|--|
| TECHNICAL APPROACH | 50% | | | | | |
| *Project Approach | 60% | 5 | 4 | 2 | 3 | 1 |
| *Scope of Work | 40% | 5 | 4 | 2 | 3 | 1 |
| Weighted Score (Technical Approach) | | 5.00 | 4.00 | 2.00 | 3.00 | 1.00 |
| EXPERIENCE | 50% | | | | | |
| *Firm/Team | 25% | 5 | 3 | 1 | 4 | 2 |
| *Project Manager | 50% | 5 | 4 | 2 | 3 | 1 |
| *Project Engineer | 25% | 5 | 4 | 2 | 3 | 1 |
| Weighted Score (Experience) | | 5.00 | 3.75 | 1.75 | 3.25 | 1.25 |
| COMBINED WEIGHTED SCORE | | 5.00 | 3.88 | 1.88 | 3.13 | 1.13 |
| Consultant Team Key Personnel | | | | | | |
| Principle-in-Charge | | Gary Ropeke, PE (LA) | Sima Vajdani, PE (LA) | Ryan Gallagher, PE (Irvine) | Tama Snow, PE | John Goodwin, PE (Sacramento) |
| Project Manager | | J. Eric Porkert, PE (Irvine) | Cenk Yavas, PE (Orange) | | Joe Long, PE | Robert Reid, PE (Lake Forest) Anne M. Girtz, PE (Lake Forest) |
| Project Engineer | | Mike Kielborn, PE, LEED AP (LA) | Bob Card, PE (Houston, TX) | Keenan Bull, PE (Irvine) | Jim Cathcart, PE | Scott Greenwood, PE (Sacramento) Christina Ramirez, PE (Sacramento) |
| Structural Engineer | | Marshall Pihl, SE (San Luis Obispo) | | | | |
| QC/QA | | Gary Ropeke, PE (LA) | | Josh Nord, PE (Bakersfield) | Autumn Glaeser, PE | Adam Brown, PE (Sacramento) |
| Surveying/ Mapping | | J Braley, PLS (LA) | | | Greg Sebourn, PLS | |
| <u>Design Engineering Support Team</u> - Civil, CADD, Horizontal Directional Drilling | | | Jonathan Lee, EIT (Orange) Mark Vargas (Orange) Christine Kirby, PE, ENV SP (Houston, TX) | Tanner Bennett, PE (Irvine) Parasto Azami, PE (Irvine) Joseph Reichmuth, PE (Arroyo Grande) | Ryan Fane, PE Cole Warrick, EIT Richard Robinson Devin Coyer, EIT | Scott Greenwood, PE (Sacramento) Christina Ramirez, PE (Sacramento) Spencer McLintock, EIT (Sacramento) Joe Hepburn, EIT (Sacramento) |
| <u>SubConsultants</u> | | | | | | |
| Traffic Control | | Right of Way, Inc. | Traffic Control Engineering, Inc. | Traffic Control Engineering, Inc. | | Traffic Control Engineering, Inc. |
| Surveying/ Mapping Investigations | | Robert J. Lung & Associates, Inc. | Guida Surveying, Inc. | Fusco Engineering | | Borchard Surveying and Mapping, Inc. |
| Potholing Investigation | | C-Below | Boudreau Pipeline Corporation | C Below Subsurface Imaging (Chino) | T2 Utilities Engineers | Underground Solutions |
| Geotechnical Investigation | | Converse Consultants | Ninyo and Moore | Ninyo & Moore | Kleinfelder | Converse Consultants |
| HOURS | | | | | | |
| Task 1 - Project Management | | 238 | 120 | 150 | 728 | 128 |
| Task 2 - Final Design | | 2,886 | 2,463 | 2,396 | 5,690 | 2,235 |
| Task 3 - Bid Phase | | 24 | 238 | 20 | N/A | 20 |
| Task 4 - Optional Task: Geotechnical | | 10 | N/A | 14 | N/A | 2 |
| TOTAL HOURS | | 3,148 | 2,821 | 2,566 | 6,418 | 2,383 |
| TOTAL HOURS w/ Opt. Geo. | | 3,158 | N/A | 2,580 | N/A | 2,385 |
| FEE | | | | | | |
| Task 1 - Project Management | | \$ 42,588 | \$ 27,320 | \$ 31,380 | \$ 167,440 | \$ 32,712 |
| Task 2 - Final Design | | \$ 606,745 | \$ 880,750 | \$ 738,878 | \$ 1,328,006 | \$ 796,378 |
| Task 3 - Bid Phase | | \$ 3,960 | \$ 39,830 | \$ 3,735 | N/A | \$ 4,427 |
| Task 4 - Optional Task: Geotechnical | | \$ 16,706 | N/A | \$ 30,582 | N/A | \$ 15,432 |
| TOTAL FEE | | \$ 653,293 | \$ 947,900 | \$ 773,993 | \$ 1,495,446 | \$ 833,517 |
| TOTAL FEE w/ Opt. Geo. | | \$ 669,999 | N/A | \$ 804,575 | N/A | \$ 848,949 |
| Number of Construction Drawings | | 76 | 150 | 152 | 111 | 156 |
| AVERAGE COST | | | | | | |
| Average \$/hour (w/ Opt. Geo.) | | \$ 212 | \$ 336 | \$ 312 | \$ 233 | \$ 356 |
| Average \$/drawing (w/ Opt. Geo.) | | \$ 8,816 | \$ 6,319 | \$ 5,293 | \$ 13,472 | \$ 5,442 |
| Professional Liability Insurance | | YES | YES | YES | YES | YES |
| General Liability Insurance | | YES | YES | YES | YES | YES |
| FORCED RANKINGS: | | 5 | 4 | 2 | 3 | 1 |
| 1 - Best | | | | | | |
| 2 - Second Best | | | | | | |
| 3 - Third Best | | | | | | |
| 4 - Fourth Best | | | | | | |
| 5 - Fifth Best | | | | | | |

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IRVINE RANCH WATER DISTRICT

Woodbridge Recycled Water Pipeline Replacement





Project Background and Understanding

The Irvine Ranch Water District (IRWD, District) operates and maintains backbone recycled water pipelines that serve the Woodbridge Village in the City of Irvine. Most of these pipelines were constructed between 1975 and 1981 when asbestos cement pipe (ACP) was extremely popular for its perceived chemical resistance to corrosion, availability, and cost, particularly for pipe diameters from 4-inch to 12-inch. Then in the 1980s, Polyvinyl chloride (PVC) pipelines replaced ACP as the preferred choice as later phases of the distribution pipelines were constructed. Therefore, the Woodbridge Village recycled water transmission and distribution pipelines are predominately comprised of ACP with some PVC pipe, with the majority being ACP.

In 2020, IRWD retained HDR to perform a forensic analysis of the underlying cause of recent ACP failures in the recycled water distribution system, and HDR took ACP and soil samples from several sites within the Village of Woodbridge. This analysis revealed significant internal deterioration of the ACP which was attributed to calcium loss caused by the moderately corrosive quality of IRWD's recycled water. Therefore, it is understood that the District's ACP segments are currently more susceptible to pipe breaks due to normal peaks in daily pressure cycles and are planned to be replaced before more failures can occur.

To proactively replace these approximately 40-year old pipelines before more failures occur, the Woodbridge Recycled Water Pipeline Replacement Project (Project) will replace approximately 50,000 linear feet of ACP recycled water distribution mains with diameters of 4-inch through 10-inches with either PVC or ductile iron pipe (DIP) in the Village of Woodbridge. This Project will also replace all existing services, all air release and vacuum relief valve assemblies originating from the ACP mains being replaced, and all isolation valves. For isolation valves located at the connections between the proposed pipelines and the pipeline to remain in service, West Yost will work with IRWD to determine which valves should be replaced in accordance with the Continuous Refurbishment criteria in the District's Replacement Planning Model.

West Yost will select alignments for the replacement pipelines that minimize conflicts with existing utilities and allow safe work areas while minimizing traffic impacts. The Project Plans and Project Manual will show the new services connecting to the existing customer meters.

Figure A-1. Project Challenges

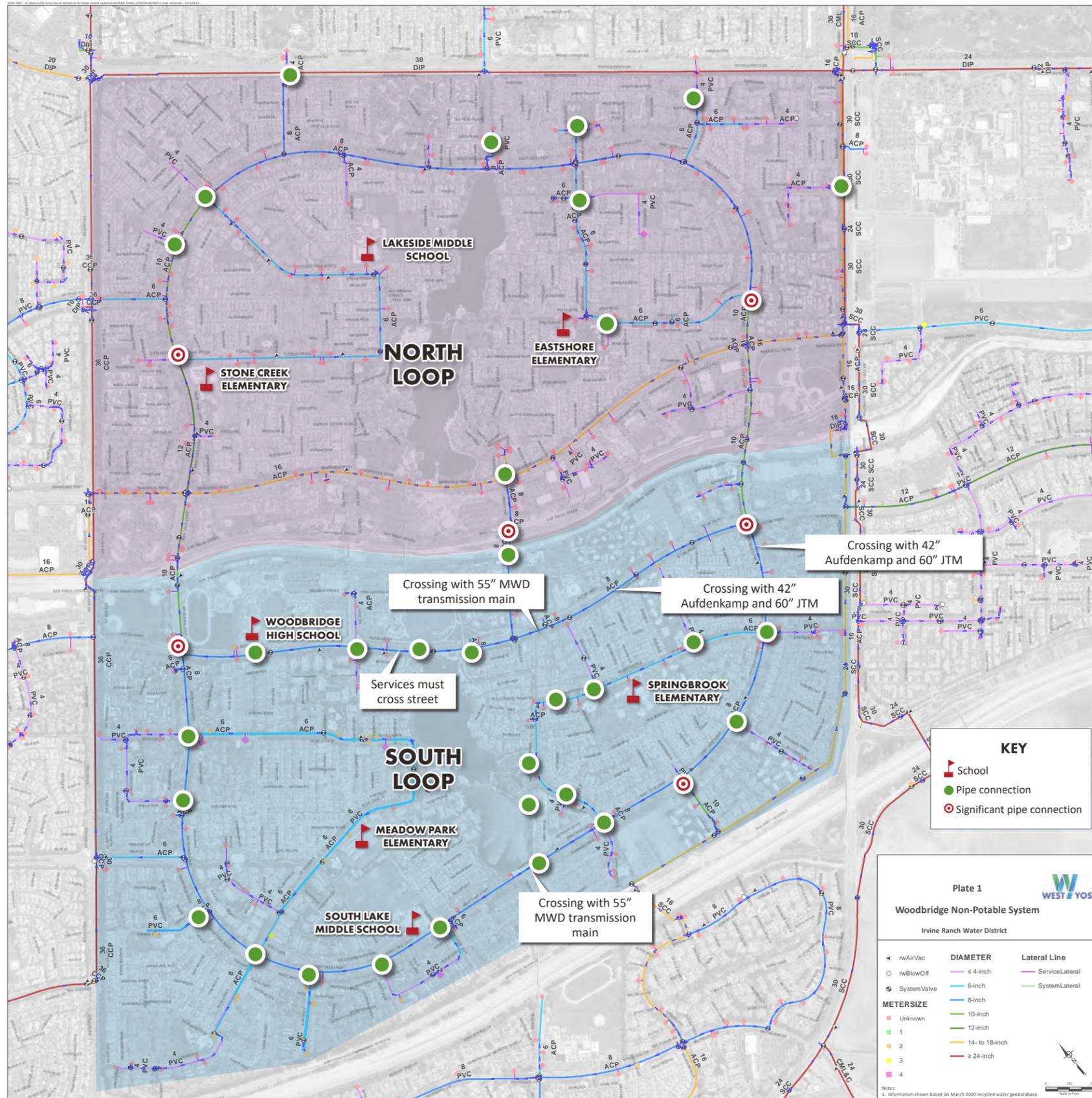


Figure A-1. West Yost has structured its team and approach to address the project’s unique challenges. One design team will focus on the north loop and a second will focus on the south loop. Each area has several significant pipe connections that will require extra and early attention before proceeding with other connections. Some work at schools will be done when classes are not in session to minimize conflicts. Coordination with the Laguna Beach County Water District (LBCWD), the Metropolitan Water District of Southern California (MWD), and South Coast Water District (SCWD) will be necessary for crossings with the Aufdenkamp Transmission Main, the MWD Transmission Main, and the Joint Transmission Main (JTM).

Project Approach

West Yost has formed a project approach comprised of the following six key elements for the Project. By emphasizing these elements, West Yost will deliver a successful design project efficiently and effectively for IRWD.

1. Effective Project Communications
2. Complete and Accurate Utility Research
3. Thorough Alignment Evaluation
4. Clear Construction Sequencing
5. Minimizing Service Disruptions, and
6. Comprehensive Quality Control and Quality Assurance

Effective Project Communications

COORDINATION WITH IRWD'S PROJECT MANAGER

West Yost's Project Manager, Robert Reid, will inform IRWD about our progress, explain our approach, and receive input on all important design decisions. He will work closely with District staff to determine optimum pipeline alignments by collaborating with the entire design team regarding the positive and negative effects of each alternative so that all parties can understand all site and system constraints. Through these interactions, we can reduce unexpected changes as the design is completed and ready to bid for construction.

COORDINATION WITH AFFECTED PARTIES

We understand that IRWD's Public Affairs will take the lead on coordinating with other affected parties about the project. To maximize the effectiveness of the District's public outreach, we believe that Robert Reid's relationships and extensive local experience makes him the ideal project manager to work with the key agencies and associations described as follows.

City of Irvine

We believe that obtaining encroachment permits from the City of Irvine will be challenging. The construction impacts to the Woodbridge community will be significant for a period that could range from six months to one year. In addition, the construction activities will impact major regional streets such as Alton Parkway, Culver Drive, Main Street, and Irvine Center Drive. Once the horizontal alignments have been determined, we will prepare a traffic concept plan which will be reviewed with IRWD before presenting it to the traffic engineer at the City of Irvine. We anticipate two or three meetings with the City to discuss the proposed traffic control concepts for vehicles, bicycles, and pedestrians which we believe will greatly reduce late design revisions as well as construction change orders and delays.



Wood Bridge along Alton Parkway

Woodbridge Village Association

In 2019, Robert coordinated with Woodbridge Village Association to construct modifications to the Joint Transmission Main Flow Control Vault in the association's office right-of-way.

Irvine Unified School District

Robert worked with the Irvine Unified School District to assist them with the planning of IRWD facilities. We plan to interact with the school district to obtain their schedules for days of instruction and the perceived limits of their school zones.

Metropolitan Water District of Southern California

A 55-inch transmission main owned by the Metropolitan Water District of Southern California (MWD) is routed through the Woodbridge community, and portions of the recycled water pipelines installed with this Project will cross MWD's transmission main at least twice. During several recent pipeline projects for local clients, Robert has had success coordinating with MWD by sending a cover letter to MWD with the Project's construction plan sheets showing the proposed crossing(s) early in the final design process.



Springbrook Pipeline Alignment with MWD Pipeline to Right

Laguna Beach County Water District

The Project involves installing recycled water pipelines that cross the existing 42-inch Aufdenkamp Transmission Main owned and operated by Laguna Beach County Water District. Robert has worked closely with Laguna Beach County Water District for pipeline crossings and has also provided them with design services related to a transmission main relocation project. We propose to discuss the proposed crossing with them early in the final design phase to obtain any special criteria necessary for inclusion into the contract documents.

Joint Regional Water Supply System (JRWSS)

The 60-inch Joint Transmission Main (JTM), formerly the Tri-Cities Transmission Main, is managed and operated by the South Coast Water District and is routed through the Woodbridge community. It will be crossed in two locations by the recycled water mains installed with this Project. Robert has worked closely with South Coast Water District on several projects in the past five years, including two projects with the JRWSS.

Orange County Transportation Authority

The proposed recycled water pipelines will be installed near existing Orange County Transportation Authority (OCTA) bus stops. The design team must work with OCTA to approve temporary closure of these bus stops during construction and possible temporary relocations. We propose early communications with OCTA to avoid issues and delays during construction.



OCTA Bus Stop

West Yost will work closely with IRWD staff to provide exhibits, project descriptions, and estimated construction durations as necessary to proactively engage and communicate effectively with all affected parties to minimize construction impacts without significantly increasing construction costs.

COMPLETE AND ACCURATE UTILITY RESEARCH

The preparation of an accurate and comprehensive existing utility base map will yield the best possible design and reduce contractor change orders. It involves:

1. Having a thorough set of record data,
2. Interpreting the record data correctly,
3. Correctly translating the record data onto the base map, and
4. Verifying in the field and correcting map information.

One of the most critical success factors for any pipeline project located in an existing street is the proper identification and mapping of the existing utilities and determining any potential conflicts. In preparing this proposal, West Yost has obtained a list of utility providers participating in the Underground Service Alert (USA) of Southern California's "Dig Alert" service, and has begun requesting available records, including any future planned projects in the area that may potentially impact the proposed construction schedule.



USA Mark-out

Once all the available utility information is obtained, it will be drafted into an AutoCAD drawing and will be combined with the topographic survey to serve as the basis for the new pipeline alignments. Our design engineers will then walk the entire project site comparing all obtained utility and topographic data to actual field conditions, noting all above ground utility features such as valve cans, manhole covers, and appurtenances, as well as any repaired pavement trench limits or other items that may inform our development of alignment alternatives. We will verify locations and items through the field measurements and adjust the locations in the drawings, if necessary, to show the exact locations based on the information to date.

The information will be back-checked in the AutoCAD drawings and base map information with utility and record data obtained. In the drawings, we will include a hyperlink to the as-built plan sets for verification.

THOROUGH ALIGNMENT EVALUATION

West Yost will recommend horizontal pipeline alignments based on the relationship between the proposed pipeline trench and adjacent utilities, the anticipated soil conditions anticipated to be found during construction, the proximity to vehicular lane lanes and travel ways, and the ability to trench near existing parallel utilities without undermining them.

Using the completed base map, West Yost will study potential horizontal alignments for approximately 50,000 feet of recycled water pipelines within the Village of Woodbridge. The recommended alignments will seek to accomplish the following goals:

- Satisfy Department of Public Health horizontal and vertical separation requirements between potable water, recycled water, storm drain, and sanitary sewer.
- Provide sufficient separation from all other buried facilities to minimize potential cave-ins and conflicts.
- Minimize traffic control measures required to create a safe work area.
- Minimize asphalt removal and replacement requirements.
- Minimize community disruptions during construction, such as aligning the pipeline to minimize the blocking of driveways.



Traffic Control Challenge: Median Curb at East Yale Loop and Springbrook

Once our design team has balanced these goals, we will create potential alignments in AutoCAD and inform the District of the benefits and disadvantages of each alignment alternative during our 25% design workshop. Our goal for the workshop will be for all design team members and District staff to agree on the final design alignment.

CLEAR CONSTRUCTION SEQUENCING

An accurate and updated schedule is critical for successful project execution. West Yost’s proposed team members have extensive experience providing design services and engineering support during construction for many of IRWD’s pipeline projects over the past 30 years as well as similar services for recycled water pipelines with similar diameters and lengths for other Southern California clients. From this experience, we will be able to prepare a detailed project schedule that will have realistic durations.

West Yost has studied the District’s schedule provided in the RFP and has reviewed the number of labor hours required to complete the design for more than 50,000-feet of pipeline. As such, we have compiled a list of key items necessary to consider:

1. West Yost proposes to use two design teams, one to complete the design of approximately 25,000 feet of pipelines within the northern portion of the Woodbridge community, and a second team to complete the design of approximately 25,000 feet of pipelines within the southern portion. This personnel structure will improve efficiency and shorten delivery time without requiring significant additional coordination time.
2. Based on our experience with IRWD construction projects, it typically requires 16 to 18 weeks from the time the Construction Notice of Award is issued to the first day of contractor mobilization. It typically has taken four weeks from the Notice of Construction Award to Notice to Proceed and four additional weeks to prepare, review, and accept the submittals for piping, valves, and appurtenances. Once the submittals are accepted, it may require eight to ten 10 additional weeks to have the materials delivered to the site. This is not currently accounted for in the schedule included in the RFP.
3. Based on our experience in providing engineering support in south Orange County, we have noted that most pipeline contractors are able to lay approximately 200 feet of small diameter pipe in an eight-hour work day. This would take approximately 250 working days (or 50 weeks) to install all the pipe. We also estimate there to be approximately 15 service connections on the north side and approximately 20 service connections on the south side of the community. If four hours were required per connection, it would take approximately 3 to 4 additional weeks for one crew to complete those connections. The meter conversions could require another 3 weeks.

Therefore, using only one crew, it would take approximately 60 weeks to complete the construction of the project which is currently not accounted for in the schedule provided with the RFP. We are also aware that the Capital Engineering team has 19 contractors on its approved bidders list. Therefore, West Yost suggests that the District call several contractors on the list to determine if they could provide two or three crews for this project to increase the rate of installation that can be achieved per day. With the layout of the proposed pipelines, the contractor could successfully have two or three crews working simultaneously. In our experience, this can even spark friendly competitions between crews.

The schedule provided in the RFP does not appear to be adequate to construct the proposed improvements with only one crew. However, if construction began in April 2022 using two full crews, the construction could be completed in November 2022.

4. The Woodbridge community was master planned so that schools and community parks are located near each other so that the residents would have dual purpose fields. With this arrangement and as all parks in the area are irrigated with recycled water, IRWD's recycled water pipelines are located through and/or adjacent to virtually all Irvine Unified School District schools within Woodbridge. The schools that will be impacted by the construction include:

- Woodbridge High School
- South Lake Middle School
- Lakeside Middle School
- Meadow Park Elementary
- Springbrook Elementary
- Stone Creek Elementary
- Eastshore Elementary

The timing of construction should ideally be planned so that work adjacent to the schools can coincide with summer breaks to have the most flexibility related to limiting the impacts to pick-up and drop-off traffic. During construction of IRWD's pipelines for Wells 21 and 22 in Tustin, the contractor was required to install the 24-inch pipeline during non-school periods to avoid traffic and pedestrian issues. As such, the contractor installed the pipeline during summer break and on Saturdays in the fall. In order to avoid costly schedule constraints such as requiring Saturday work, we believe that it may be advantageous to construct the pipelines segments that are located in the vicinity of schools during their summer break. Although this may at first appear as if we are going

against IRWD's preference to construct the recycled water pipelines during the low irrigation water demand period, we may still be able to require that the contractor perform the actual system tie-ins during the low irrigation water demand period. The proposed schedule estimates that the tie-ins and meter conversions will occur in October and November 2022 when the daylight hours are shorter and the recycled water demands have significantly dropped from their summer peaks. This hybrid approach would reduce the impacts to schools while limiting service disruptions during high-use periods.



Summer Work: Drop Spot for Springbrook Elementary School

MINIMIZE SERVICE DISRUPTIONS

We understand that the Woodbridge service area has a significant amount of landscaping that typically receives irrigation water on alternate nights during the spring, summer, and fall seasons. As such, the replacement pipelines will be designed to minimize the number and duration of shutdowns. To achieve this goal, the proposed pipelines will be located a safe distance from the existing ACP recycled water pipelines so that the construction does not damage the existing pipelines while they remain in service. However, we will seek to locate the proposed pipelines near enough to the existing pipelines to minimize traffic impacts and pavement replacement.

The Project will consist of two major systems: the north and south distribution systems. For the north system, the most significant tie-ins are located in the intersection of West Yale Loop and Stone Creek South and in the intersection of East Yale Loop and Eastshore. For the south system, the most significant tie-ins are located in the intersection of Alton Parkway and West Yale Loop, the intersection of Alton Parkway and East Yale Loop, and in the intersection of East Yale Loop and Greenmoor. Another important supply to the south system is the 8-inch CML&C steel pipe connection on both sides of the Creek Road bridge over San Diego Creek.



East Yale Loop Pipeline Alignment

All other connections of the proposed pipelines to the existing non-ACP will then be made in an orderly manner. As the pipelines are energized, the recycled water meters will be converted from the old ACP to the proposed pipelines.



Irrigation Water Meters

As was done for IRWD’s Lake Forest 16-inch Zone C Recycled Water Pipeline in Vista Terrace and Zone B to C Pump Station Piping Improvements project in 2020, each tie-in detail will be carefully shown in the Construction Plans and described in the Project Manual within the schedule of bid items, Specification Section 00200 The Work, and Section 01840 Basis of Measurement for Payment. The Contract Documents will require all shutdowns to be closely coordinated with IRWD.

QUALITY CONTROL/QUALITY ASSURANCE

Quality is extremely important to West Yost. We were founded on, and have built a reputation for, providing high quality work products and client service. Our Quality Assurance/Quality Control (QA/QC) Policy is an integral component of company-wide policies and is included in our employee manual for each person in the company to read, understand, and acknowledge.

We believe that QA is process oriented with a focus on error prevention. West Yost’s QA/QC program consists of two key principles: 1) make sure the work is done correctly the first time and 2) clearly define and communicate goals and expectations with our clients and team members.

The goal of our QA/QC policy is to ensure that project deliverables meet the firm’s expected quality standards. Our QA/QC policy approach is focused on having senior staff with subject matter experience/expertise review all project deliverables prior to submission to the client. The following is a general list of company-wide QA/QC review requirements:

- Documents will not leave the office without review by another person capable of conducting a competent review of the information.
- Figures will not be released without a review to check for conformance with the figure standards.
- Spreadsheets will be reviewed, and internal formulas checked to confirm their functionality.
- Calculations will be reviewed to ensure they are correct.
- Design drawings will be checked for conformance with West Yost/IRWD standards and scope of work, and for effectively presenting the design information necessary to complete the work.
- Methodologies and preliminary results will be checked for compliance with project objectives.

Documents, such as Specifications, will be prepared in compliance with the Word Processing (WP) Manual. No project deliverable defined under this bullet will go out the door without going through WP compliance review. The QC Reviewer will initial as “REVIEWED BY” on the covers of TMs and memos. Reports have a signature line for QA/QC.

Scope of Work

The scope of work involves providing engineering design services necessary to construct 50,000 feet of recycled water pipelines with diameters ranging from 4 inches to 10 inches. The pipelines will consist of either PVC piping or DIP. Design services will include project management, a topographic survey, a geotechnical investigation, utility coordination and mapping, a potholing investigation, design document preparation, and agency permitting and coordination. Design documents will include plans, sections, details, and traffic control plans necessary for the construction of the improvements. West Yost will also complete construction specifications and an engineer's opinion of probable construction cost. The Project will generally consist of the following tasks.

Task 1. Project Management

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

A. PREPARE PROJECT STATUS REPORTS

West Yost will prepare Bi-Weekly and Monthly Project Status Reports. Bi-Weekly Status Reports will be submitted by email or by phone call by every other Tuesday. We will also prepare Monthly Status Reports that will be submitted with the monthly billing invoices.

1) Bi-Weekly Status Reports or Phone Calls

Our Bi-Weekly Status Reports will be brief, usually two to five paragraphs, or a couple minute phone conversation. Each report will summarize progress for the past two weeks, anticipated work to be accomplished the coming two weeks, and, most importantly, any decisions that need to be made or items required to stay on schedule.

2) Monthly Status Reports

Each monthly status report will be submitted with the billing invoice. It will contain more information than the Bi-Weekly Status Reports, including the percent complete for each task and the progress as compared to the established budget and schedule. The Project schedule will be updated and included with the Monthly Status Reports when modifications are required.

B. PROJECT MEETINGS

West Yost will prepare and submit meeting agendas for your review and concurrence at least three working days prior to each meeting. Based on the anticipated meeting agenda, we will propose attendees that we believe will add significant value to the discussions.

We will prepare draft and final meeting notes for all meetings and submit them to you for review within five working days of the meeting by email with a PDF attachment. The meeting notes will emphasize decisions made and action items.

Based on the social distancing requirements due to COVID-19 and the extent of the comments, these meetings could be in person, over the phone, or by using Microsoft Teams.

1) Design Kick-off Meeting

We believe that the kick-off meeting is an extremely important first step in delivering a successful project. One of our goals will be to understand your preferred communication methods (i.e. office calls versus cell phone calls versus emails/texts, etc.). We will also discuss lines of communications for the Project team.

The kick-off meeting will also be a time for us to present our approach, the Scope of Services, and the schedule to the entire team. We will discuss our approach to obtaining an encroachment permit with the City of Irvine and communications with other affected parties.

At this first meeting, the District will supply any District record drawings that were not provided with the RFP and discuss the design parameters with our team.

2) Proposed Alignments Preview Meeting (25%)

This meeting will be held to preview the proposed pipeline alignments. The 25% complete construction plans will show the proposed horizontal alignment for each street, all existing road improvements, and the existing recycled water pipelines, recycled water meters, isolation valves, and air and vacuum relief valves. The preliminary plans will also show all existing utilities.

At this alignment study meeting, we would like to discuss our preliminary concepts for traffic control measures during construction. The design team will also discuss the existing geotechnical data and the benefits of performing the optional geotechnical borings. We would also like to discuss the proposed pothole locations.

3) 70% Design Preview Meeting

This meeting will be used to preview the drawings and specifications at the 70% design completion stage. The plans will show all existing site improvements, the proposed pipeline horizontal and vertical alignments, and all existing utility crossings.

If the optional geotechnical investigation was authorized, we would discuss the preliminary results of those field investigations.

4) 100% Design Preview Meeting

This meeting will be held to review the drawings and specifications at the 100% design completion stage. Prior to this meeting, we will prepare a matrix with our responses to all the District's comments. We will either reference the plan or Project Manual revision that addresses the comment or thoroughly describe our reasoning for not revising the design. If the comment has further design ramifications, we will also address those issues.

In addition to our discussion regarding the responses to the 70% review comments, we will also walk the District through the 100% Construction Plans and Project Manual. In addition to the minimum requirements of previous plan submittals, the plans will also include all connection, meter and appurtenance details to complete the design for the Project.

C. QUALITY CONTROL AND QUALITY ASSURANCE

West Yost will identify potential design and construction risks associated with the Project. Our risk management process will then include risk analysis and mitigation. Robert will be responsible for risk monitoring and control as described in our Project Approach. This task will minimize the potential for the project being delivered over budget, behind schedule, or without District and/or affected parties' support.

Task 2. Final Design

The final design will result in the preparation of the Contract Documents. West Yost's proposed final design tasks will include the items discussed below:

A. PROJECT MANUAL

West Yost will prepare a Project Manual in standard IRWD format for the Contract Documents. IRWD's most-current front-end documents will be used, and West Yost will assess IRWD's documents to determine if any supplemental special provisions should be added to comply with IRWD's General Provisions and front-end requirements. The Project Manual will describe the work, the allowable shutdown durations and sequencing associated with any connections and tie-ins to existing IRWD facilities. The Project Manual will also include the IRWD General Technical Specifications, modifications as required, and any project specific technical specifications. West Yost will prepare the Project Manual in standard IRWD format. As was done for our recent Lake Forest Zone C Recycled Water Pipeline and Baker Pipeline Relocation projects, the Project Manual template will be provided in Microsoft Word format. West Yost will complete IRWD templates and will provide a PDF file of the bidding documents in 8-1/2-inch x 11-inch format.

B. CONSTRUCTION PLANS

West Yost will prepare detailed construction drawings in the latest version of AutoCAD and using NCS V4.0 layering standards, on 24-inch by 36-inch sheets using IRWD's standard border template. The Construction Plans will be based on the NAVD 88 datum and California State Plane Coordinates based on NAD 83. The improvement plans will include a site plan, sheet index/location map/legend, general notes, index map, plans and profiles of the pipeline improvements, new service connections to replace all existing services, abandonment of existing recycled water pipes, notes and details, general construction sequencing, traffic control plans, and all details necessary for the construction of the improvements.

West Yost has thoroughly reviewed the as-built drawings provided with the RFP. Based on the appearance and the design dates, most of these drawings were prepared before AutoCAD became the industry standard for plan preparation. Additionally, some of these pipelines were constructed before the Village of Woodbridge was built and reflect existing conditions at the time of construction that does not reflect the current street configurations as they exist today.

It is our understanding that IRWD has used as-builts similar to these as a base for somewhat recent pipeline construction projects. However, we believe that if we use a similar approach with the as-builts that we have reviewed, the resultant drawings would look messy, be difficult to read, and potentially trigger construction change orders or errors in construction. With our proposed approach, the aerial survey files would provide a sufficient base on which to create the necessary traffic control plans.

West Yost will subcontract with Borchard Surveying and Mapping, Inc. to prepare a topographic survey that will survey as a clean, accurate base for developing a detailed design, construction sequencing, shutdown, and dewatering strategy to minimize service interruptions. The index map will include sheet legend, final alignment, valve locations, surrounding streets, and significant project site locations.

West Yost will determine the replacement pipeline material (PVC or DIP where needed) and alignment based on the utility research, potholing, and geotechnical engineering evaluation. The existing ACP will be abandoned pursuant to IRWD standard specifications, which involves filling the existing pipe with concrete slurry.

West Yost will submit and process the plans for approval by the City of Irvine. Construction notes will be used (callouts on the plans are not allowed) on all construction drawings. Existing IRWD utilities will be identified on the plan view by as-built plan set number with the pipeline material. The draft and final versions of the Construction Plans will be submitted as an electronic PDF file. The following sheet list is anticipated for the project.

| Drawing List | |
|--------------------------------|---|
| SHEET NO. | TITLE |
| 1 | Title Sheet |
| 2 | Location Map, Vicinity Map, Drawing Index and Construction Notes |
| 3 | General Notes, Symbols, abbreviations, Recycled Water Notes, and Agency Index |
| 4 | Map with Sheet Index |
| 5 | Horizontal Control Sheet – North Pipelines |
| 6 | Horizontal Control Sheet – South Pipelines |
| 7 - 41 North Pipelines | |
| 7 – 16 | 10-inch/8-inch W Yale Loop/E Yale Loop (8,900 LF) |
| 16 - 22 | 6-inch Stone Creek S/Stone Creek N (5,200 LF) |
| 23 - 25 | 6-inch Eastshore (2,000 LF) |
| 26 - 28 | 6-inch Woodspring (2,000 LF) |
| 29 | 4-inch Stone Creek South (400 LF) |
| 30 | 6-inch Warner Avenue (700 LF) |
| 31 | 4-inch Burwood Street (400 LF) |
| 32 | 8-inch Woodhollow (1,000 LF) |
| 33 | 4-inch Lemongrass (500 LF) |
| 34 | 4-inch Shorebird (400 LF) |
| 35 | 8-inch Yale (200 LF) |
| 36 | 6-inch/4-inch Wildwood (450 LF) |
| 37 | 6-inch Ashwood (300 LF) |
| 38 | 6-inch Alderwood (450 LF) |
| 39 | 6-inch/4-inch Fallbrook (1050 LF) |
| 40 - 41 | 4-inch Briarwood/Brookmont (1,000 LF) |
| 42 - 70 South Pipelines | |
| 42 - 54 | 8-inch W Yale Loop/E Yale Loop (11,650 LF) |
| 55 - 61 | 8-inch Alton Parkway (6,400 LF) |
| 62 - 66 | 6-inch Springbrook (4,300 LF) |
| 67 - 68 | 8-inch Creek Road (1,400 LF) |
| 69 | 6-inch Main Street (800 LF) |
| 70 | 10-inch Greenmoor (700 LF) |
| 71 - 75 | Pipeline Connection Details and Applicable Construction Notes |
| 76 - 78 | Pipeline Service Conversion Details and Applicable Construction Notes |
| 79 - 80 | Civil Details – Pavement, Median, Curb & Gutter and Sidewalk Repair Details |
| 81 - 84 | Pipeline Abandonment Details |
| 85+ | Traffic Control Plan and Details |

Based on our team’s discussion with Stan Ng, City of Irvine Traffic Engineer, the traffic control plans will include both traffic control design for automobiles and bike lane closures and detours.

Traffic Control Design

STREET LOCATION

- Alton Pkwy. @ W. Yale Loop
- Alton Pkwy. W. Yale Loop - Lake Rd.
- Alton Pkwy. @ Lake Rd.
- Alton Pkwy. Lake Rd. - Creek Rd.
- Alton Pkwy. @ Creek Rd.
- Alton Pkwy. Creek Rd. - E. Yale Loop
- Alton Pkwy. @ E. Yale Loop
- W. Yale Loop Alton Pkwy. - Main St.
- W. Yale Loop @ Blue Lake N.
- W. Yale Loop @ Main St.
- W. Yale Loop Main St. - Springbrook S.
- W. Yale Loop @ Blue Lake S
- W. Yale Loop @ Misty Run
- W. Yale Loop @ Thunder Run
- W. Yale Loop @ Yale Ave.
- W. Yale Loop @ Springbrook S.
- E. Yale Loop Springbrook S. - Alton Pkwy.
- E. Yale Loop @ Greenmoor
- E. Yale Loop @ Fallingstar
- E. Yale Loop @ Fallcrest
- Main St. W. Yale Loop - Culver Dr.
- Main St. @ Culver Dr.
- Springbrook S. W. Yale Loop - Springbrook N.
- Springbrook S. W/o W. Yale Loop (raised median)
- Springbrook N. Springbrook S. - E. Yale Loop
- Springbrook N. w/o E. Yale Loop
- Creek Rd. Alton Pkwy. - San Diego Creek
- Creek Rd. San Diego Creed - Barranca Pkwy.
- Creek Rd. @ Barranca Pkwy.
- W. Yale Loop Stone Creek S. - Stone Creek N.
- W. Yale Loop @ Stone Creek S.
- W. Yale Loop @ Warner Ave.
- W. Yale Loop @ Stone Creek N.
- W. Yale Loop Stone Creek N. - Yale Ave.
- W. Yale Loop @ Lemongrass
- W. Yale Loop @ Yale Ave.
- E. Yale Loop Yale Ave. - Alderwood
- E. Yale Loop @ Alderwood

- E. Yale Loop Alderwood - East Shore
- E. Yale Loop @ East Shore
- Warner Ave. W. Yale Loop - Culver Dr.
- Warner Ave. @ Culver Dr.
- Stone Creek S. W. Yale Loop - Stone Creek N.
- Stone Creek S. e/o W. Yale Loop (raised median)
- Stone Creek S. w/o Wetstone (raised median)
- Stone Creek N. Stone Creek S. - W Yale Loop
- Stone Creek N. @ elbow (raised median)
- Stone Creek N. @ Creekwood (raised median)
- Stone Creek N. n/o Park Vista (raised median)
- Stone Creek N. s/o W Yale Loop (raised median)
- Woodhollow W. Yale Loop
- Irvine Center Dr. @ Woodhollow
- Lemongrass W. Yale Loop - Sandstone
- Shorebird W. Yale Loop - Pinewood
- Yale Ave. n/o W. Yale Loop
- Woodspring n/o E. Yale Loop
- Woodspring s/o E. Yale Loop - Ashwood (raised median)
- Woodspring Ashwood - Eastshore
- Eastshore Woodspring - E. Yale Loop (school)
- Eastshore w/o E. Yale Loop (raised median)
- Alderwood @ E. Yale Loop
- Fallbrook e/o Alderwood
- Briarwood e/o E. Yale Loop
- Jeffrey Rd. @ Briarwood (extension)

Bike Lane Closure/Detour

STREET LOCATION

- W. Yale Loop Alton Pkwy. - Alton Pkwy.
- E. Yale Loop Alton Pkwy. - Alton Pkwy.
- Main St. Culver Dr. - W. Yale Loop
- Alton Pkwy. W. Yale Loop - E. Yale Loop
- Creek Rd. Alton Pkwy. - Barranca Pkwy.
- W. Yale Loop Stonecreek S. - Yale Ave.
- E. Yale Loop Yale Ave. - Eastshore

West Yost will perform the following in preparing the Construction Plans:

1. Review of Background Material

West Yost will review the background material for the pipelines including but not limited to the following:

- As-built record drawings
- Geotechnical Reports

2. Utility Review

West Yost will request utility maps and any information regarding planned utility projects from utility providers participating in Underground Service Alert (USA) of Southern California and will generate a utility tracking log in Microsoft Excel. We will email or use regular mail as required by the agency to send our requests. Our proposed budget includes reimbursement for our initial payments for all record request fees.

Providers understood to have facilities within the project area include:

- City of Irvine
- Southern California Edison
- Southern California Gas Company
- AT&T
- MCI (Verizon)
- Cox Communications
- Metropolitan Water District of Southern California
- Laguna Beach County Water District
- South Coast Water District

We will prepare utility request letters to each, describing our Project and the anticipated work area. We will also provide them with the estimated construction period. In the letters, we will request record drawings for their facilities and information on any of their projects planned for our project area in the next few years. We will email or use regular mail as required by the agency to send our requests. Our proposed budget includes reimbursement for our initial payments for all record request fees.

Our utility tracking log will be updated as information is provided to us. For agencies that do not respond to our request, we will follow up with additional requests. The utilities tracking log will be provided to IRWD if requested. Special emphasis will be placed on improvements that have recently been installed and those that are planned for the next two years. We have noted during past projects that some recent improvements have not been entered into the existing facilities GIS files or database when we made

our data request. Therefore, our inquiry was returned with incorrect information in that facilities were near our proposed work. We will perform a field walk to verify that all existing facilities that can be visually confirmed are shown on our drawings.

3. Pothole Investigation

West Yost will coordinate with our subcontractor, Underground Solutions, to pothole existing utilities that may conflict with or affect the proposed recycled waterline facility design and construction, e.g. proximity of crossings with existing water, sewer, storm drain, and dry utilities, with the proposed alignments of the replacement pipelines, or to determine the locations and depths of existing mains at proposed points of connection. Prior to performing the field work, West Yost will propose the recycled waterline horizontal alignments and mark the location of the proposed potholes on the base construction drawings for District approval during the 25% design workshop. Our surveyor, Borchard Surveying, will survey the locations for the potholes. Underground Solutions will call Dig Alert and coordinate with the utility companies to have the utilities marked-out prior to potholing. Underground Solutions will obtain an encroachment permit from the City of Irvine for the potholing. Underground Solutions will prepare all traffic control plans required in conjunction with encroachment permit for potholing. In accordance with the RFP, we have budgeted the execution of fifty (50) potholes. If additional potholes are needed, we understand that they will be invoiced at the proposed unit price.

C. GEOTECHNICAL INVESTIGATION

West Yost and our geotechnical subconsultant, Converse Consultants, will review the historical geotechnical reports for the site. These reports include:

- Blue Lake Soils, 2007
- Trench Backfill Compaction E. Yale Loop, 1978
- Report of Soil Investigation Proposed Water Pipelines Southeast Quadrant Woodbridge, 1981

Based on the review, Converse Consultants will determine if we can use the previous soils analysis for this design or determine if an additional soils investigation is required.

B TEAM



Primary Consultant

West Yost Associates (West Yost) is a consulting engineering firm that was founded in 1990. Our focus is exclusively water, recycled water, wastewater, groundwater, and stormwater. We provide planning, design, construction

management, and program management services in these areas.

West Yost is headquartered in Davis, California, and has more than 180 staff members in 11 offices. Our staff includes certified or registered professionals in chemical, civil, control systems, electrical, environmental, and mechanical engineering; water and wastewater treatment and regulatory compliance; geology, engineering geology, and hydrogeology; architecture; GIS; cybersecurity, and risk management; asset management and condition assessment; project management; and construction management and inspection services.

Our project team has successfully performed engineering services for IRWD and other cities, districts, and agencies throughout California, Arizona, and Oregon, often for repeat clients. Our repeat, long term relationships with these and many other clients is evidence of our high level of service and quality work products. West Yost has worked for many of our clients for more than 25 years.

West Yost’s Experience with Irvine Ranch Water District

West Yost has provided or is currently providing engineering planning and design services on the following projects with IRWD:

- InfoSWMM Conversion Project
- Lake Forest Zone C Pipeline
- Potable Water Hydraulic Model Update
- Recycled Water Inspection and Testing FY 20-21
- Recycled Water Mapping of Use Sites
- Cañada Lift Station Evaluation
- Irvine Lake Pipeline Zone B Conversion
- Recycled Water Inspection and Testing 2019-20
- Replacement Planning Model - Phase 2
- Recycled Water Inspection and Testing

Team Overview

West Yost team members have long-standing working relationships with of our consulting team members. **Table B-1** summarizes our team.

Table B-1. Project Team Services and Location of Work

| FIRM | SERVICES | LOCATION OF WORK |
|------------------------------------|---------------------------------------|---|
| PRIMARY CONSULTANT | | |
| West Yost Associates | Project Management, QA/QC, and Design | The project will be managed and designed from West Yost’s Lake Forest, CA, office and will be supported by offices in Davis and Sacramento, CA. |
| SUBCONSULTANTS | | |
| Borchard Surveying | Survey | San Clemente, CA |
| Converse Consultants | Geotechnical Engineering | Costa Mesa, CA |
| Traffic Control Engineering | Traffic Control | Brea, CA |
| Underground Solutions | Potholing | Escondido, CA |

Borchard Surveying

Survey

Borchard Surveying and Mapping, located in San Clemente, is a professional land surveying and mapping company in Orange County and surrounding areas. They employ inventive techniques using state-of-the-art instrumentation to provide their customers with the high-quality work products. They maintain a full-service, professional survey crew equipped with total stations, electronic data collectors and global positioning system instrumentation. Borchard is currently providing surveying services as part of West Yost's team for the Irvine Ranch Water District Lake Forest Zone C Pipeline Project and has been providing surveying and mapping services to Irvine Ranch Water District in an ongoing on-call basis.

Converse Consultants

Geotechnical Engineering

In 1946, Professor Frederick J. Converse established Converse Consultants (Converse) in Pasadena, California to provide the construction industry with geotechnical engineering and geological services. Converse is an employee-owned corporation, with nine offices and more than 150 employees throughout the United States—California (Monrovia, Redlands, Costa Mesa, Palm Desert, and Palmdale), Nevada (Las Vegas, Reno, and Elko), and Pennsylvania. Their professional and technical staff includes in-house geotechnical engineers, engineering geologists, environmental scientists, deputy inspectors, laboratory and field technicians, drafting/CAD specialists, and other specialized support personnel. Converse has provided on-call geotechnical engineering services to Irvine Ranch Water District.

Traffic Control Engineering

Traffic Control

Traffic Control Engineering was founded in 1989 and specializes in traffic and transportation engineering. The firm is a certified MBE with Caltrans and City of Los Angeles. They have prepared traffic control plans for Caltrans and various cities, counties, water districts, and private contractors throughout Southern California. Their experience in the traffic engineering profession and familiarity with governmental agencies allow them to coordinate contractors and governmental activities effectively. Traffic Control Engineering has on-going contracts with City of Newport Beach, Long Beach Water Department, Los Angeles County Sanitation District, and Irvine Ranch Water District for providing as-needed traffic control design.

Underground Solutions

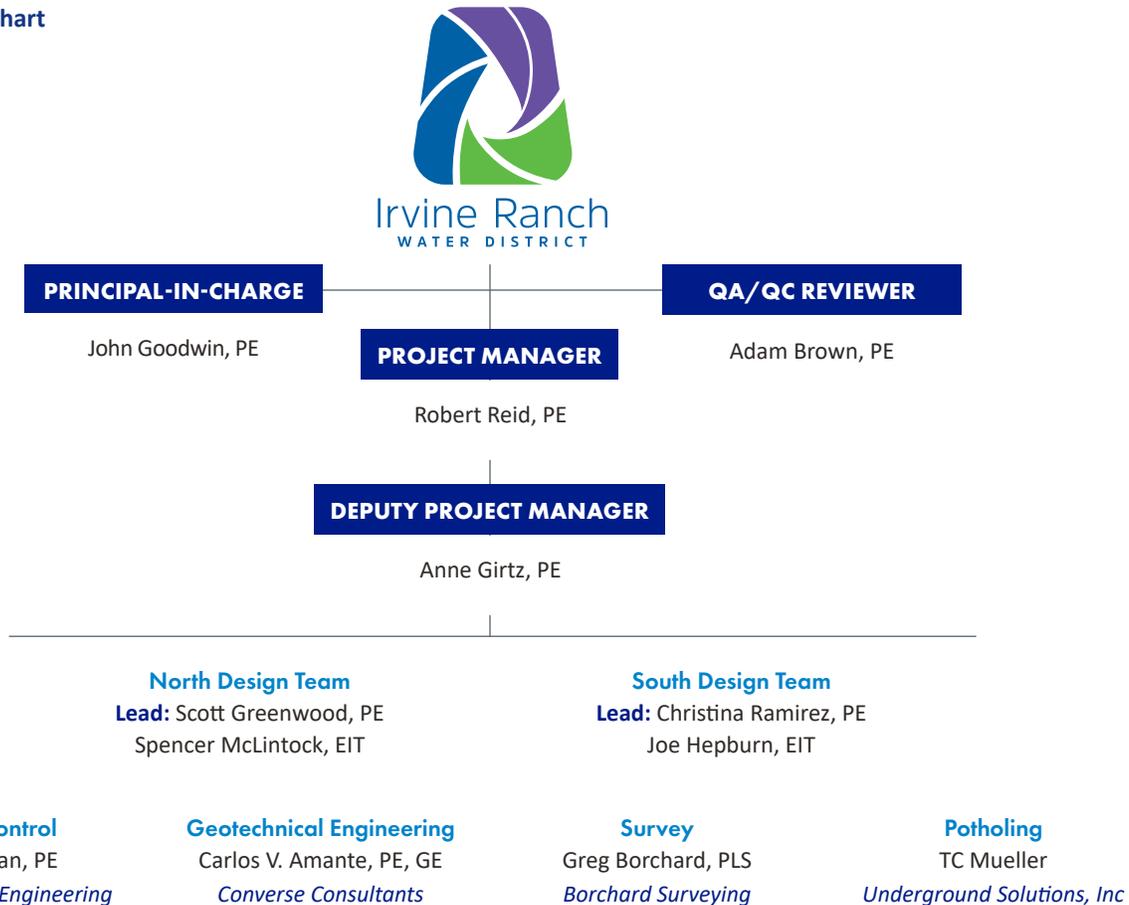
Potholing

Underground Solutions, Inc. (USI) has been in the locating and vacuum excavation utility potholing service business since 2003. USI provides safe, fast and accurate underground utility locating to water and sewer districts, municipal customer, and utility contractors. Their high-velocity, air-driven excavation delivers the power to cut precise holes into the earth without damaging utilities. Their "dry" system provides an economical and environmentally-friendly method of excavation.

Team Organization

West Yost’s team of recycled water pipeline design experts for IRWD’s project are shown in our organizational chart below. Our proposed project manager, **Robert Reid**, has more than 30 years of experience in infrastructure planning and design projects. All our team members will be fully available to support the needs of this project, and key personnel assigned to the project will not be reassigned without prior IRWD written approval. We have included brief bios for our key team members in the following section and resumes in [Appendix 1](#).

Organizational Chart



Team Member Project Contribution

Table B-2 presents the percentage of time each member will contribute to IRWD’s project.

| TEAM MEMBER | % OF BUDGET | % TIME AVAILABLE | % REQUIRED TIME |
|-------------------|-------------|------------------|-----------------|
| John Goodwin | 1 | 5 | 2 |
| Robert Reid | 7 | 30 | 16 |
| Adam Brown | 3 | 15 | 6 |
| Anne Girtz | 6 | 35 | 14 |
| Scott Greenwood | 12 | 50 | 29 |
| Spencer McLintock | 30 | 90 | 69 |
| Christina Ramirez | 12 | 50 | 27 |
| Joe Hepburn | 29 | 90 | 67 |
| TOTAL | 100 | | |



Robert Reid, PE **PROJECT MANAGER**

West Yost

Robert Reid will be IRWD’s primary point of contact. He will lead our project team to complete the work on schedule and

within the authorized budget. He has 31 years of experience and has managed all phases of water resource projects, including conceptual planning, feasibility studies, facility design, and construction management. He has evaluated distribution systems and developed facility plans to meet projected future needs that involve major transmission infrastructure projects. His project experience includes water reservoirs, water booster pump stations, groundwater wells, pressure-reducing stations, water flow monitoring stations, flow control stations, and pipelines. Robert has designed or managed 200 miles of pipeline projects in southern California, which includes 25 pipeline design projects for the Irvine Ranch Water District over the past 30 years.

Robert’s Related Experience

- **Randall Street Domestic Water Improvements, Irvine Ranch Water District, City of Orange, CA:** Principal-in-Charge
- **Trabuco and Jeffrey Roads and Bryan Avenue Capital Improvements, Irvine Ranch Water District, Irvine, CA:** Project Manager
- **Wells 21 and 22 Pipelines, Irvine Ranch Water District, Tustin, CA:** Project Manager
- **Sand Canyon Avenue Capital Pipelines, City of Irvine, CA:** Project Manager
- **Lincoln Avenue 16-inch Water Main (Beach Blvd. to approx. 1,250 feet east of Dale Ave.), City of Anaheim, CA:** Project Manager
- **54-inch Baker Pipeline Realignment in Reach 1U through Santiago Creek, Santiago Aqueduct Commission, Orange, CA:** Project Manager
- **Montebello Hills Recycled Water Pump Station, Pipeline, and PRV Design, Toll Brothers and Central Basin Municipal Water District, Montebello, CA:** QA/QC
- **Lake Forest 16-inch Zone C Recycled Water Pipeline in Vista Terrace and Zone B to C Pump Station Piping Improvements, Irvine Ranch Water District, Lake Forest, CA:** Project Manager



Anne Girtz, PE **DEPUTY PROJECT MANAGER**

West Yost

Anne Girtz will be the deputy project manager and be a secondary point of contact for IRWD. Anne has 14 years of

experience in asset management, planning, design, contract administration, and construction inspection for municipal infrastructure projects. Anne has prepared water and sewer pipeline designs for projects ranging from a conceptual to detailed design level and understands the complexities of replacement projects. She is also familiar with IRWD infrastructure and standards through her work on previous IRWD projects. Anne is proficient in InfoMaster/InfoAsset, Autodesk Civil3D and AutoCAD, XPSWMM, EPA SWMM, and EPANET hydraulic modeling software.

Anne’s Related Experience

- **Lake Forest 16-inch Zone C Recycled Water Pipeline in Vista Terrace and Zone B to C Pump Station Piping Improvements, Irvine Ranch Water District, Lake Forest, CA:** Project Engineer
- **Montebello Hills Domestic Water Tanks, Pump Stations, and Pipeline Design, Toll Brothers and San Gabriel Valley Water Company, Montebello, CA:** Project Engineer
- **Replacement Planning Model – Phase 2, Irvine Ranch Water District, CA:** Project Engineer
- **InfoSWMM Conversion and San Diego Creek Interceptor Capacity Project, Irvine Ranch Water District, CA:** Project Engineer
- **Baker Pipeline Realignment, Santiago Aqueduct Commission, Irvine, CA:** Project Engineer
- **Design Services for Sanitary Sewer Lift Stations and Pipeline Rehabilitation at Oakland International Airport, Port of Oakland, CA:** Deputy Project Manager and Project Engineer for pipeline design and condition assessment



John Goodwin, PE
PRINCIPAL-IN-CHARGE

West Yost

John Goodwin will oversee the project and dedicate West Yost resources to keep the project on schedule and on budget. John

has 36 years of experience leading project teams, providing QA/QC, and planning and designing water and wastewater infrastructure projects. His project experience includes pipelines, pump stations, and storage facilities. He is a leader in trenchless pipeline construction and rehabilitation.

John’s Related Experience

- **Recycled Water Pipelines, City of Tracy, CA:** Project Manager and QA/QC Reviewer
- **Recycled Water Storage and Distribution Project, City of Hayward, CA:** Project Engineer
- **Driscoll Main Replacement, Alameda County Water District, Fremont, CA :** Project Manager



Adam Brown, PE
QA/QC REVIEWER

West Yost

Adam Brown is West Yost’s Pipeline Practice Area Lead and will provide QA/QC review for the project. He has 14 years

of pipeline design experience for both public agencies and private developers. He has prepared plans, specifications, and cost estimates for a variety of projects throughout Northern California including trenchless pipeline construction and rehabilitation methods. Adam understands the importance of construction phasing, system connections, material considerations, RWQCB requirements, and limiting service interruptions related to water line improvement projects.

Adam’s Related Experience

- **Driscoll Main Replacement, Alameda County Water District, Fremont, CA :** Project Engineer
- **Sweeney Ridge Water Tank and Pipeline, City of San Bruno, CA:** Project Engineer
- **Wykoff Drive Water Line Replacement, City of Vacaville, CA:** Project Manager and Lead Designer



Scott Greenwood, PE
NORTH DESIGN TEAM LEAD

West Yost

Scott Greenwood has five years of experience in provided planning, GIS, and design services for infrastructure projects

involving water, recycled water, sewer, and stormwater systems, including more than a dozen pipeline projects. He has expertise in AutoCAD Civil 3D and specializes in the development of construction plans, technical specifications, and construction estimates. Scott has previously worked with IRWD standards before having worked on the Baker Pipeline Realignment Project.

Scott’s Related Experience

- **Baker Pipeline Realignment, Santiago Aqueduct Commission, Irvine, CA:** Project Engineer
- **Recycled Water Pipelines, City of Tracy, CA:** Project Engineer
- **Recycled Water Storage and Distribution Project, City of Hayward, CA:** Project Engineer
- **Driscoll Main Replacement, Alameda County Water District, Fremont, CA :** Project Engineer



Christina Ramirez, PE
SOUTH DESIGN TEAM LEAD

West Yost

Christina Ramirez has nine years of experience specializing in the design and construction of pipeline projects.

She has designed Caltrans right-of-way crossings using trenchless design and designed pipelines requiring multiple private easements. Her experience includes the design of water pipelines, sewer mains, force mains, storm drains, utilities, site design, grading and drainage, roadways, lift stations, and proper phasing. Christina has coordinated and completed permit applications and grant applications as well as conducted plan review for development and pipeline projects. She is proficient with AutoCAD Civil 3D.

Christina’s Related Experience

- **Driscoll Main Renewal Project, Alameda County Water District, Fremont, CA:** Project Engineer
- **Water System Planning and Improvements Project, Markleeville Water Company, Markleeville, CA:** Project Engineer
- **Don Julio/Watt Sewer Relief Project (ARD 4 and 5), Sacramento Area Sewer District, Sacramento, CA:** Project Engineer



Spencer McIntock, EIT **NORTH DESIGN TEAM**

West Yost

Spencer McIntock will provide pipeline design support. He specializes in water distribution networks and water treatment.

Spencer has experience with ArcGIS, AutoCAD, HEC-RAS, and HEC-HMS on a variety of water planning projects.

Spencer's Related Experience

- **Driscoll Main Replacement, Alameda County Water District, Fremont, CA:** Staff Engineer
- **Lammers Road Transmission Main, City of Tracy, CA:** Staff Engineer
- **Various Preliminary Design Reports, City of Vacaville, CA:** Staff Engineer
- **Water System Planning and Improvements Project, Markleeville Water Company, Markleeville, CA:** Staff Engineer



Joe Hepburn, EIT **SOUTH DESIGN TEAM**

West Yost

Joe Hepburn has participated in the design and construction management of water infrastructure projects. He has experience

with AutoCAD, Civil 3D, ArcGIS, and Microsoft Excel.

Joe's Related Experience

- **Washington Park Reservoir Improvements Project, Portland Water Bureau, OR:** Engineering intern
- **2021 Water Main Design, San Jose Water Company, San Jose, CA:** Engineering Intern
- **1366 South De Anza Boulevard, San Jose Water Company, San Jose, CA:** Engineering Intern
- **Don Julio/Watt Avenue Sewer Relief Project (ARD 4 and 5), Sacramento Area Sewer District, Sacramento, CA:** Engineering Intern



David Kuan, PE **TRAFFIC CONTROL**

Traffic Control Engineering

David Kuan, principal of Traffic Control Engineering, has extensive traffic control engineering experience in both public and private sectors. David has prepared traffic control plans for Caltrans as well as various cities, counties, water districts, and private contractors throughout Southern California. David's traffic control plans have included street improvements, storm drains, sewer lines, water/reclaimed water pipelines, drilling excavations, raised median landscaping, bus bays, oil pipelines, soundwalls, freeway widening, utility pipelines, and fiber optic conduits. David also serves on the Work Area Traffic Control Handbook (WATCH) committee.

David's Related Experience

- **Lake Forest Zone C Pipeline Project, Irvine Ranch Water District, Lake Forest, CA:** Traffic Control
- **Wells 21 and 22 Pipelines, Irvine Ranch Water District, Tustin, CA:** Traffic Control
- **Bonita Canyon Recycled Water Zone D to B, Irvine Ranch Water District, Irvine, CA:** Traffic Control
- **Culver Drive Recycled Water Replacement, Irvine Ranch Water District, Irvine, CA:** Traffic Control
- **Emergency Waterline Repair, Bake Parkway at I-5 Truck Bypass, Irvine Ranch Water District/Caltrans, CA:** Survey
- **Water Service Repair, Santiago Canyon Road, Irvine Ranch Water District, Orange, CA:** Traffic Control
- **ILP North Conversion Project, Chapman Avenue/Jamboree Road, Irvine Ranch Water District, Orange, CA:** Traffic Control



Carlos V. Amante, PE, GE **GEOTECHNICAL ENGINEERING**

Converse Consultants

Carlos Amante has more than 26 years of geotechnical and earthquake engineering consulting experience developing innovative and cost-effective engineering solutions for private and public sector clients. Carlos has successfully managed numerous geotechnical and seismic design investigations and testing for hundreds of bridge and highway transportation projects in Southern California. Carlos is experienced in project management and technical delivery of projects involving complex ground investigation, seismic-resilient design of earthworks and foundations, slope engineering, liquefaction assessment, construction quality assurance and material testing, and constructability/value engineering study.

Carlos’s Related Experience

- **Lacy Neighborhood Water Main, Santa Ana, CA:** Geotechnical Project Engineer
- **French Park Water Main, Santa Ana, CA:** Geotechnical Project Engineer
- **Flower Street Sewer Pipeline, Santa Ana, CA:** Lead Geotechnical Engineer



Greg Borchard, PLS **SURVEY**

Borchard Surveying

Greg Borchard has more than 25 years of experience in the civil engineering mapping field. Some of Greg’s responsibilities include site investigations, project coordination and development, feasibility study and analysis, quantity and cost estimating, environmental assessment and impact evaluation, specification and construction documentation, construction observation, project close-out, and as-built certification. Greg has been the survey project manager for multiple IRWD projects over the past 14 years. His duties have included interacting with IRWD’s project engineers and providing calculations, field coordination, and problem solving and contractor collaboration.

Greg’s Related Experience

- **Lake Forest Zone C Pipeline Project, Irvine Ranch Water District, Lake Forest, CA:** Surveying and Mapping
- **MWRP Phase 2 Plant Upgrade, Irvine Ranch Water District, Irvine, CA:** Surveying and Mapping
- **Biosolids and Energy Recovery Project, Irvine Ranch Water District, Irvine, CA:** Surveying and Mapping
- **Zone 1 Reservoir Project, Irvine Ranch Water District, Irvine, CA:** Surveying and Mapping
- **Wells 21 & 22 Desalter Pipelines Project, Irvine Ranch Water District, Tustin, CA:** Surveying and Mapping



TC Mueller **POTHOLING**

Underground Solutions, Inc

Thomas (T.C.) Mueller has more than 30 years of hands-on general engineering contracting experience in the counties of San Diego, Orange, LA, Riverside, and San Bernardino with an emphasis on safety and production. TC is familiar with various types of utility installation, soil conditions, excavation equipment, traffic control, and safety practices. He provides valuable experience installing utilities and determining locations and depths of existing utilities when potholing and locating.

TC’s Related Experience

- **T033 Camino Capistrano, Orange County, CA:** Utility Potholing via Air Excavation Potholing
- **MNWD Pipeline I-5 & Oso Parkway Orange County, CA:** Utility Potholing via Air Excavation Potholing
- **FE 18-13 Redhill, Orange County, CA:** Utility Potholing via Air Excavation Potholing
- **Anaheim Rural Ridge Water Replacement, Orange County, CA:** Utility Potholing via Air Excavation Potholing

D SCHEDULE

West Yost has put together a team structure for your project that dedicates separate design teams for the the north and south loops. This will allow each team to focus on the unique challenges of those areas. Our project manager and deputy project manager will use proven communication and workload planning tools to share knowledge between the teams and lead the project to a successful completion according to the proposed schedule and with the quality that you expect from West Yost.

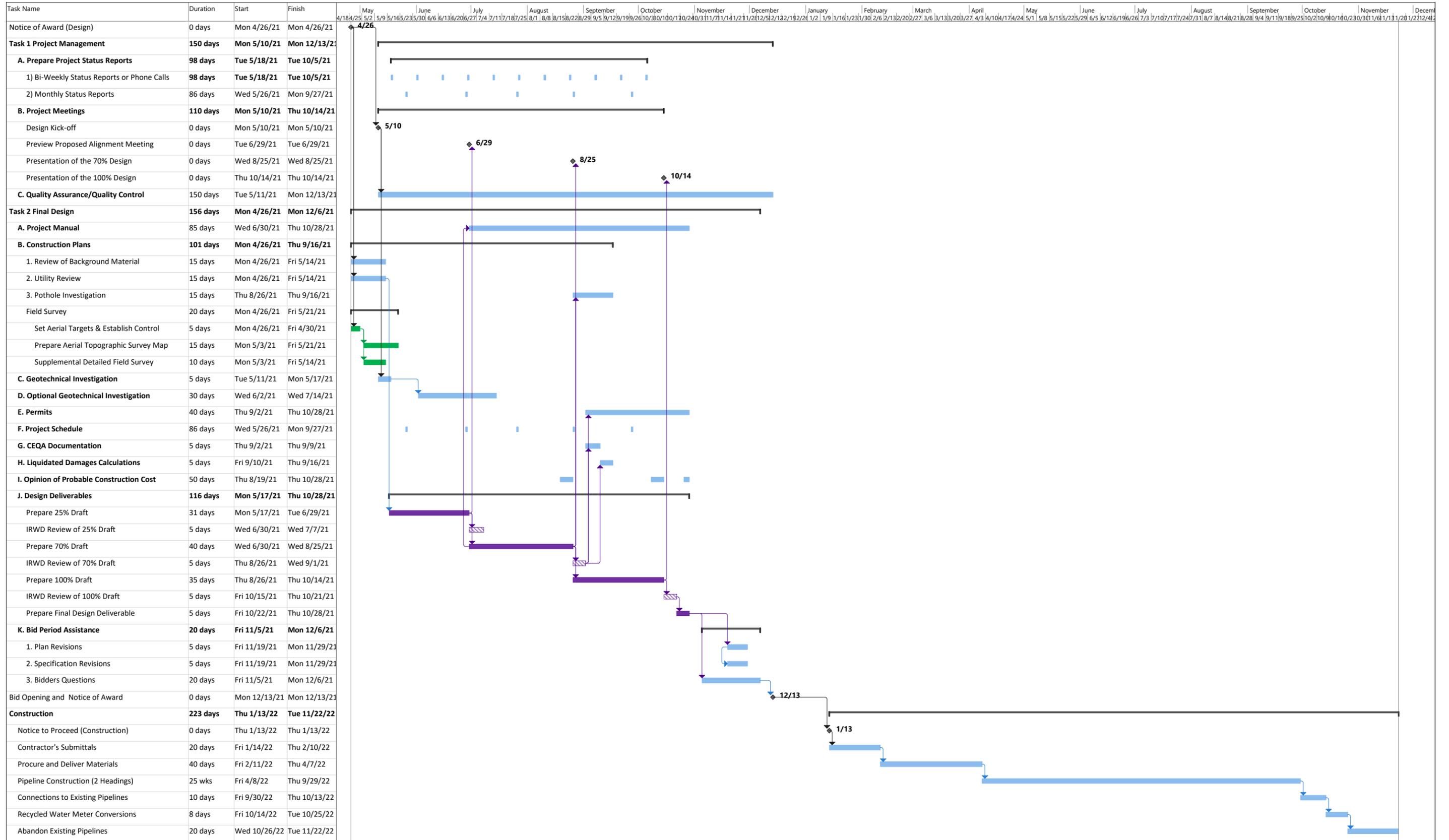
Project Communications

Project communications are critical to any design project's success. Biweekly communication between the IRWD project manager and West Yost project manager will be important to track the progress of the project, understand any information or decisions that could delay the progress, and share key project information among team members. Monthly status reports will help summarize these decisions and discussions, as well as the progress. In addition, communication and coordination among the entire design team will be important for project success; internal team communication will happen as needed so that the project will meet the milestones to completion.

Workload Planning

West Yost's project management software will provide Robert with real-time project workload planning information. As the project manager, he will be responsible for the project's status at monthly meetings with a West Yost principal. In these meetings, the project manager and principal will review and discuss your project's budget, schedule, and any project issues including staffing. The principal has the authority to assign additional resources to projects.

Proposed Schedule



WE SUPPORT OUR COMMUNITIES
WE ARE WATER FOCUSED
WE TAKE PRIDE IN WHAT WE DO
WE STRIVE TO BECOME OUR BEST
WE DO WHAT'S RIGHT
WE BELIEVE IN QUALITY
WE LISTEN
WE SOLVE CHALLENGING PROBLEMS
WE SEE THE BIGGER PICTURE
WE TAKE OWNERSHIP
WE COLLABORATE
WE HAVE FUN
WE ARE WEST YOST





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Lake Forest, CA 92630

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949.517.9090 fax
westyost.com

March 31, 2021

Sabrina Ryan

Associate Engineer
Irvine Ranch Water District
15600 Sand Canyon Avenue
Irvine, CA 92618

RE: Fee Proposal in Response to Request for Proposals - Engineering Design Services for the Woodbridge Recycled Water Pipeline Replacement

Dear Ms. Ryan:

West Yost has included our fee proposal for the Woodbridge Recycled Water Pipeline Replacement Project in the attached table. Our proposed fee reflects our approach and labor-hour estimate to complete your project. We recognize that our interpretation of the needs for this project may be different than IRWD's, and we are flexible to work with you to revise our scope and effort as appropriate. As noted in the RFP, compensation will be on a time and materials basis, subject to the not-to-exceed amount shown in the table.

We appreciate the opportunity to provide engineering design services to IRWD, and we look forward to starting work on this important project. Please contact either of us if you have any questions or need additional information.

Sincerely,

WEST YOST

Corie Moolenkamp, PE
Infrastructure Business Sector Manager
503.601.9520 cell
cmoolenkamp@westyost.com

Robert S. Reid, PE
Project Manager
949.324.2091 cell
rreid@westyost.com

E BUDGET

| Task No. | Task Description | John Goodwin, PE Principal-in-Charge | Adam Brown, PE QA/QC | Robert Reid, PE Project Manager | Anne Girtz, PE Project Engineer | Scott Greenwood, PE North Pipeline Lead | Spencer McIntock, EIT North Designer | Christina Ramirez, PE South Design Lead | Joe Hepburn, EIT South Designer | Administrative Assistant | Total West Yost Hours | West Yost Labor Fee | Traffic Control Engineering, Inc. | Converse Consultants Geotechnical | Underground Solutions Potholing | Borchard Surveying & Mapping, Inc. | Other Direct Costs | Total Fee |
|----------|---|---|-------------------------|------------------------------------|------------------------------------|--|---|--|------------------------------------|-----------------------------|-----------------------|----------------------|--------------------------------------|--------------------------------------|------------------------------------|---------------------------------------|--------------------|----------------------|
| | | \$ 307 | \$ 247 | \$ 279 | \$ 236 | \$ 202 | \$ 162 | \$ 236 | \$ 162 | \$ 135 | | | | | | | | |
| 1 | Project Management | 16 | | 60 | 40 | | | | | 12 | 128 | \$ 32,712.00 | | | | | | \$ 32,712.00 |
| 2 | Design | | | | | | | | | | | | | | | | | |
| | A. Project Manual | 2 | 8 | 8 | 24 | | | | | 8 | 50 | \$ 11,566.00 | | | | | | \$ 11,566.00 |
| | B. Construction Plans | 4 | 54 | 56 | 30 | 266 | 637 | 266 | 637 | | 1950 | \$ 360,166.00 | \$ 236,500.00 | | | \$ 70,092.00 | | \$ 666,758.00 |
| | 1. Review of Background Material | | | 2 | | 8 | | | | | 10 | \$ 2,174.00 | | | | | | \$ 2,174.00 |
| | 2. Utility Review | | | 2 | 4 | | 16 | | 16 | | 38 | \$ 6,686.00 | | | | | \$ 500.00 | \$ 7,186.00 |
| | 3. Pothole Investigation | | 2 | 8 | 4 | 4 | 4 | 4 | 4 | 2 | 32 | \$ 6,988.00 | | \$ 59,972.00 | \$ 2,596.00 | \$ 200.00 | | \$ 69,756.00 |
| | C. Geotechnical Investigation | | | 2 | 4 | | | | | | 6 | \$ 1,502.00 | \$ 5,445.00 | | | | | \$ 6,947.00 |
| | D. <i>Optional Geotechnical Investigation (See Below)</i> | | | | | | | | | | 0 | \$ - | | | | | | \$ - |
| | E. Permits | | | 8 | 4 | 4 | 8 | | | | 24 | \$ 5,280.00 | | | | | \$ 2,500.00 | \$ 7,780.00 |
| | F. Project Schedule | | | 4 | 4 | | | | | 8 | 16 | \$ 3,140.00 | | | | | | \$ 3,140.00 |
| | G. CEQA Documentation | | | 1 | 1 | 2 | 8 | | | | 12 | \$ 2,215.00 | | | | | | \$ 2,215.00 |
| | H. Liquidated Damages Calculations | | | 2 | 2 | | | | | | 4 | \$ 1,030.00 | | | | | | \$ 1,030.00 |
| | I. Opinion of Probable Costs | | | 4 | 12 | 8 | 20 | 8 | 20 | | 72 | \$ 13,932.00 | | | | | | \$ 13,932.00 |
| | J. Design Deliverables | | | 3 | 3 | | 6 | | 6 | 3 | 21 | \$ 3,894.00 | | | | | | \$ 3,894.00 |
| | K. Bid Period Assistance | | | | | | | | | | | | | | | | | |
| | 1. Plan Revisions | | | 1 | 1 | 2 | 4 | | | | 8 | \$ 1,567.00 | | | | | | \$ 1,567.00 |
| | 2. Specification Revisions | | | 1 | 6 | | | | | 1 | 8 | \$ 1,830.00 | | | | | | \$ 1,830.00 |
| | 3. Bidders Questions | | | 2 | 2 | | | | | | 4 | \$ 1,030.00 | | | | | | \$ 1,030.00 |
| | Grand Total | 22 | 64 | 164 | 141 | 294 | 703 | 278 | 683 | 34 | 2383 | \$ 455,712.00 | \$ 236,500.00 | \$ 5,445.00 | \$ 59,972.00 | \$ 72,688.00 | \$ 3,200.00 | \$ 833,517.00 |
| | D. Optional Geotechnical Investigation | | | | 2 | | | | | | 2 | \$ 472.00 | | \$ 14,960.00 | | | | \$ 15,432.00 |

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April 26, 2021

Prepared by: R. Bennett / K. Welch

Submitted by: F. Sanchez / P. Weghorst

Approved by: Paul A. Cook



ACTION CALENDAR

SALT MANAGEMENT MODEL PHASE 1 UPDATE BUDGET INCREASE

SUMMARY:

The Salt Management Model Phase 1 Update and Validation Project will update IRWD's existing Recycled Water Salt Management Model by incorporating additional historic data and new facilities, as well as analyzing and validating a selected alternative proposed in IRWD's Sewage Treatment Master Plan (STMP). In May 2020, consulting engineers at HDR initiated work on the Project. To date, HDR has completed the incorporation of the additional data and new facilities into the model. Additional budget to complete the model validation portion of the work is needed because the STMP alternative to be modeled is significantly more complex than envisioned in the consultant's original scope of work. Staff recommends the Board authorize a budget increase in the amount of \$65,000 for Project 11135, from \$187,500 to \$252,500, to complete the Salt Management Model Phase 1 Update and Validation Project.

BACKGROUND:

In 2013, HDR developed IRWD's Recycled Water Salt Management Model as part of the District's Salt Management Plan. Since the development of this model, IRWD has used it to help analyze and manage the District's salt loading, as well as to evaluate future projects that may impact IRWD's ability to provide good quality recycled water to its customers and to meet Regional Water Quality Control Board permit levels for total dissolved solids (TDS) in recycled water discharged into IRWD's storage reservoirs. As part of these uses, the model has been enhanced to simulate chloride and boron, to accept flow and quality data generated by a groundwater model, and to analyze complex alternatives like the proposed Huntington Beach Seawater Desalination Project. The historic data in the current version of model had not been updated since 2013 and does not include the ability to simulate new IRWD projects such as Baker Water Treatment Plant and the Biosolids Project. The Salt Management Model Phase 1 Update and Validation Project is being implemented to update the Salt Management Model by incorporating additional historic data and new facilities, as well as analyzing and validating a selected alternative proposed in IRWD's STMP.

Model Phase 1 Update and Validation Project:

In May 2020, HDR was retained to perform Phase 1 of the model update work that includes incorporating additional historic data and the ability to simulate the new project facilities put into operation after 2013. In addition, the Phase 1 work includes verifying the update by analyzing a selected alternative from IRWD's draft STMP. Proposed work for Phase 2 of the model update, which is expected to analyze additional alternatives and to include structural enhancements to simplify the use of the model and long-term maintenance, is expected to occur in the next fiscal year.

Phase 1 Work Completed:

HDR has completed the Phase 1 data collection and facility update components of the Project that included the following tasks:

- A complete refresh of historic data from January 2008 to December 2019,
- The addition and/or assessment of new facilities such as the Michelson Water Recycling Plant (MWRP) Phase 2 Expansion, the Biosolids Project, the Baker Water Treatment Plant, sodium hypochlorite conversions, Sand Canyon Reservoir returns to MWRP, the Irvine Lake Pipeline Conversion Project, Green Acres Project diversions and the Peters Canyon Diversion Project, and
- Recalibration of the model.

Additional budget is required to complete the model validation component of the Phase 1 work because the STMP alternative to be modeled is significantly more complex than the analysis envisioned in the original scope of work. The additional budget will facilitate implementation of work under Variance No. 2 of the Professional Services Agreement with HDR.

Variance No. 2 for SMTP Alternative Modeling:

In January 2021, IRWD completed the STMP, which provides a framework for implementation of future capital improvement projects that directly affect IRWD's sewage collection system and treatment plants. The STMP provides an evaluation of several system-wide alternatives. In the plan, an alternative was selected as the system-wide alternative to serve as the basis for the planning of future capital improvement projects. The analysis and validation of the selected alternative is significantly more complex than originally scoped by HDR. HDR has prepared and submitted a scope of work, cost estimate and schedule for Variance No. 2 to its Professional Services Agreement to complete modeling validation work in analyzing the selected alternative. HDR's scope of work, cost and schedule is provided as Exhibit "A".

The additional work to be performed on the Salt Management Model under Variance No. 2 includes the following:

- The ability to divert sewage from several sewer sheds that currently discharge to the Los Alisos Water Recycling Plant (LAWRP) to MWRP and/or El Toro Water District (ETWD);
- The ability to divert a portion of the sewage from the Irvine Business Center (IBC) that currently discharges to OC SAN would discharge to MWRP;
- Expand the LAWRP (secondary/tertiary) treatment capacity from 7.5/5.5 million gallons per day (MGD) to 12.5/10 MGD;
- Incorporate an advanced water purification facility at LAWRP that can process 10 MGD of tertiary treated water and delivery of 8.5 MGD of advanced treated water to the Baker Water Treatment Plant;
- Simulation of a side-stream reverse osmosis (RO) process at MWRP and LAWRP;

- Incorporate a new pipeline and pump station to deliver brine from the new MWRP RO system to the South Orange County Wastewater Authority outfall; and
- The ability to report alternative results at various stages of implementation such as LAWRP diverted to MWRP, LAWRP diverted to MWRP and ETWD, IBC diversion to MWRP, and MWRP and LAWRP, with and without a RO system.

The cost of Variance No. 2 to HDR’s Professional Services Agreement is \$45,500 and execution of the variance is within staff’s authority. To complete the work, a budget increase is needed.

FISCAL IMPACTS:

The cost to complete the Salt Management Model Phase 1 Update and Validation is funded by Project 11135 and is included in the FY 2019 - 2021 Capital Budget. A budget increase in the amount of \$65,000 is required to fund the completion of the Project through Variance No. 2, which includes \$45,500 for HDR’s work and \$19,500 for a 20% contingency and additional staff time, as shown in the table below:

| Project No. | Current Budget | Budget Addition | Total Budget |
|-------------|----------------|-----------------|--------------|
| 11135 | \$187,500 | \$65,000 | \$252,500 |

ENVIRONMENTAL COMPLIANCE:

The Salt Management Model – Phase 1 Update and Validation Project is exempt from the California Environmental Quality Act as authorized under the California Code of Regulations, Title 14, Chapter 3, Section 15262 which provides an exemption for planning studies.

COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on April 20, 2021.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE A BUDGET INCREASE IN THE AMOUNT OF \$65,000, FROM \$187,500 TO \$252,500, FOR PROJECT 11135 TO COMPLETE THE SALT MANAGEMENT MODEL PHASE 1 UPDATE AND VALIDATION PROJECT.

LIST OF EXHIBITS:

Exhibit “A” – Proposal for Salt Management Model Update (Phase 1– System Refresh) – Variance No. 2

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April 7, 2021

Mr. Ray R. Bennett, PE
Engineer
Irvine Ranch Water District
15600 Sand Canyon Avenue
Irvine, California 92618-3100

Subject: **Proposal for Salt Management Model Update (Phase 1 – System Refresh) - Variance No. 2**

Dear Mr. Bennett:

HDR appreciates the opportunity to work with the Irvine Ranch Water District (IRWD or District) to perform the Phase 1 - System Refresh of IRWD's Salt Balance Model. Our proposed request for Variance No. 2 is in response to several meetings held in December 2020 and January 2021, your email on January 28, 2021 and the follow-up discussion on January 29, 2021. Variance No. 2 is intended to perform the modeling for the Sewage Treatment Master Plan (STMP) Preferred Alternative at various stages and approaches to implementation, develop the alternative write-up, and develop the Final Technical Memorandum (TM) as was previously noted in Variance No. 1 to require an increased level of effort.

The scope and associated fee described herein reflect the anticipated level of effort for each task identified below for Phase 1. The following project tasks are included in this scope and fee:

- Task 1 – Project Management
- Task 2 – Meetings
- Task 8 – Evaluate One Alternative
- Task 9 – Technical Memorandum

Scope of Services

TASK 1 | PROJECT MANAGEMENT Project management, coordination, and administration is a continuous task executed throughout the project and includes monthly monitoring of the scope, budget, invoicing and schedule for an additional 2.5 months for the project schedule. Fee includes additional time to manage the added scope with extended schedule, PM coordination, and invoicing.

Deliverables: Monthly progress summary of activities and corresponding invoices.

TASK 2 | MEETINGS HDR will conduct two additional meetings to provide a technical progress update for the modeling and to present the results of the STMP Preferred Alternative. These meetings are assumed to be 1 hour in duration to be attended by HDR's Project Manager and one additional staff member. The level of effort includes meeting attendance. Additional HDR staff may attend as needed.

Assumptions: Meetings will be virtual meetings.

TASK 8 | Evaluate One (1) Alternative The original scope of work estimated the alternative development would require a "level of effort and complexity is similar to previous scenario development performed for the original Salt Balance Model." This task includes the additional time to complete the work beyond initial assumptions to evaluate the STMP Preferred Alternative identified at IRWD's 2020 Strategic Planning Workshop (STMP System-Wide Alternative 12 – Raw Water Augmentation at Baker Water Treatment Plant) at various stages and approaches to implementation. The additional scope includes the following items where the time period selected for each enhancement may be different than the STMP construction schedule to accommodate the Salt Balance Model's forecast period that ends in 2035:

- **8.1 Model RO at treatment plants.** The STMP Preferred Alternative includes a reverse osmosis (RO) treatment facility at both MWRP and LAW RP. In this subtask HDR will:
 - Determine the appropriate parameters to use for RO; to be consistent with STMP.
 - Utilize previously developed RO functionality developed from the original 2015 Salt Model for Alternative 1 to model RO at MWRP. Modification will be required to account for influent to RO that changes with each time step.
 - Create a copy of RO tab calculation and apply to LAW RP.
 - Update macros as needed to complete calculations and record results.
- **8.2 Model interim implementation phase of the STMP Preferred Alternative.** The STMP Preferred Alternative requires all sewage currently delivered to LAW RP to be diverted to other treatment facilities during construction for the LAW RP Modernization project. Once LAW RP Modernization is completed, then sewage flows will be returned to LAW RP, and the Preferred Alternative includes additional diversions to be implemented.

On March 2, 2021, IRWD indicated a recent study determined that most of LAW RP flow will be diverted to MWRP and a portion of LAW RP flow will be diverted to El Toro Water District (ETWD) while LAW RP site improvements are completed. IRWD requested that the modeling effort for this interim phase be accelerated to provide early results and accommodate IRWD's internal schedule to aid in decision making. HDR completed the modeling and delivered these interim results on March 30, 2021. HDR performed the following effort for this subtask:

- Relate the identified diversion points to the sewersheds that will be diverted.
- Update source water sewersheds (Areas 09/10/11) that currently discharge to LAW RP to discharge to MWRP and ETWD from 2022-2024.
- Return sewage discharges from Areas 09/10/11 back to LAW RP from 2024-2035. While the STMP Preferred Alternative includes additional diversions, these were not captured for the initial results in order to meet IRWD's timeline.

After LAW RP is modernized, additional diversions will be implemented as part of the STMP Preferred Alternative. The time period selected for these diversions are different than the STMP construction schedule to accommodate the Salt Balance Model's forecast period that ends in 2035 (as described below). The following effort will be performed for this subtask:

- After LAWRP Modernization is completed, return sewage discharges from Areas 09/10/11 back to LAWRP from 2024-2028 and model LAWRP with/without RO.
- Implement the gravity diversion (Area 08) from MWRP to LAWRP in 2028 and model LAWRP with/without RO.
- Implement a pumped diversion from the IBC (Area 13) to MWRP from 2028-2035, the pumped diversions from MWRP (Areas 06/07) to LAWRP from 2028-2035 and model MWRP and LAWRP with/without RO.
- **8.3 Calibrate IBC sewershed concentrations based on 2018 sampling event from STMP.** The STMP included a 2-week data sampling of residential, commercial, and industrial sewer discharge flow and water quality in the IBC sewershed. In this subtask, HDR will:
 - Analyze the IBC sampling data 2-week sampling effort and other commercial and industrial data and to identify groupings of data (if applicable) in consideration of grab vs. composite samples, time of sample and potential source (i.e. base flow vs. water softener regeneration)
 - Adjust engineering estimates for commercial, commercial water softeners, industrial, and industrial water softeners to calibrate IBC sewershed to the collected IBC sampling effort.
 - Extend the results of the IBC calibration to other sewersheds as appropriate. Recalibrate the model using the calibrated values for Result Area 13 Tab (IBC) and adjusted values for the other sewersheds to include their associated impacts at MWRP.
- **8.4 Run 3 different scenarios (2 additional scenario) and develop write-up.** The original scope of work included one scenario. In this subtask, HDR will:
 - Analyze Alternative 12-1 that includes:
 - Interim flows from LAWRP to MWRP (2022-2024)
 - Sewershed diversions for Area (06/07/08/13)
 - Include Calibrated IBC concentration
 - Do NOT include RO treatment at MWRP and LAWRP
 - Analyze Alternative 12-2 that includes:
 - Interim flows from LAWRP to MWRP and EI Toro (2020-2024)
 - Sewershed diversions for Area (06/07/08/13)
 - Include Calibrated IBC concentration
 - Do NOT include RO treatment at MWRP and LAWRP
 - Analyze Alternative 12-3 that includes:
 - Interim flows from LAWRP to MWRP and EI Toro (2020-2024)
 - Sewershed diversions for Area (06/07/08/13)
 - Include Calibrated IBC concentration
 - Includes RO treatment at MWRP and LAWRP

Assumptions:

- *Review comments on the draft alternative analysis write-up will be addressed under Task 9 in the Final Technical Memorandum.*
- *Flow diversions will be implemented as entire sewersheds established using the current Salt Balance Model methodology based on a preliminary analysis that indicates simulating the entire sewershed is no more than 8% greater in flow (0.5 mgd) at buildout (6.4 mgd) than the actual diversion point. Any model enhancements required to split flows from a sewershed to multiple treatment facilities and/or add new sewersheds will be considered in Phase 2.*
- *Under the STMP Preferred Alternative, the gravity and pumped diversions from the MWRP tributary area to LAWRP and the pumped diversion from IBC area to MWRP occur within*

Mr. Ray R. Bennett, P.E.
 April 7, 2021

the same year; this is reflected as sewershed diversions for Area (06/07/08/13).

- *Under the STMP Preferred Alternative, advanced treated water produced at LAW RP would be conveyed for raw water augmentation at Baker Water Treatment Plant. This additional influent supply source at Baker would offset the usage of untreated imported water supply. A minimum TDS level of advanced treated water will be established based on best engineering judgment for the conceptual advanced treatment process.*

Deliverables:

- *Draft write-up of the analysis and results for the STMP Preferred Alternative (electronic copy in .docx and .pdf format) will be expanded to include discussion on the new scope items.*

TASK 9 | TECHNICAL MEMORANDUM This task includes the effort required to address IRWD review comments on the Draft TM, Executive Summary, Data Collection Memo, and Alternative write-up. The development of the Final TM, Executive Summary, and Data Collection Memo are included in this task as well.

Assumptions:

- *IRWD review comments from multiple reviewers will be provided in a single set.*
- *Draft write-ups that describe the data collection activities in Task 3 and the alternative analysis in Task 8 will be utilized.*

Deliverables:

- *Final TM (electronic copy in .pdf format)*
- *Final Salt Model (electronic copy in Excel format)*

General Assumptions

- General assumptions identified in the executed contract apply herein.

Schedule

Upon receipt of approval for Variance No. 2, HDR's proposed schedule is to complete the work in 2.5 months by the durations identified below.

| Milestone | Duration | Anticipated Date of Completion |
|--|---|---------------------------------------|
| Variance No. 2 Approval (anticipated) | April 12, 2021 | April 12, 2021 |
| Receive IRWD Review Comments on Draft TM and Executive Summary | About 1 week from variance approval | April 19, 2021 |
| Technical Progress Update Meeting | About 2.5 weeks from variance approval | April 28, 2021 |
| STMP Preferred Alternative Results Meeting and Submit Draft Alternative Write-up | About 5 weeks from variance approval | May 17, 2021 |
| Receive IRWD Review Comments on Draft Alternative Write-up | About 2 weeks from Draft Alternative Write-up | May 31, 2021 |
| Submit Final TM, Executive Summary, Data Collection Memo, and Salt Balance Model | About 2.5 months from variance approval | June 30, 2021 |

Mr. Ray R. Bennett, P.E.
April 7, 2021



Estimated Fee

HDR proposes to provide our services for Tasks 1 through 9 on an hourly rate basis plus travel and expenses and assumes project completion in 2.5 months after the Variance No. 2 approval is provided. The proposed not-to-exceed fee estimate for these Tasks is detailed in the attached fee spreadsheet table. Our proposal is valid for 30 days.

Thank you for this opportunity to continue working with Irvine Ranch Water District in the refresh of IRWD's Salt Balance Model. Please contact Amy Omae (714) 730-2344 if you have any questions.

Sincerely,

HDR Engineering, Inc.

A handwritten signature in blue ink, appearing to read 'Kip D. Field'.

Kip D. Field, PE
Sr. Vice President, Authorized Signatory

A handwritten signature in blue ink, appearing to read 'Amy Omae'.

Amy Omae, PE
Project Manager

cc: Joseph Nye, PE, PMP
Gregorio Estrada, PE
Curtis Gauthier, PE

Irvine Ranch Water District
 Salt Management Model Update - Phase 1 System Refresh and Validation - Variance 2
 Estimated Level of Effort and Fee



| NO. | TASK DESCRIPTION | LEVEL OF EFFORT, HOURS | | | | | | | | | FEE, DOLLARS | | | | | |
|----------|---|------------------------|-----------------|-----------------|---------------------|------------------|----------------|---------------------|------------|---------------------|--------------|---------------|----------|--------------|---------------|---------------|
| | | Principal | Quality Manager | Project Manager | Sr Project Engineer | Project Engineer | Staff Engineer | Document Specialist | Accountant | Project Coordinator | TOTAL LABOR | LABOR | SUBS | DIRECT COSTS | TOTAL | TOTAL |
| | Client Billing Rates | \$330 | \$300 | \$245 | \$240 | \$155 | \$125 | \$125 | \$140 | \$115 | \$170 | | | | | |
| 1 | Project Management | | | | | | | | | | | | | | | |
| 1.1 | Project Management, Administration, and Coordination | 2 | | 6 | | 2 | | | 4 | 4 | 18 | 3,460 | 0 | | 3,460 | |
| | Subtotal 1 Project Management | 2 | 0 | 6 | 0 | 2 | 0 | 0 | 4 | 4 | 18 | 3,460 | 0 | 0 | 3,460 | 3,500 |
| 2 | Meetings | | | | | | | | | | | | | | | |
| 2.3 | Technical Meeting (2) | | 4 | 4 | | 4 | | | | | 12 | 2,800 | 0 | | 2,800 | |
| | Subtotal 2 Meetings | 0 | 4 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 12 | 2,800 | 0 | 0 | 2,800 | 2,800 |
| 3 | Data Gathering, Evaluation, and Model Refresh | | | | | | | | | | | | | | | |
| | Subtotal 3 Data Gathering, Evaluation, and Model Refresh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 | Evaluate One Alternative | | | | | | | | | | | | | | | |
| 8.1 | Model RO at Treatment Plants | | 1 | 4 | 2 | 16 | 8 | | | | 31 | 5,240 | 0 | | 5,240 | |
| 8.2 | Model interim implementation phase (All LAW RP Flows to MWRP/ETWD) | | | 4 | | 8 | 4 | | | | 16 | 2,720 | 0 | | 2,720 | |
| 8.3 | Calibrate IBC sewershed to 2019 sampling data | | 1 | 6 | 4 | 40 | 12 | | | | 63 | 10,430 | 0 | | 10,430 | |
| 8.4 | Develop 2 additional scenarios run to reflect RO and IBC concentrations | | 1 | 10 | | 30 | 20 | | | | 61 | 9,900 | 0 | | 9,900 | |
| | Subtotal 8 Evaluate One Alternative | 0 | 3 | 24 | 6 | 94 | 44 | 0 | 0 | 0 | 171 | 28,290 | 0 | 0 | 28,290 | 28,300 |
| 9 | Technical Memorandum - Additional Time | | | | | | | | | | | | | | | |
| 9.2 | Final TM | | 4 | 10 | | 20 | 28 | 4 | | | 66 | 10,750 | 0 | | 10,750 | |
| | Subtotal 9 Technical Memorandum - Additional Time | 0 | 4 | 10 | 0 | 20 | 28 | 4 | 0 | 0 | 66 | 10,750 | 0 | 0 | 10,750 | 10,800 |
| | TOTAL, hours | 2 | 11 | 44 | 6 | 120 | 72 | 4 | 4 | 4 | 267 | | | | | |
| | TOTAL, dollars | | | | | | | | | | | 45,300 | 0 | 0 | 45,300 | 45,400 |

April 26, 2021
Prepared by: I. Swift
Submitted by: J. Zepeda / W. Chambers
Approved by: Paul A. Cook 

ACTION CALENDAR

SAN JOAQUIN MARSH OPERATING GUIDELINES AND NATURAL TREATMENT SYSTEM FACILITIES THREE-YEAR LANDSCAPE MAINTENANCE SERVICES CONTRACT

SUMMARY:

To ensure effective operation of the San Joaquin Marsh going forward, the San Joaquin Marsh Operating Guidelines have been updated. At the Board meeting, staff will summarize and discuss Marsh operations and key revisions to the updated guidelines. Staff has also received a proposal to provide landscape maintenance services throughout IRWD's Natural Treatment System (NTS). Staff recommends the Board authorize the General Manager to execute five three-year contracts for landscape maintenance services at IRWD's NTS facilities, including a provision for a two-year extension, with LandCare and Endemic Environmental totaling \$4,560,733.

BACKGROUND:

San Joaquin Marsh Operations and Maintenance Guidelines Update:

The San Joaquin Marsh Operations and Maintenance Guidelines, first developed in 2006 and updated in 2012, are used by staff to manage water flow through the San Joaquin Marsh to ensure standards for water quality are achieved and to protect Marsh facilities and habitat. Since 2012, the regulatory environment has changed substantially, and staff recognized the need to update the key operating principles and address critical natural resource components.

In 2020, Environmental Science Associates (ESA) was retained to assist with developing a comprehensive plan that would include improved operating guidelines and reflect an adaptive resource management strategy. Completed in March 2021, the San Joaquin Marsh Operating Guidelines and Resource Management Plan includes water management, habitat protection, pest management and vector control strategies, and enhanced operating principles. The updated plan will help guide IRWD to manage the Marsh going forward. An Executive Summary of the San Joaquin Marsh Operating Guidelines and Resource Management Plan is provided as Exhibit "A". A presentation of the highlights of the new operating guidelines is provided as Exhibit "B".

Landscape Maintenance Services Contract Award:

Landscape maintenance, trash control, and light sediment removal are integral to the operation and maintenance of the San Joaquin Marsh and its campus, Peters Canyon Water Capture and Reuse Pipeline, and 44 Natural Treatment System (NTS) facilities, covering a total of 532 landscaped acres. The current three-year contract to perform landscape maintenance services expires in 2021.

IRWD invited five environmental consulting and landscape maintenance companies to participate in the request for proposal (RFP) process. Firms were selected based on their experience with the District and with projects involving natural habitat restoration and wetland environments. The process included an opportunity to conduct a self-walk-through at the Marsh and three NTS facilities that were representative of the system. Of the five companies invited, three did not submit bids, and two firms, LandCare and Endemic Environmental, submitted a joint proposal. LandCare is the current landscape services provider at both facilities and has performed satisfactorily. Of the three firms that did not submit bids, one sent a formal “no bid” letter and the remaining firms sent emails indicating they did not have sufficient labor to successfully bid on this unique, habitat maintenance-focused contract.

The third year of the current contract is \$1,204,716 and includes 32 NTS facilities, the San Joaquin Marsh and its campus and Peters Canyon. The first-year cost of the proposed three-year contract is \$1,453,838 and covers 532 landscaped acres that includes 44 NTS facilities, the Marsh and its campus, and Peters Canyon. The 21% increase in cost over the last year of the current contract is the result of the addition of 12 NTS facilities, increases in the minimum wage the last two years and the requirement that weed abatement be performed without the use of glyphosate-based herbicides to comply with the District’s 2019 Integrated Pest Management Plan. The contract includes an annual escalation for wage and cost-of-living adjustments (COLA), and a provision for a two-year extension at the discretion of the District. A summary of the maintenance services proposal costs is provided as Exhibit “C”.

Staff recommends the Board authorize the General Manager to execute five three-year contracts for landscape maintenance services, including a provision for a two-year extension with LandCare and Endemic Environmental totaling \$4,560,733.

FISCAL IMPACTS:

Funds for this contract will be requested through IRWD’s Fiscal Year 2021-2022 budget process.

ENVIRONMENTAL COMPLIANCE:

The landscape maintenance activities performed under this contract will be in accordance with provisions of the San Joaquin Marsh Enhancement Plan Environmental Impact Report (EIR) and the NTS Master Plan EIR.

COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on April 20, 2021.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE FIVE THREE-YEAR CONTRACTS FOR LANDSCAPE MAINTENANCE SERVICES AT IRWD’S NATURAL TREATMENT SYSTEM FACILITIES, INCLUDING A PROVISION FOR A

Action Calendar: San Joaquin Marsh Operating Guidelines and NTS Three-Year Landscape Maintenance Services Contract

April 26, 2021

Page 3

TWO-YEAR EXTENSION, WITH LANDCARE AND ENDEMIC ENVIRONMENTAL TOTALING \$4,560,733.

LIST OF EXHIBITS:

Exhibit "A" – San Joaquin Marsh Operating Guidelines and Resource Management Plan Executive Summary

Exhibit "B" – San Joaquin Marsh Operating Guidelines and Resource Management Plan Presentation

Exhibit "C" – IRWD Natural Treatment System Landscape Maintenance Services Contracts Proposal

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SAN JOAQUIN MARSH

Operating Guidelines and Resources Management Plan

Executive Summary

The 321-acre San Joaquin Marsh (SJM) is one of the largest inland freshwater marsh systems in Southern California, and is owned and operated by Irvine Ranch Water District (IRWD). Located on land adjacent to lower San Diego Creek that has been impacted by years of urban runoff and the construction of the San Diego Creek flood control channel, the marsh was the epicenter of a major wetland creation and water quality treatment effort that includes riparian wetlands to the north and open water and freshwater marsh treatment wetlands to the south. The treatment wetlands were designed to reduce eutrophication in Newport Bay by removing pollutants from San Diego Creek before they enter the bay, while providing habitats for a broad range of wildlife.

This Operating Guidelines and Resource Management Plan (OG&RMP) is intended to update the SJM Operating Guidelines developed in 2006 to incorporate new/current conditions and refine operations at the SJM. The following key objectives are recommended for the SJM OG&RMP:

1. Improve San Diego Creek and Upper Newport Bay water quality
 - a. Remove pollutants including nutrients from San Diego Creek inflows and SJM's local watershed
 - b. Return outflows from SJM to San Diego Creek with lower levels of pollutants and improved water quality compared to San Diego Creek inflows
2. Support functional native freshwater marsh and riparian habitats
 - a. Minimize the establishment, and control the spread of non-native, invasive weed species
 - b. In freshwater marsh habitat areas, manage creek inflows and marsh outflows to maintain water levels and residence times that support water quality improvement and marsh habitats
 - c. In riparian habitat areas, manage for seasonal hydrology that mimics and supports natural hydrologic functions
 - d. Maintain water and sediment quality conditions that support native habitats and species and meet regulatory requirements
 - e. Manage destructive pests such as African clawed frog and polyphagous shot-hole borer (PSHB)
 - f. Avoid or reduce impacts to special-status species, including least Bell's vireo, yellow warbler, yellow-breasted chat, and nesting birds and raptors (birds of prey), particularly white-tailed kite
3. Allow for vector control and, where possible, perform operations and maintenance that reduce the need for and cost of vector control

4. Reduce the risk of flooding from SJM to surrounding areas
5. Maintain a monitoring program to track the performance of SJM relative to objectives (i.e., continue the current monitoring program and refine the program as needed)
6. Establish an adaptive management plan that provides a decision framework for evaluating SJM performance against quantifiable criteria, monitoring performance, and adaptive management measures to improve performance.

This OG&RMP characterized existing habitat conditions of the SJM, including geographical setting, physical and climatic conditions (i.e., hydrogeology and soils, climate, hydrology, water management and irrigation, and water and sediment quality), and biological resources (i.e., vegetation communities, plants, wildlife, and special-status species). This OG&RMP also characterizes the permitted public access and passive recreational activities, which are consistent with the objectives of this plan, and outlines other restricted activities that could conflict with plan objectives, such as those that may disturb native wildlife or degrade water quality.

Monitoring is recommended to ensure that biological resources are conserved and protected, hydrologic functions and water quality are maintained, and the general condition of the SJM is preserved. Monitoring can determine whether invasive species, erosion, or sedimentation are becoming significant issues, and whether the public is abiding by the rules and restrictions.

This OG&RMP details the Operations and Maintenance for the SJM, and provides recommendations for improvements wherever appropriate, for water management, irrigation, water quality treatment, access control, vegetation management, wildlife protection, pest management (following IRWD's Integrated Pest Management Plan), vector control, sediment management, trail and road maintenance, and trash removal.

Adaptive management recommendations for the SJM are also included. Invasive plant removal is recommended if monitoring identifies an increase in invasive species, and methodology for revegetation is provided if monitoring detects dieback of vegetation (e.g., due to drought stress, disease, or herbivory). To improve habitat and water quality conditions, this plan recommends changing the current Michelson and Carlson Marsh flood irrigation regime to a reduced watering irrigation regime through an adaptive management approach. Sediment removal is not recommended at this time; however, continued monitoring of sedimentation, pond depths, and water and sediment quality is recommended. To maintain the integrity of the SJM, site protection should include a combination of patrolling and maintenance of signage and fencing.

Finally, this OG&RMP recommends a baseline survey report to document the existing conditions and, thereafter, an annual report summarizing the status of the SJM, results of the monitoring efforts, and all major actions taken since the last assessment.

IRWD San Joaquin Marsh: Operating Guidelines & Resource Management Plan Three-year Landscape Maintenance Services Contract

IRWD Board Meeting
April 26, 2021



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Agenda

1. Background
2. San Joaquin Marsh Overview
3. Operating Objectives
4. Operating Guidelines and Resource Management Plan
5. SJM and NTS Landscape Services Contract Award

Irvine Ranch Water District

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Background

- 2006 – SJ Marsh Operations and Maintenance Plan: developed in-house (based on several earlier versions)
- 2012 – SJ Marsh Operations and Maintenance Plan: formalized and presented to E&O Committee
- 2021 – SJ Marsh Operations and Maintenance Plan: updated to Operating Guidelines and Resource Management Plan

Irvine Ranch Water District

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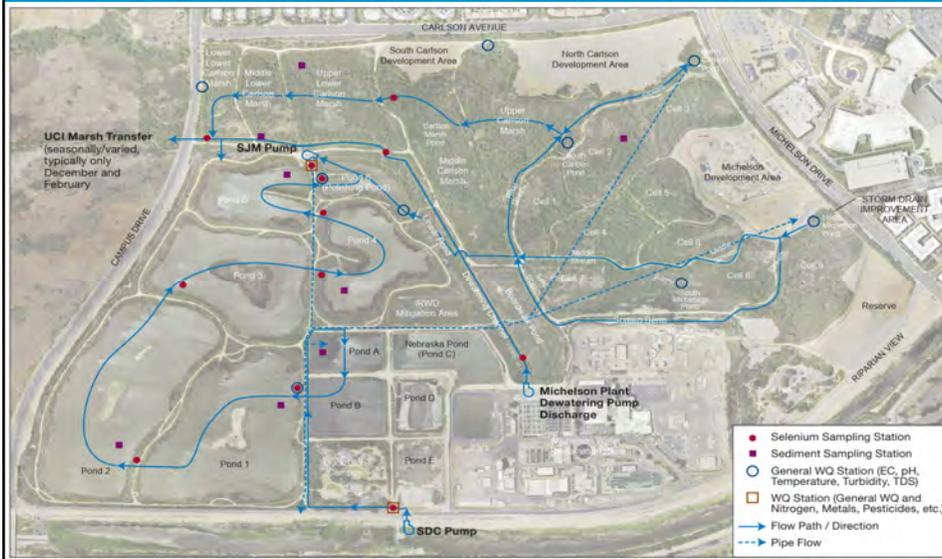
Background

- The O&M Plan has guided District's overall operations and management approach for the San Joaquin Marsh.
- San Joaquin Marsh operating conditions have changed since the 2006 Operating Guidelines were developed.
- This updated Operating Guidelines & Resource Management Plan (OG&RMP):
 - Incorporates new/current conditions
 - Refines guidelines for operations and management
 - Allows for adaptive management under unique circumstances
 - Adds natural resource management components

Irvine Ranch Water District

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Marsh Overview: SJ Marsh Flow Schematic

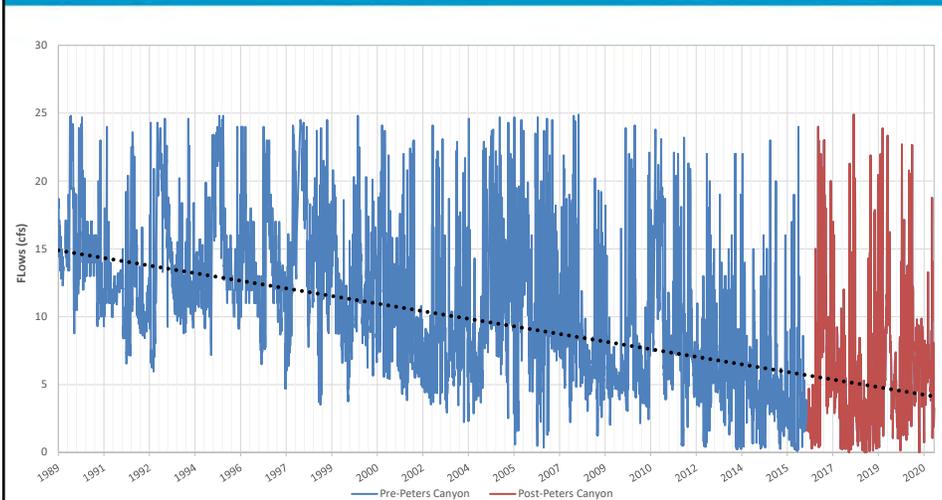


Irvine Ranch Water District

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Marsh Overview: Non-storm Discharge to Creek



Irvine Ranch Water District

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Marsh Overview: Biological Resources

- Mosaic of native natural communities
 - Freshwater marsh
 - Riparian habitats
 - Coastal sage scrub
- Over 16 special-status wildlife species, including threatened and endangered species
 - Least Bell's vireo
 - Willow flycatcher
 - California gnatcatcher



Irvine Ranch Water District

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SJ Marsh Operating Objectives

- 1) Improve Water Quality: Improve San Diego Creek and Upper Newport Bay water quality.
- 2) Protect Marsh Facilities & Habitat: Support functional, resilient, and native freshwater marsh and riparian habitats by maintaining water levels in SJM.
- 3) Control Vectors: Allow for vector control and, where possible, perform operations and maintenance that reduce the need for and cost of vector control.
- 4) Reduce Flood Risk: Reduce the risk of flooding from SJM to surrounding areas.
- 5) Monitor Performance: Maintain a monitoring program to track the performance of SJM relative to objectives (i.e., continue the current monitoring program and refine the program as needed).

Key Method: Adaptive Management

Plan provides a decision framework for evaluating SJ Marsh performance against quantifiable criteria, monitoring performance, and adaptive management measures to improve performance.

Irvine Ranch Water District

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Operating Guidelines & Resource Management Plan

Operation & Maintenance Programs:

- Water Management, Irrigation, and Water Quality Treatment
- Access Control
 - Site Protection (Patrolling, Signage, Fencing)
- Vegetation Management
 - Invasive Plant Removal
 - Revegetation
- Wildlife Protection
- Pest Management
- Vector Control
- Sediment Management
- Trail and Road Maintenance
- Trash Removal

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San Joaquin Marsh Performance Summary

Effective Planning = Successful Results

- 1) San Joaquin Marsh continues to remove nitrogen, selenium and other constituents from San Diego Creek water after 20+ years of operation
 - Nitrogen and selenium levels in San Diego Creek water from upstream sources have also reduced
 - Key component with MWRP Nitrogen and Phosphorus offset; and Selenium offset/trading programs
- 2) Marsh is performing water quality treatment well and is not in need of maintenance to improve treatment.
- 3) Multiple species are thriving in diverse wetland habitats.
- 4) Will continue to guide the District's management and operation of the San Joaquin Marsh.

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Landscape Contract Summary

Changed Conditions:

- 44 sites now, compared with 32 in current contract
- Revised Integrated Pest Management Plan and associated costs
- Annual cost increases

Bid Process / Results:

- Five firms asked to bid; two responded with bids and partnered together
- Three firms declined due to the significant labor required for the contract
- Overall, all five contracts for Year 1 are 18% higher and 22% overall for the three year

Irvine Ranch Water District 12

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Landscape Contract Bids

| Area | Current Year Cost | Year 1 New Bid | Three Year Total New Bid w/ escalation |
|--------------------|--------------------|--------------------|--|
| San Joaquin Marsh | \$503,930 | \$543,203 | \$1,704,041 |
| Peters Canyon | \$14,400 | \$14,971 | \$46,972 |
| SJM Campus | \$35,503 | \$107,885 | \$338,438 |
| NTS Combined | \$650,883 | \$787,779 | \$2,471,282 |
| Grand Total | \$1,204,716 | \$1,453,838 | \$4,560,733 |

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Staff Recommendation

That the Board authorize the General Manager to execute five three-year contracts for landscape maintenance services at IRWD's NTS facilities, including a provision for a two-year extension, with LandCare and Endemic Environmental totaling \$4,560,733.

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Bid Matrix

| Description | Contractor | Year 1 | Year 2 | Year 3 | Total |
|-------------------|------------|-----------------|-----------------|-----------------|-----------------|
| NTS North | LandCare | \$ 366,458.00 | \$ 382,948.61 | \$ 400,181.30 | \$ 1,149,587.91 |
| NTS South | LandCare | \$ 421,321.00 | \$ 440,280.45 | \$ 460,093.07 | \$ 1,321,694.52 |
| Peters Canyon | LandCare | \$ 14,971.00 | \$ 15,644.70 | \$ 16,356.00 | \$ 46,971.70 |
| San Joaquin Marsh | LandCare | \$ 543,203.00 | \$ 567,647.14 | \$ 593,191.26 | \$ 1,704,041.40 |
| SJM Marsh Campus | LandCare | \$ 107,885.00 | \$ 112,739.83 | \$ 117,813.12 | \$ 338,437.95 |
| | | \$ 1,453,838.00 | \$ 1,519,260.73 | \$ 1,587,634.75 | \$ 4,560,733.48 |

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April 26, 2021
Prepared by: J. Dayer
Submitted by: R. Mykitta / W. Chambers
Approved by: Paul A. Cook



ACTION CALENDAR

DISTRICT-WIDE LANDSCAPE AND IRRIGATION MAINTENANCE THREE-YEAR CONTRACT AWARD

SUMMARY:

Tropical Plaza Nursery, Inc. was awarded a three-year landscape and irrigation maintenance contract for 146 IRWD sites in March 2020. Midway through its first year of the contract, Tropical Plaza informed IRWD that due to unexpected operating expenses, it could not continue to provide services under the terms of the contract. In March 2021, staff conducted a competitive bidding process to retain a landscape and irrigation maintenance contractor to provide landscape services at IRWD properties for a three-year term. Staff recommends the Board authorize the General Manager to award a three-year landscape and irrigation maintenance contract to Trugreen Landcare, LLC for \$1,557,813 for maintaining the 146 sites.

BACKGROUND:

In March 2020, Tropical Plaza was awarded a three-year contract for landscape and irrigation maintenance at 146 sites for \$1,727,796. The contractor was required to conduct weed abatement without the use of glyphosate-based herbicides in accordance with IRWD's Integrated Pest Management Plan. In August 2020, Tropical Plaza informed the District that it had incorrectly estimated the additional labor required to meet the contract requirements. A change order was approved to complete the first contract year which expired on March 31, 2021.

Bid Process:

Staff solicited bids from six landscape contractors for landscape and maintenance services at 146 IRWD properties. Five conforming bids were received and are detailed in Exhibit "A". Trugreen Landcare, LLC was the low bidder with a bid of \$1,557,813. After conducting a follow-up discussion with TruGreen to ensure it understood the contract specifications and can perform the work at its quoted price, staff is confident that TruGreen is capable of meeting the contract requirements.

FISCAL IMPACTS:

Sufficient funds for the first two months of the contract are included in the Fiscal Year 2020-21 Operating Budget. Funds for the remaining term will be requested through the District's budget process.

ENVIRONMENTAL COMPLIANCE:

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

Action Calendar: District-wide Landscape and Irrigation Maintenance Three-year Contract
Award
April 26, 2021
Page 2

COMMITTEE STATUS:

Contract awards are not typically submitted to a Committee.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE A THREE-YEAR LANDSCAPE AND IRRIGATION MAINTENANCE CONTRACT WITH TRUGREEN LANDCARE, LLC FOR \$1,557,813 TO MAINTAIN 146 IRWD SITES.

LIST OF EXHIBITS:

Exhibit "A" – Three-Year Landscape Contract Bid Summary

EXHIBIT "A"
2021 Districtwide Landscape Bid Matrix

Year 1 (Yearly)

| | Area 1 | Area 2 | Area 3 | Area 4 | Area 5 | Area 6 | Area 7 | Total |
|----------------|---------------|---------------|--------------|---------------|---------------|---------------|--------------|---------------|
| Bright View | \$ 96,841.68 | \$ 73,085.16 | \$ 60,280.56 | \$ 160,913.40 | \$ 184,115.40 | \$ 170,136.12 | \$ 43,882.80 | \$ 789,255.12 |
| LandCare | \$ 75,840.00 | \$ 45,120.00 | \$ 45,600.00 | \$ 95,040.00 | \$ 118,560.00 | \$ 101,760.00 | \$ 22,080.00 | \$ 504,000.00 |
| Mission | \$ 230,916.00 | \$ 218,544.00 | No Bid | No Bid | \$ 305,268.00 | No Bid | No Bid | \$ 754,728.00 |
| Tropical Plaza | \$ 107,463.60 | \$ 84,750.43 | \$ 67,868.40 | \$ 174,681.40 | \$ 207,112.33 | \$ 176,906.20 | \$ 43,917.12 | \$ 862,699.48 |
| Villa Park | \$ 91,440.00 | \$ 71,280.00 | \$ 61,680.00 | \$ 153,600.00 | \$ 176,820.00 | \$ 164,880.00 | \$ 42,480.00 | \$ 762,180.00 |

Year 2 (Yearly)

| | Area 1 | Area 2 | Area 3 | Area 4 | Area 5 | Area 6 | Area 7 | Total |
|----------------|---------------|---------------|--------------|---------------|---------------|---------------|--------------|---------------|
| Bright View | \$ 98,778.60 | \$ 74,546.64 | \$ 61,487.40 | \$ 164,131.56 | \$ 187,797.60 | \$ 173,538.84 | \$ 44,760.24 | \$ 805,040.88 |
| LandCare | \$ 78,115.20 | \$ 46,473.60 | \$ 46,968.00 | \$ 97,891.20 | \$ 122,116.80 | \$ 104,812.80 | \$ 22,742.40 | \$ 519,120.00 |
| Mission | \$ 237,843.48 | \$ 225,100.32 | No Bid | No Bid | \$ 305,268.00 | No Bid | No Bid | \$ 768,211.80 |
| Tropical Plaza | \$ 110,687.51 | \$ 87,292.95 | \$ 69,904.45 | \$ 179,921.84 | \$ 213,325.70 | \$ 182,213.39 | \$ 45,234.63 | \$ 888,580.47 |
| Villa Park | \$ 91,440.00 | \$ 71,280.00 | \$ 61,680.00 | \$ 153,600.00 | \$ 176,820.00 | \$ 164,880.00 | \$ 42,480.00 | \$ 762,180.00 |

Year 3 (Yearly)

| | Area 1 | Area 2 | Area 3 | Area 4 | Area 5 | Area 6 | Area 7 | Total |
|----------------|---------------|---------------|--------------|---------------|---------------|---------------|--------------|---------------|
| Bright View | \$ 99,766.56 | \$ 75,291.96 | \$ 62,101.80 | \$ 165,772.92 | \$ 189,675.84 | \$ 175,274.16 | \$ 45,208.08 | \$ 813,091.32 |
| LandCare | \$ 80,458.56 | \$ 47,867.76 | \$ 48,377.04 | \$ 100,827.84 | \$ 125,780.28 | \$ 107,957.16 | \$ 23,424.60 | \$ 534,693.24 |
| Mission | \$ 244,978.80 | \$ 231,853.32 | No Bid | No Bid | \$ 323,858.88 | No Bid | No Bid | \$ 800,691.00 |
| Tropical Plaza | \$ 114,008.13 | \$ 89,911.74 | \$ 72,001.59 | \$ 185,319.50 | \$ 219,725.48 | \$ 187,679.79 | \$ 46,591.67 | \$ 915,237.90 |
| Villa Park | \$ 95,100.00 | \$ 74,124.00 | \$ 64,140.00 | \$ 159,744.00 | \$ 183,888.00 | \$ 171,480.00 | \$ 44,172.00 | \$ 792,648.00 |

Three Year Grand Total

| | Area 1 | Area 2 | Area 3 | Area 4 | Area 5 | Area 6 | Area 7 | Total |
|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|
| Bright View | \$ 295,386.84 | \$ 222,923.76 | \$ 183,869.76 | \$ 490,817.88 | \$ 561,588.84 | \$ 518,949.12 | \$ 133,851.12 | \$ 2,407,387.32 |
| LandCare | \$ 234,413.76 | \$ 139,461.36 | \$ 140,945.04 | \$ 293,759.04 | \$ 366,457.08 | \$ 314,529.96 | \$ 68,247.00 | \$ 1,557,813.24 |
| Mission | \$ 713,738.28 | \$ 675,497.64 | No Bid | No Bid | \$ 934,394.88 | No Bid | No Bid | \$ 2,323,630.80 |
| Tropical Plaza | \$ 332,159.24 | \$ 261,955.12 | \$ 209,774.44 | \$ 539,922.74 | \$ 640,163.51 | \$ 546,799.38 | \$ 135,743.42 | \$ 2,666,517.85 |
| Villa Park | \$ 277,980.00 | \$ 216,684.00 | \$ 187,500.00 | \$ 466,944.00 | \$ 537,528.00 | \$ 501,240.00 | \$ 129,132.00 | \$ 2,317,008.00 |
| Lowest | \$ 234,413.76 | \$ 139,461.36 | \$ 140,945.04 | \$ 293,759.04 | \$ 366,457.08 | \$ 314,529.96 | \$ 68,247.00 | |
| Average | \$ 370,735.62 | \$ 303,304.38 | \$ 180,522.31 | \$ 447,860.92 | \$ 608,026.46 | \$ 470,379.62 | \$ 116,743.39 | |

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April 26, 2021

Prepared by: T. Mitcham / C. Compton /
W. Chambers / C. Clary

Approved by: Paul A. Cook



ACTION CALENDAR

IRWD REOPENING PLAN CONSIDERATIONS

SUMMARY:

Due to the continued reduction of COVID-19 cases and related hospitalizations, coupled with the broad administration of millions of vaccines, the Governor recently announced that California will soon reopen businesses in all sectors. Businesses will likely be able to resume usual operations – with reasonable risk reduction measures in place – starting on June 15, 2021. To help guide IRWD’s approach to reopening its facilities to the public, staff has developed a tiered schedule along with recommendations to ensure employees and the public remain safe. The reopening target dates will align guidance from the Centers for Disease Control (CDC), the California Department of Public Health, Cal/OSHA, and the County of Orange Health Care Agency. As state and local guidance evolves, staff will provide updates and recommendations to the Board, as appropriate. Staff recommends the Board review and discuss the suggested target dates and recommended actions for public IRWD Board and Committee meetings, public use of IRWD facilities, and the reopening of IRWD’s Customer Service Counter.

BACKGROUND:

Business as usual across the United States was halted abruptly in March 2020, as employers shifted their focus to keeping their employees safe while ensuring work was performed during COVID-19. IRWD responded quickly, making the health and safety of the Board, staff, and customers its top priority. All IRWD facilities and buildings were immediately closed to the public, and where possible employees were equipped to work from their homes. Employees in departments such as Field Services, Construction, Laboratory Analysis, and Operations, whose jobs could not be performed remotely, were supplied with the necessary Personal Protection Equipment and directed to maintain six-foot distances from one another whenever possible.

With California’s target reopening date now set, staff evaluated what will be necessary to safely open IRWD facilities to the public. Staff recommends a tiered reopening approach along with the District’s ongoing social distancing, OSHA-required face coverings and other COVID-19 reduction measures. The proposed tiered reopening is as follows, provided California reopens as planned on June 15.

1) Public Board and Committee Meetings

Staff proposes the District resume full, in-person Board and Committee meetings beginning on June 15, 2021, with the following recommendations:

- Board and Committee meetings would be held in IRWD’s combined Board Room and Multi-Purpose Room where participants and attendees would be able to maintain social distance;

- Both meeting rooms would be used for all public meetings to permit physical distancing of at least six feet between attendees (Board, staff, and the public);
- Signage would be posted at the entrance of the Board and Committee meetings notifying the public about the ongoing risk of COVID-19 and that they must follow social distancing, face-covering, and other COVID-19 reduction protocols;
- HVAC equipment serving the Board Room and Multi-Purpose Room has been evaluated and the systems filters have been upgraded to increase air filtration. An exterior door(s) will be opened if more ventilation is desired;
- Ingress and egress will be monitored to prevent concentrations of people entering and exiting the rooms; and
- Existing technology will be assessed, and upgrades implemented, to improve meeting efficiency given social distancing requirements.

2) Public Use of IRWD Facilities (Community Room and San Joaquin Marsh Campus)

A soft reopening of the Community Room and San Joaquin Marsh Campus facilities is recommended, with outside camps and tours beginning July 1, 2021, followed by limited indoor activities starting on August 1, 2021. Reservations for fall and winter events would commence on September 1, 2021. The following actions are recommended to ensure the safety of all participants:

- Announce the reopening of the Community Room and Duck Club for public use beginning in September;
- Modify the District's application and use agreements to address COVID-19, and require waivers from participants where appropriate;
- Review proposed uses and group size to ensure activities comply with the current state and local guidelines;
- Post proper signage notifying the public about the risk of COVID-19 and that they must follow social distancing, face-covering and other COVID-19 reduction protocols; and
- Continue to follow the CDC's guidance for cleaning and disinfecting following each group's use.

Staff has coordinated this approach with the Sea & Sage Audubon Society, and these dates align with their tentative plans for summer educational programs.

3) Customer Service Counter and Sand Canyon Lobby Re-Opening

Since March 2020, many IRWD employees have been teleworking and productivity remains high. Metrics regarding IRWD Customer Service remain excellent, with very short on-hold wait-times and very high customer satisfaction rankings. Based on this data, staff recommends coordinating the reopening of the Sand Canyon building lobby with the return of all IRWD employees.

Employees Returning to the Office:

The official date for employees to return to the office has not yet to been determined. Departments are currently developing return-to-work plans, based on general guidelines provided by the General Manager. The following considerations will be included in staff's evaluation of when employees will return to working in the office:

- Continue to comply with current state and local guidelines (particularly Cal-OSHA), including applicable social distancing and face-covering requirements; and
- Reevaluate the employee commuter program and implement the necessary safety protocols.

FISCAL IMPACTS:

Not applicable.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

This item was not reviewed by a Committee.

RECOMMENDATION:

RECEIVE AND FILE.

LIST OF EXHIBITS:

None.

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