

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

March 9, 2020

**PLEDGE OF ALLEGIANCE**

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

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

**NOTICE**

If you wish to address the Board on any item, including Consent Calendar items, please file your name with the Secretary. Forms are provided on the lobby table. Remarks are limited to three minutes per speaker on each subject. Consent Calendar items will be acted upon by one motion, without discussion, unless a request is made for specific items to be removed from the Calendar for separate action.

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**COMMUNICATIONS TO THE BOARD**

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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).

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**CONSENT CALENDAR**

**Resolution No. 2020-6**

**Items 3-9**

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

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

4.     BOARD MEETING MINUTES

       Recommendation: That the minutes of the February 10, 2020 Regular Board meeting be approved as presented.

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**CONSENT CALENDAR**

**Resolution No. 2020-6**

**Items 3-9**

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5. 2020 LEGISLATIVE AND REGULATORY UPDATE

Recommendation: That the Board adopt a “support” position on AB 2182 (Rubio), AB 2560 (Quirk) and SB 1099 (Dodd); a “support if amended” position on AB 352 (E. Garcia), AB 1298 (Mullin), AB 2095 (Cooper), SB 45 (Allen), and on the “Safe Drinking Water, Wildfire Prevention, and Natural Resources Protection Bond Act of 2020” Budget Trailer Bill; an “oppose unless amended” position on AB 1484 (Grayson), AB 3147 (Gabriel), AB 3148 (Chiu); and a “watch” position on AB 1924 (Grayson), AB 2943 (Ting), AB 3144 (Grayson), AB 3145 (Grayson), AB 3146 (Grayson), and AB 3149 (Gloria).

6. JANUARY 2020 TREASURY REPORT

Recommendation: That the Board receive and file the Treasurer’s Investment Summary Report, the Summary of Fixed and Variable Rate Debt, and Disclosure Report of Reimbursements to Board members and staff, approve the January 2020 Summary of Payroll ACH payments in the total amount of \$3,120,220; and approve the January 2020 accounts payable Disbursement Summary of warrants 405005 through 405945, Workers’ Compensation distributions, wire transfers, payroll withholding distributions and voided checks in the total amount of \$28,866,405.

7. SAND CANYON PROFESSIONAL CENTER – PHASE II CONSTRUCTION UPDATE AND LISTING AGREEMENT EXTENSION

Recommendation: That the Board approve a new listing agreement for the lease of the Sand Canyon Professional Office Center Phase II with the brokerage team of Cushman & Wakefield and Colliers International under previously agreed-upon commission terms and expiring on August 31, 2020.

8. AMENDMENT NO. 9 TO THE SANTIAGO AQUEDUCT COMMISSION JOINT POWERS AGREEMENT

Recommendation: That the Board approve Amendment No. 9 to the Santiago Aqueduct Commission Joint Powers Agreement, subject to non-substantive changes.

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**CONSENT CALENDAR**

**Resolution No. 2020-6**

**Items 3-9**

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9. FINAL INITIAL STUDY / MITIGATED NEGATIVE DECLARATION FOR THE ZONE A TO RATTLESNAKE RESERVOIR PUMP STATION PROJECT

Recommendation: That the Board find 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 Zone A to Rattlesnake Reservoir 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; adopt the proposed Final Mitigated Negative Declaration for the Zone A to Rattlesnake Reservoir Pump Station Project and the associated mitigation monitoring and reporting program; approve the Zone A to Rattlesnake Reservoir Pump Station Project; and authorize staff to post and file a Notice of Determination.

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**ACTION CALENDAR**

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10. ON-CALL ENVIRONMENTAL CONSULTANT SELECTIONS

Recommendation: That the Board authorize the General Manager to execute Professional Service Agreements with Environmental Science Associates (ESA), LSA, Dudek and Psomas to provide on-call CEQA/NEPA services for the next four years for not-to-exceed amounts of \$400,000 each, and with Harmsworth Associates, Psomas and ESA to provide on-call monitoring and permitting services for the next four years for not-to-exceed amounts of \$400,000 each.

11. PROPOSED IRWD POLICY PRINCIPLES REGARDING METROPOLITAN WATER DISTRICT'S INTEGRATED WATER RESOURCES PLAN AND LOCAL RESOURCES PROGRAM

Recommendation: That the Board adopt the updated IRWD policy principles regarding Metropolitan Water District's Integrated Water Resources Plan and Local Resources Program.

12. REVISED IRWD WATER RESOURCES FUNDING POLICY PRINCIPLES

Recommendation: That the Board adopt the updated IRWD policy principles regarding California Water Resources Funding.

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## **OTHER BUSINESS**

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

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

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

March 9, 2020  
Prepared and  
submitted by: K. Swan  
Approved by: Paul A. Cook



CONSENT CALENDAR

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

SUMMARY:

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

Steven LaMar

February 6                      Orange County Business Council Annual Dinner

Mary Aileen Matheis

March 10                      IRWD-El Toro Water District Issues Discussion  
March 11                      Water Agencies of the Inland Empire and Orange County 2020 State  
   Legislative Reception, Sacramento  
March 12                      ACWA Legislative Symposium, Sacramento  
March 17                      Monthly Discussion of District Activities with the General Manager

Douglas Reinhart

March 10                      IRWD-El Toro Water District Issues Discussion

Peer Swan

February 5                      West Basin Water District MWD Representatives Caucus Special Meeting

John Withers

February 25                      City of Irvine 2020 State of the City by Mayor Shea  
February 26                      IRWD Issues Update with the General Manager  
March 12                      49<sup>th</sup> Annual Irvine Police Department Awards

RECOMMENDATION:

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

LIST OF EXHIBITS:

None.

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March 9, 2020  
Prepared and  
submitted by: L. Bonkowski  
Approved by: Paul A. Cook



CONSENT CALENDAR

BOARD MEETING MINUTES

SUMMARY:

Provided are the minutes of the February 10, 2020 Regular Board meeting for approval.

FISCAL IMPACTS:

None.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

Not applicable.

RECOMMENDATION:

THAT THE MINUTES OF THE FEBRUARY 10, 2020 REGULAR BOARD MEETING BE APPROVED AS PRESENTED.

LIST OF EXHIBITS:

Exhibit "A" – February 10, 2020 Minutes

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## EXHIBIT "A"

### MINUTES OF REGULAR MEETING – February 10, 2020

The regular meeting of the Board of Directors of the Irvine Ranch Water District (IRWD) was called to order at 5:00 p.m. by President Matheis on February 10, 2020 in the District office, 15600 Sand Canyon Avenue, Irvine, California.

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

Directors Absent: None.

Also Present: General Manager Cook, Executive Director of Technical Services Burton, Executive Director of Water Policy Weghorst, Executive Director of Finance and Administration Clary, Executive Director of Operations Chambers, General Counsel Collins, Director of Water Quality and Regulatory Compliance Colston, Director of Recycling Operations Zepeda, Director of Water Operations Roberts, Government Relations Officer/Deputy General Counsel Compton, Secretary Bonkowski, Assistant Secretary Swan, Mr. Bruce Newell, and members of staff and the public.

WRITTEN AND ORAL COMMUNICATIONS: None.

ITEMS TOO LATE TO BE AGENDIZED: None.

### CONSENT CALENDAR

On MOTION by Reinhart, seconded and unanimously carried, CONSENT CALENDAR ITEMS 3 THROUGH 6 WERE APPROVED AS FOLLOWS:

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

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

4. BOARD MEETING MINUTES

Recommendation: That the minutes of the January 27, 2020 Regular Board meeting be approved as presented.

5. IRVINE LAKE PIPELINE NORTH CONVERSION SANTIAGO HILLS ZONE C+ RESERVOIR FINAL ACCEPTANCE

Recommendation: That the Board authorize the General Manager to accept construction of the Irvine Lake Pipeline North Conversion Santiago Hills Zone C+ Reservoir, Project 05407, authorize the General Manager to file a Notice of Completion; and authorize the release of retention 35 days after filing of the Notice of Completion.

## CONSENT CALENDAR (CONTINUED)

### 6. ADDENDUM NO. 4 TO THE BAKER WATER TREATMENT PLANT PROJECT FINAL ENVIRONMENTAL IMPACT REPORT

Recommendation: That the Board adopt the proposed Addendum No. 4 to the Baker Water Treatment Plant Project Final Environmental Impact Report, including the determinations set forth in Addendum No. 4, and authorize staff to post and file a Notice of Determination.

## ACTION CALENDAR

### MICHELSON WATER RECYCLING PLANT UNIT SUBSTATION T1 REMOVAL CONSTRUCTION AWARD

General Manager Cook reported that the Unit Substation T1 at the Michelson Water Recycling Plant (MWRP) has settled over the past 20 years and is now leaning in excess of the manufacturer's specifications. This project will remove Unit Substation T1 and reroute power to the existing loads served by T1 to other existing unit substations at MWRP. The project includes construction of a new 480V switchboard, 5kV switch, and 5kV duct bank.

A bid opening was held on January 23, 2020 with bids received from Johnson-Peltier, Leed Electric, and Southern Contracting Company. Southern Contracting Company is the apparent low bidder with a bid amount of \$2,204,000. On MOTION by Reinhart, seconded by Withers and unanimously carried, THE BOARD AUTHORIZED A BUDGET INCREASE FOR PROJECT 10535 IN THE AMOUNT OF \$2,326,700, FROM \$543,000 TO \$2,869,700, AND AUTHORIZED THE GENERAL MANAGER TO EXECUTE A CONSTRUCTION CONTRACT WITH SOUTHERN CONTRACTING COMPANY IN THE AMOUNT OF \$2,204,000 FOR THE MWRP UNIT SUBSTATION T1 REMOVAL, PROJECT 10535.

### BAKER WATER TREATMENT PLANT SOLAR PHOTOVOLTAIC SYSTEM POWER PURCHASE AGREEMENT AMENDMENT AND CONSTRUCTION REIMBURSEMENT

Using a PowerPoint presentation, Principle Engineer Mori reported that in September 2018, IRWD entered into a Power Purchase Agreement (PPA) with Solar Star to design, construct, operate, and maintain a solar PV system to further reduce the overall cost of electricity at the Baker Plant. In December 2018, a 1.25 MW battery energy storage system was constructed and placed into service at the site. Both of these projects will supplement electricity provided by Southern California Edison to reduce IRWD's overall cost of electricity.

Mr. Mori said that during final development of the project, Solar Star requested that IRWD execute an amendment to the PPA to implement clarifying, ministerial changes to enhance the overall clarity of the original PPA. The changes are minor and generally limited to enhancements to definitions, modifications to terminology, and correction of typographical errors in the original PPA. The amendment does not modify any material terms of the original PPA or modify any material obligations of either IRWD or Solar Star. The amendment also includes as an attachment an Estoppel Certificate that Solar Star may request IRWD to execute in accordance with the requirements defined in the original PPA. He said that both IRWD and Solar Star agree that the incorporation of these clarifying changes, along with the inclusion of the

Estoppel Certificate, will improve the overall clarity of the PPA and help to avoid confusion between both parties over the 25-year period of the PPA.

Mr. Mori said that in accordance with the PPA, Solar Star is responsible for the design, construction, operation, and maintenance of the solar PV system over a 25-year period. In turn, IRWD is responsible for purchasing electricity produced by the PV system over that same period at a fixed cost \$0.075/kWh (kilowatt-hour). The PPA defined a comprehensive scope of work for the design and construction of the facility, which included a requirement to evaluate the structural characteristics and additional loading capabilities of the two buried prestressed concrete reservoirs that the PV system was to be founded upon. Mr. Mori said that the structural evaluation identified that approximately 2,300 cubic yards of soil needed to be removed from the reservoirs to offset the weight of the additional loading imposed by the proposed PV system. The scope of work in the PPA explicitly excluded work associated with soil removal above the two reservoirs, and as such, the cost for removing the soil was not included in the original contract price.

Mr. Mori said that the PPA includes a provision that defines various mechanisms for funding additional items beyond the original scope of work. Those mechanisms include paying the incremental cost as a lump sum reimbursement, paying the incremental cost over the 25-year term of the PPA through a calculated increase in the kWh electricity rate, or proposing a negotiated solution. The PPA also allows for the incremental costs to be rejected, which would lead to termination of the PPA. He said that staff elected to implement the lump sum reimbursement option.

Following discussion of the Estoppel Certificate as well as the open space area on the reservoir, on MOTION by Reinhart, seconded by LaMar and unanimously carried, THE BOARD AUTHORIZED THE GENERAL MANAGER TO EXECUTE THE FIRST AMENDMENT TO THE POWER PURCHASE AGREEMENT WITH SOLAR STAR IRWD BAKER, LLC FOR THE PHOTOVOLTAIC SYSTEM AT THE BAKER WATER TREATMENT PLANT SUBJECT TO NON-SUBSTANTIVE CHANGES; AUTHORIZED THE GENERAL MANAGER TO EXECUTE THE ESTOPPEL CERTIFICATE TO THE FIRST AMENDMENT TO THE POWER PURCHASE AGREEMENT, AND ANY FUTURE ESTOPPEL CERTIFICATES SUBJECT TO REVIEW BY GENERAL COUNSEL; AND AUTHORIZED THE GENERAL MANAGER TO ISSUE A CONSTRUCTION REIMBURSEMENT TO SOLAR STAR IRWD BAKER, LLC IN THE AMOUNT OF \$217,247.08 FOR ADDITIONAL SOIL REMOVAL FOR PROJECT 10559.

#### OTHER BUSINESS:

#### GENERAL MANAGER'S REPORT

General Manager Cook reported on this afternoon's meeting relative to Irvine Lake level operations with Board members Swan and Reinhart noting that the Serrano Water District will be going to its Board soon and anticipates that this item will be submitted in early March to the Division of Safety of Dams for approval.

Mr. Cook said that he held a meeting last week with Santa Margarita Water District relative to IRWD's assistance with sewer cleaning for one or two years. He said that SMWD will be preparing a scope of work, and that the District will determine a price for said service.

Mr. Cook said that over the weekend Mr. Jim Carlton, a reporter from the Wall Street Journal, contacted the District relative to water efficiency issues, and that today Ms. Fiona Sanchez, Ms. Beth Beeman and he met with him for an hour to discuss the District's program.

### DIRECTORS' COMMENTS

Director LaMar reported on his attendance at an ACWA Federal Affairs Committee meeting, an ACWA Board of Directors' meeting and workshop, an ACWA energy meeting, a plenary meeting, and an OCBC annual dinner with Directors Withers and Swan.

Director Withers reported on his attendance at the VerdeXchange conference in Los Angeles where he participated on two panels. He also said he received a compliment from a member of the development community saying that the IRWD employees are a class above other water agencies. Director LaMar said that he also recently received a compliment from KB Homes on IRWD's inspection staff.

Director Swan reported that he attended a governmental meeting in Sacramento relative to the PPIC, MWDOC Board and Committee meetings, Newport Chamber of Commerce meetings, a WACO monthly meeting, and an OCBC annual dinner, and that he will be attending a water policy dinner next week.

Director Reinhart reported on his attendance at a South Orange County Water Agency meeting, an OCWD Board meeting, a SOCWA Board meeting, and a WACO monthly meeting.

Director Matheis reported on her attendance at an ISDOC Quarterly meeting and an ISDOC Executive Committee meeting. She further asked that the General Manager comment on the passing of former LAWD Board member Mr. Jim Reed. General Manager Cook reported that Mr. Reed was a consistent advocate for IRWD and was a true asset for the District. He was very proud of the District, and we will miss him. Director Reinhart said that Mr. Reed was very active with the City of Lake Forest's Chamber of Commerce and attended City of Lake Forest Council meetings, and was a great representative at WACO meetings. President Matheis asked that tonight's comments be reflected in a letter to his family and that the meeting be adjourned in his memory.

### UPDATES FROM DISTRICT LIAISON

IRWD's consultant, Mr. Bruce Newell, said that all was fine in Santiago Canyon area and was getting ready for spring.

CLOSED SESSION

Ms. Collins said that the following Closed Sessions would be held this evening.

1. CLOSED SESSION CONFERENCE WITH REAL PROPERTY NEGOTIATORS - Pursuant to Government Code Section 54956.8:

*Property:* Capacity Rights in the El Toro Road Lift Station (20915 El Toro Road, Lake Forest, CA 92630) and Associated Pipelines

*Agency Negotiator:* Paul Cook, General Manager, and Kevin Burton, Executive Director of Technical Services

*Negotiating Parties:* Trabuco Canyon Water District

*Under negotiation:* Price and Terms of Payment

2. CLOSED SESSION CONFERENCE WITH LEGAL COUNSEL—EXISTING LITIGATION - Pursuant to Government Code Section 54956.9(d)(1): *SCADA and Control Systems, Inc. v. Delta Systems Engineering, LLC, et al.*, Case No. 30-2018-01039707-CU-BC-CJC

3. CLOSED SESSION CONFERENCE WITH LEGAL COUNSEL—EXISTING LITIGATION - Pursuant to Government Code Section 54956.9(d)(1): *Filanc-Balfour Beatty, JV v. IRWD*, Case No. 30-2019-01048770-CU-BC-CXC

OPEN SESSION

Following the Closed Session, the meeting was reconvened with Directors LaMar, Matheis, Withers, Swan, and Reinhart present. Legal Counsel Collins said that there was no action to be reported.

ADJOURNMENT:

There being no further business, President Matheis adjourned the meeting in memory of Mr. James D. Reed, former Los Alisos Water District Board member and IRWD's consultant for over 15 years.

APPROVED and SIGNED this 9th of March 2020.

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President, IRVINE RANCH WATER DISTRICT

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Secretary IRVINE RANCH WATER DISTRICT

APPROVED AS TO FORM:

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Claire Hervey Collins, General Counsel  
Hanson Bridgett LLP

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March 9, 2020  
Prepared and  
submitted by: C. Compton  
Approved by: Paul A. Cook



## CONSENT CALENDAR

### 2020 LEGISLATIVE AND REGULATORY UPDATE

#### SUMMARY:

This report provides an update on the 2019-2020 legislative session, regulatory issues, and IRWD priorities. As legislation and regulations develop, staff will provide updates and recommendations to the Water Resources Policy and Communications Committee and the Board, as appropriate.

Staff recommends that the Board consider the following actions/positions:

- *AB 352 (E. Garcia) – Wildfire Prevention, Safe Drinking Water, Drought Preparation, and Flood Protection Bond Act of 2020: “SUPPORT IF AMENDED”;*
- *AB 1298 (Mullin) – Climate Resiliency, Fire Risk Reduction, Recycling, Groundwater and Drinking Water Supply, Clean Beaches, and Jobs Infrastructure Bond Act of 2020: “SUPPORT IF AMENDED”;*
- *AB 1484 (Grayson) – Mitigation Fee Act: Housing Development: “OPPOSE UNLESS AMENDED”;*
- *AB 1924 (Grayson) – Housing Development Fees: “WATCH”;*
- *AB 2095 (Cooper) – Water Theft: “SUPPORT IF AMENDED”;*
- *AB 2182 (Rubio) – Emergency Backup Generators: Water and Wastewater Facilities Exemption: “SUPPORT”;*
- *AB 2560 (Quirk) – Water Quality: Notification and Response Level: “SUPPORT”;*
- *AB 2943 (Ting) – Local Agencies: Surplus Land: “WATCH”;*
- *AB 3144 (Grayson) – Housing Cost Reduction Incentive Program: “WATCH”;*
- *AB 3145 (Grayson) – Housing Development Fees and Exactions Cap: “WATCH”;*
- *AB 3146 (Bonta / Grayson) – Housing Data: “WATCH”;*
- *AB 3147 (Gabriel) – Fees for Development Projects: “OPPOSE UNLESS AMENDED”;*
- *AB 3148 (Chiu) – Affordable housing Fee Reductions: “OPPOSE UNLESS AMENDED”;*
- *AB 3149 (Gloria) – Mitigation Fee Act: “WATCH”;*
- *“Safe Drinking Water, Wildfire Prevention, and Natural Resources Protection Bond Act of 2020” Budget Trailer Bill: “SUPPORT IF AMENDED”;*
- *SB 45 (Allen) – Wildfire Prevention, Safe Drinking Water, Drought Preparation, and Flood Protection Bond Act of 2020: “SUPPORT IF AMENDED”;* and
- *SB 1099 (Dodd) – Emergency Backup Generators: Critical Facilities: “SUPPORT”.*

**BACKGROUND:**

Approximately 4,864 bills and constitutional amendments have been introduced during the 2019-2020 state legislative session. On the Assembly side, 3,384 bills and constitutional amendments were introduced while the Senate introduced 1,480 bills and constitutional amendments.

The 2020 bill introduction deadline was February 20, 2020. While many of the bills introduced this year contain spot or intent language, a number of bills include substantive proposals. With the introduction deadline having passed, the 2020 legislative year will come into full swing with policy committees ramping up and legislators working to amend their legislation so that it will be heard by the April 24 and May 1 policy committee deadlines.

A wide variety of bills have been introduced on issues of interest to IRWD including bills related to water conservation, water quality, and Public Safety Power Shutoffs. There are also a number of bills related to climate change, the Public Records Act, and public contracting. Many of these bills are expected to have significant amendments prior to their first policy committee hearings. As such, staff will monitor proposals and bring updates and recommendations to the Water Resources Policy and Communications Committee and the Board, as appropriate.

A copy of the 2020 Legislative Matrix is attached as Exhibit “A”. Links to the bills discussed below are included within each discussion, unless a separate exhibit is noted.

**2020 State Legislative Update:**

*Climate Resilience Bond:*

As became apparent at the end of the 2019 legislative year, there is political will to pass and place on the November 2020 ballot a climate resilience bond. The policy discussions of early 2020 have been focused on the programs and level of funding contained in the bond. The early discussions on the bond were fueled by the climate resilience bond proposal contained in the Governor proposed Fiscal Year 2020-21 budget. In that document, the Governor proposed a bond with the following allocations:

*Governor’s Climate Resilience Bond Proposal*

<b>Investment Category</b>	<b>Program</b>	<b>Amount (in millions)</b>
Drinking Water, Flood, Drought	Regional and Inter-regional Water Resilience	\$1,000
	Sustainable Groundwater Management	\$395
	Safe Drinking Water	\$360
	Flood-Urban/USACE Projects	\$340
	Flood-Systemwide Multi-benefit	\$270
	Salton Sea	\$220
	Environmental Farming Incentive Program	\$200
	Enhanced Stream Flows and Fish Passage	\$140
<i>Subtotal</i>		<b>\$2,925</b>



*Governor’s Climate Resilience Bond Proposal (continued)*

<b>Investment Category</b>	<b>Program</b>	<b>Amount (in millions)</b>
Wildfire	Hardening of Critical Community Infrastructure	\$500
	Forest Health	\$250
<i>Subtotal</i>		<i>\$750</i>
Sea Level Rise	Coastal Wetland Restoration	\$320
	Nature-Based Solutions to Build Resilience	\$130
	Demonstration Projects to Protect Critical Infrastructure	\$50
<i>Subtotal</i>		<i>\$50</i>
Extreme Heat	Urban Greening and Forestry	\$200
	Cool Surface Materials	\$125
<i>Subtotal</i>		<i>\$325</i>
Community Resilience	Community Resilience Planning	\$25
	Community Resilience Centers	\$225
<i>Subtotal</i>		<i>\$250</i>
<b>TOTAL</b>		<b>\$4,750</b>

The Governor’s proposed budget stated that the purpose of the climate resilience bond is to “support investments over the next five years to reduce specific climate risks across California through long-term investment in natural and build infrastructure, especially in the state’s most climate-vulnerable communities. The bond aligns with the Administration’s draft Water Resilience Portfolio” In addition to the information released in the Governor’s proposed budget, the Governor released the “[Safe Drinking Water, Wildfire Prevention, and Natural Resources Protection Bond Act of 2020](#)” Budget Trailer Bill, which in legislative language proposes a bond consistent with the summary provided above.

In addition to the Governor’s proposal, there are currently three other resilience bond proposals before the Legislature. Those proposals are [AB 352](#) (E. Garcia, D-Coachella), [AB 1298](#) (Mullin, D-San Mateo), and [SB 45](#) (Allen, D-Redondo Beach). AB 352 proposes a \$3.92 billion bond, and SB 45 proposes a \$5.51 billion bond. AB 1298 proposes a bond, but has left the dollar amounts blank. Currently, all three proposals contain some water funding.

The Administration and the Legislature have a tremendous amount of discussion left before agreement is reached on a climate resilience bond. Staff has engaged and will continue to engage with IRWD’s associations and industry stakeholders interested in influencing the programmatic water funding and levels of water funding included in a resilience bond. Staff recommends that the Board adopt a “support if amended” position on the four bond proposals to enable the District to best engage in the legislative policy discussions related to the bond. In seeking amendments, the District would advocate for changes to the bond proposal consistent with IRWD’s Water Infrastructure Financing Policy Principles.

*Legislation Related to De-energization Events:*

To reduce the risk of catastrophic wildfire, electric utilities have begun to institute Public Safety Power Shutoffs (PSPS). A PSPS event is a de-energization event in which the power in high-risk areas is turned off to reduce the likelihood of a wildfire starting from downed power lines and related equipment. IRWD, like many other water and sewer providers, has been affected in the past by PSPS events.

To prepare for a loss of electricity, IRWD has set up generators at all of its critical facilities to ensure that IRWD has the power to keep water and sewer systems operating. While IRWD is prepared to continue operating during these PSPS and other de-energization events, the District's backup generators are regulated by various air quality regulations which place limits on the run-times of backup generators and the testing that can be performed on them. There are two bills that would be beneficial to IRWD with regard to PSPS events:

- *AB 2182 (Rubio, D-West Covina) – Emergency Backup Generators: Water and Wastewater Facilities Exemption:* AB 2182 would exempt the operation of a backup generator at a critical facility during a de-energization event from any local, regional, or state regulation limiting the runtime of the generator. The bill would also allow generators to be tested and maintained consistent with the National Fire Protection Association's standards. The bill is sponsored by the Association of California Water Agencies. Staff recommends that the Board adopt a "support" position on AB 2182, and
- *SB 1099 (Dodd, D-Santa Rosa) – Emergency Backup Generators: Critical Facilities:* SB 1099 would require air districts to adopt a rule to allow critical facilities with a permitted emergency backup generator to use that generator during a de-energization event or other loss of power. It would also permit those generators to be tested and maintained consistent with the National Fire Protection Association's standards. The bill includes water and wastewater facilities in the definition of critical facilities and is co-sponsored by the California Municipal Utilities Association (CMUA) and the Las Virgenes Municipal Water District. Staff recommends the Board adopt a "support" position on SB 1099.

*Legislation Related to Fees on Residential Housing Development:*

One of the prominent topics of discussion during the 2019 legislative year was the lack of affordable housing in California. At the end of the legislative year, the discussion on housing affordability turned to the fees assessed on new housing development. The discussion on fees was spurred by a report issued by the University of California, Berkeley's Turner Center—the "[Residential Impact Fees In California: Current Practices and Policy Considerations to Improve Implementation of Fees Governed by the Mitigation Fee Act,](#)" (the Turner Study).

In response to Turner Study's release, Assemblymember Timothy Grayson (D-Concord) amended [AB 1484](#) to propose a number of changes to the laws governing fees charged to new housing developments, including connection fees. Staff engaged with IRWD's associations and industry partners to seek the removal of connections fees from the scope of AB 1484; however, the legislative year ended before Assemblymember Grayson could work on AB 1484 further.

Over the legislative recess, Assemblymember Grayson held a series of roundtables throughout the state to gather information on the fees charged on new residential housing developments.

On February 24, 2020, Assemblymember Grayson in conjunction with Assemblymembers David Chiu (D-San Francisco), Rob Bonta (D-Oakland), Todd Gloria (D-San Diego), and Jesse Gabriel (D-San Fernando Valley) held a press conference announcing a package of eight bills meant to address development fees on housing developments. In addition to AB 1484, the package includes:

- *AB 1924 (Grayson) – Housing Development Fees:* [AB 1924](#) would require that a fee imposed on a housing development project be proportionate to the square footage of the proposed unit or units;
- *AB 3144 (Grayson) – Housing Cost Reduction Incentive Program:* [AB 3144](#) would provide state funding to reimburse local governments that waive impact fees on affordable projects;
- *AB 3145 (Grayson) – Housing Development Fees and Exactions Cap:* [AB 3145](#) would establish a development fee cap on housing development fees based on the median home price in a city or county. The bill would prohibit a city or county from imposing a fee above 12 percent of the city’s or county’s median home price unless the Department of Housing and Community Development approves the fee;
- *AB 3146 (Bonta/Grayson) – Housing Data:* [AB 3146](#) would require cities and counties to report a wide variety of housing data to the Department of Housing and Community Development, including the number of new housing units that have been issued a completed entitlement, a building permit, or a certificate of occupancy;
- *AB 3147 (Gabriel) – Fees for Development Projects:* [AB 3147](#) would repeal the 120-day statute of limitations on challenging new fees or service charges. The stated goal of the bill is to permit impacts fees and connections fees to be paid under protest, if the developer believes the fee to be unreasonably high;
- *AB 3148 (Chiu) – Affordable housing Fee Reductions:* [AB 3148](#) would require a city, county, special district or other local agency, except a school district, to reduce the fees imposed on affordable housing units by 25-75 percent; and
- *AB 3149 (Gloria) – Mitigation Fee Act:* [AB 3149](#) is intended to change the way that local agencies notify interested parties prior to levying a new fee or service charge, or increasing an existing fee.

In addition to this package of bills, [AB 2722](#), authored by Assemblymember McCarty (D-Sacramento), would prohibit a noncompliant local agency that imposes any fees or charges on a qualified development shall not require the payment of those fees or charges until 20 years from the date of the final inspection, or the date the certificate of occupancy is issued, whichever occurs first. The bill defines a “noncompliant local agency” as a local agency that did not meet its regional housing needs during the most recent complete regional housing needs assessment cycle and for the current regional housing needs assessment cycle.

Staff recommends that the Board adopt an “oppose unless amended” position on AB 1484 (Greyson), AB 3147 (Gabriel), and AB 3148 (Chiu). The District would seek amendments to these bills to eliminate or mitigate the impact they may have on the District’s ability to charge cost-based connection fees. Staff also recommends the Board adopt a “watch” position on AB 1924 (Grayson), AB 3144 (Grayson), AB 3145 (Grayson), AB 3146 (Bonta/Grayson), AB 3149 (Gloria), and AB 2722 (McCarty), as they currently do not impact the District’s ability to set connection fees.

Other 2020 State Legislation of Interest to IRWD:

There are a number of other bills of interest to the District, including:

- *AB 2095 (Cooper) – Water Theft:* AB 2095 would permit a local agency to make any violation of a water theft ordinance subject to an administrative fine or penalty of between \$1,000 and \$3,000. As currently drafted, the bill would not grant the District the ability to take advantage of the proposed administrative fines or penalties. Staff recommends that the Board adopt a “support if amended” position on AB 2095, and seek clarifying amendments that would provide the District the ability to address water theft via administrative fines or penalties;
- *AB 2560 (Quirk) – Water Quality: Notification and Response Level:* The CMUA and the Orange County Water District have jointly co-sponsored AB 2560. The bill codifies the process the State Water Resources Control Board undertakes when it sets notification (NL) and response levels (RL). The purpose of the bill is to ensure there is sufficient public notice, comment periods and peer review procedures for NLs and RLs. Staff recommends that the Board adopt a “support” position on AB 2560; and
- *AB 2943 (Ting) – Local Agencies: Surplus Land:* Again, this year, Assemblymember Phil Ting has introduced a bill related to the Surplus Land Act — AB 2943. As introduced, AB 2943 proposes to add a provision to the Surplus Land Act which was negotiated as part of the amendments to AB 1486, but at the end of session was accidentally amended out of the bill. Staff recommends that the Board adopt a “watch” position on AB 2943. If the bill is amended in a manner which impacts the District’s investments, the District would move to an “oppose unless amended” position on the bill.

Staff will discuss these bills and SB 1386 (*Moorlach*) with the Committee.

2020 State Regulatory Update:

In addition to the legislation discussed above, the following is a list of some of the other state regulations and agency reports staff is monitoring, tracking or planning to engage in over the next three to 12 months. As the next drafts of the regulations or report are released for public review and comment, staff will engage, as appropriate. Staff will also provide an oral update to the Committee on any new developments related to these regulations.

The pending regulations and reports actively being tracked include the:

- Building Standards Commission’s “2019 California Plumbing Code;”
- Department of Water Resources (DWR) and the State Board’s implementation of the “Making Water Conservation a California Way of Life” legislation;
- DWR’s “The Open and Transparent Water Data Act (AB 1755, Dodd) Implementation Plan;”
- Ocean Protection Council’s 2019-2024 Strategic Plan;
- State Board Electronic Annual Report;
- State Board’s AB 401 Implementation/Low Income Rate Assistance Report and the Office of Environmental Health Hazard Assessment’s “A Framework and Tool for Evaluating California’s Progress in Achieving the Human Right to Water;”
- State Board’s development of a “Cross Connection Policy Handbook;”
- State Board’s proposed “Environmental Laboratory Accreditation Program Regulations;”
- State Board’s proposed “Mercury TMDL and Statewide Mercury Control Program for Reservoirs” regulations;
- State Board’s proposed regulations on “Prohibiting Wasteful Water Use Practices;”
- State Board’s Safe and Affordable Drinking Water Fund Implementation;
- State Board’s Implementation of the “State Wetland Definition and Procedures for Discharges of Dredged or Fill Material to Waters of the State” regulations;
- State Board’s “Water Loss Performance Standards Regulations;”
- State Board’s Water Rights Enforcement Policy; and
- State Board’s “Water Quality Control Plan for Inland Surface Waters, Enclosed Bays, and Estuaries of California” and draft “Toxicity Provisions.”

2020 Federal Legislative Update:

IRWD’s federal advocacy efforts in 2020 will focus largely on seeking federal funding for the Kern Fan Groundwater Storage Project and advocating for increased funding authorization for the federal Water Storage Program. Staff will discuss the approach and strategy staff will be taking to best position the Kern Fan Groundwater Storage Project for federal funding this year. Staff will provide an update on these efforts.

2020 Federal Regulatory Update:

Earlier this month, the California Division of Drinking Water (DDW) released new advisory Response Levels for perfluorooctanesulfonic acid (PFOS) and perfluorooctanoic acid (PFOA) in drinking water. The levels, 10 parts per trillion (ppt) and 40 ppt respectively, are among the lowest in the nation. Following DDW’s announcement, the United States Environmental

Protection Agency announced that it will develop regulations for PFOA and PFOS. Staff will evaluate the proposed regulation once it is released.

Staff will provide an update of the federal effort to regulate PFOA and PFOS and will provide an update on the proposed revisions to the Federal Lead and Copper Rule.

FISCAL IMPACTS:

Not applicable.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

This item was reviewed by the Water Resources Policy and Communications Committee on March 5, 2020.

RECOMMENDATION:

THAT THE BOARD ADOPT A “SUPPORT” POSITION ON AB 2182 (RUBIO), AB 2560 (QUIRK) AND SB 1099 (DODD); A “SUPPORT IF AMENDED” POSITION ON AB 352 (E. GARCIA), AB 1298 (MULLIN), AB 2095 (COOPER), SB 45 (ALLEN), AND ON THE “SAFE DRINKING WATER, WILDFIRE PREVENTION, AND NATURAL RESOURCES PROTECTION BOND ACT OF 2020” BUDGET TRAILER BILL; AN “OPPOSE UNLESS AMENDED” POSITION ON AB 1484 (GRAYSON), AB 3147 (GABRIEL), AB 3148 (CHIU); AND A “WATCH” POSITION ON AB 1924 (GRAYSON), AB 2943 (TING), AB 3144 (GRAYSON), AB 3145 (GRAYSON), AB 3146 (GRAYSON), AND AB 3149 (GLORIA).

LIST OF EXHIBITS:

Exhibit “A” – IRWD Legislative Matrix

**EXHIBIT “A”**  
**IRWD 2020 LEGISLATIVE MATRIX**  
**Updated 02/27/2020**

<b>Bill No. Author</b>	<b>Title</b>	<b>IRWD Position</b>	<b>Summary/Effects</b>	<b>Status</b>
<b>AB 69</b> Ting (D)	Land Use: Accessory Dwelling Units	WATCH	Requires the department to propose small home building standards governing accessory dwelling units smaller than 800 square feet, junior accessory dwelling units, and detached dwelling units smaller than 800 square feet, as specified, and to submit the small home building standards to the California Building Standards Commission for adoption on or before a specified date.	09/05/2019 - In SENATE. To Special Consent Calendar.;09/05/2019 - In SENATE. From Special Consent Calendar. To third reading.;09/05/2019 - In SENATE. From third reading. To Inactive File.
<b>AB 100</b> Budget Cmt	Drinking Water	WATCH	Establishes the Safe and Affordable Drinking Water Fund in the State Treasury to help water systems provide an adequate and affordable supply of safe drinking water in both the near and the long terms. Authorizes the state board to provide for the deposit into the fund of federal contributions, voluntary contributions, gifts, grants, and bequests and would continuously appropriate the moneys in the fund to the state board for grants, loans, contracts, or services to assist eligible recipients.	09/13/2019 - Re-referred to SENATE Committee on BUDGET AND FISCAL REVIEW.
<b>AB 134</b> Bloom (D)	Safe Drinking Water Restoration	WATCH	Requires each regional engineer to arrange for a prescribed comprehensive assessment of each failed water system in the region of the drinking water regional office to be completed. Requires the board, upon adoption of an assessment of funding need, to convey to each regional engineer a list of at-risk water systems in that region and additional information. Requires the board by a specified date of each year to review the assessment of funding need and to prioritize the public water systems.	06/13/2019 - To SENATE Committees on ENVIRONMENTAL QUALITY and NATURAL RESOURCES AND WATER.
<b>AB 196</b> Gonzalez (D)	Paid Family Leave		Revises the formula for determining benefits available pursuant to the family temporary disability insurance program for periods of disability by redefining the weekly benefit amount.	06/06/2019 - To SENATE Committee on LABOR, PUBLIC EMPLOYMENT AND RETIREMENT.
<b>AB 202</b> Mathis (R)	Endangered Species: Conservation: Safe Harbor Program		Extends the operation of the California State Safe Harbor Agreement Program Act indefinitely, which encourages landowners to manage their lands voluntarily, by means of state	04/24/2019 - To SENATE Committee on NATURAL RESOURCES AND WATER.

**IRWD 2020 LEGISLATIVE MATRIX**  
**Updated 02/27/2020**

Bill No. Author	Title	IRWD Position	Summary/Effects	Status
			safe harbor agreements approved by the Department of Fish and Wildlife, to benefit endangered, threatened, or candidate species.	
<b><u>AB 254</u></b> Quirk-Silva (D)	Warewashing Machines: Water Reuse		Authorizes water from a warewashing machine at a retail food business to be reused on the same warewashing machine, for prerinse purposes only, if an attendant is onsite to control the reuse of the water for prerinse purposes and a written disclosure notice is posted.	07/09/2019 - In SENATE Committee on HEALTH: Not heard.
<b><u>AB 292</u></b> Quirk (D)	Recycled Water: Raw Water and Groundwater Augmentation	SUPPORT	Eliminates the definition of direct potable reuse and instead substitutes the term groundwater augmentation for indirect potable reuse for groundwater recharge in definitions. Requires the State Water Resources Control Board to adopt uniform water recycling criteria for raw water augmentation.	08/30/2019 - In SENATE. From third reading. To Inactive File.
<b><u>AB 352</u></b> Garcia E (D)	Wildfire Prevention, Safe Drinking Water		Enacts the Wildfire Prevention, Safe Drinking Water, Drought Preparation, and Flood Protection Bond Act of 2020, which, if approved by the voters, would authorize the issuance of bonds in the amount of \$3,920,000,000 pursuant to the State General Obligation Bond Law to finance a wildlife prevention, safe drinking water, drought preparation, and flood protection program.	08/14/2019 - From SENATE Committee on ENVIRONMENTAL QUALITY with author's amendments.;08/14/2019 - In SENATE. Read second time and amended. Re-referred to Committee on ENVIRONMENTAL QUALITY.
<b><u>AB 402</u></b> Quirk (D)	Water Resources Control Board: Local Primacy Delegation		Authorizes the State Water Resources Control Board to delegate partial responsibility for the Safe Drinking Water Act's enforcement by means of a local primacy delegation agreement. Includes enforcement costs as costs covered by the annual Drinking Water Surveillance Program grant. Authorizes any local primacy agency, with the approval of the State Water Resources Control Board, to elect to participate in a funding stabilization program.	08/30/2019 - In SENATE Committee on APPROPRIATIONS: Held in committee.
<b><u>AB 418</u></b> Kalra (D)	Evidentiary Privileges: Union Agent-Worker Privilege		Establishes a privilege between a union agent and a represented employee or represented former employee to refuse to disclose any confidential communication between the employee or former employee and the union agent made while the union agent was	09/12/2019 - In SENATE. From third reading. To Inactive File.



**IRWD 2020 LEGISLATIVE MATRIX**  
**Updated 02/27/2020**

<b>Bill No. Author</b>	<b>Title</b>	<b>IRWD Position</b>	<b>Summary/Effects</b>	<b>Status</b>
			acting in the union agent's representative capacity, except as specified.	
<b><u>AB 464</u></b> Garcia (D)	State Global Warming Solutions Act of 2006		Defines district under the State Global Warming Solutions Act to mean an air pollution control or an air quality management district. Specifies that the definition of contribution of natural sources under the Act includes contribution from catastrophic wildfires.	01/27/2020 - In ASSEMBLY. Read third time. Passed ASSEMBLY. *****To SENATE.
<b><u>AB 722</u></b> Bigelow (R)	Water: Dams: Fees		Limits the total annual fee for a dam operated by certain irrigation districts to no more than 20% of the fees assessed pursuant to the schedule of fees.	06/25/2019 - In SENATE Committee on NATURAL RESOURCES AND WATER: Heard, remains in Committee.
<b><u>AB 727</u></b> Flora (R)	Dams and Reservoirs: Exclusions		Specifies that a structure owned or operated by a public entity may have the principal purpose of impounding water for agricultural use for the purposes of an exclusion from being considered a dam, provided the structure is a certain height.	05/16/2019 - To SENATE Committee on NATURAL RESOURCES AND WATER.
<b><u>AB 787</u></b> Gipson (D)	Elections: Vote Registration		Requires a county or a city and county that operates a jail facility to allow organizations to conduct in-person voter registration activities, including, but not limited to, the provision of vote-by-mail applications, in each county jail facility. Requires a county or city and county to establish policies and criteria governing the admittance of individuals from those organizations into jail facilities, including procedures for notifying an individual of the basis for denial.	08/30/2019 - In SENATE Committee on APPROPRIATIONS: Held in committee.
<b><u>AB 831</u></b> Grayson (D)	Housing and Community Development: Study: Local Fees		Requires the Department of Housing and Community Development to post the study evaluating the reasonableness of local fees charged to new developments on its internet website on or before a certain date. Requires the department, by a specified date, to issue a report to the Legislature on the progress of cities and counties in adopting the recommendations made in the study.	06/06/2019 - To SENATE Committee on RULES.

**IRWD 2020 LEGISLATIVE MATRIX**  
**Updated 02/27/2020**

<b>Bill No. Author</b>	<b>Title</b>	<b>IRWD Position</b>	<b>Summary/Effects</b>	<b>Status</b>
<b><u>AB 841</u></b> Ting (D)	Drinking Water: Contaminants		Requires the Office of Environmental Health Hazard Assessment to adopt and complete a work plan within prescribed timeframes to assess which substances in the class of perfluoroalkyl and polyfluoroalkyl substances should be identified as a potential risk to human health.	06/19/2019 - In SENATE Committee on ENVIRONMENTAL QUALITY: Not heard.
<b><u>AB 933</u></b> Petrie-Norris (D)	Ecosystem Resilience: Watershed Protection		Requires the Department of Conservation, to the extent funds are available, to establish and administer the Ecosystem Resilience Program to fund watershed coordinator positions, and other necessary costs, throughout the state for the purpose of achieving specified goals, including the goal to develop and implement watershed improvement plans, and other plans to enhance the natural functions of a watershed, aligned with multiple statewide and regional objectives across distinct bioregions.	08/30/2019 - In SENATE Committee on APPROPRIATIONS: Held in committee.
<b><u>AB 953</u></b> Ting (D)	Land Use: Accessory Dwelling Units		Deems a permit application for the creation of an accessory dwelling unit or junior accessory dwelling unit approved if the local agency has not acted upon the completed application within 60 days. Requires ministerial approval of an application for a building permit within a residential or mixed-use zone to create one accessory dwelling unit and one junior accessory dwelling unit per lot with a proposed or existing single-family dwelling if certain requirements are met.	01/30/2020 - In ASSEMBLY. Read third time. Passed ASSEMBLY. *****To SENATE.
<b><u>AB 955</u></b> Gipson (D)	Water Replenishment Districts: Water System Needs		Authorizes a water replenishment district, pursuant to an agreement with the State Water Resources Control Board, to offer to conduct a needs assessment program for water systems serving disadvantaged communities within the district. Makes a water system's participation in the program voluntary.	08/30/2019 - In SENATE Committee on APPROPRIATIONS: Held in committee.
<b><u>AB 992</u></b> Mullin (D)	Open Meetings: Local Agencies: Social Media		Provides that the Ralph M. Brown Act does not apply to the participation, as defined, in an internet-based social media platform, as defined, by a majority of the members of a legislative body, provides that a majority of the members do not discuss	01/30/2020 - In ASSEMBLY. Read third time. Passed ASSEMBLY. *****To SENATE.

**IRWD 2020 LEGISLATIVE MATRIX**  
**Updated 02/27/2020**

<b>Bill No. Author</b>	<b>Title</b>	<b>IRWD Position</b>	<b>Summary/Effects</b>	<b>Status</b>
			among themselves the business of a specific nature that is within subject matter jurisdiction of the legislative body.	
<b><u>AB 1035</u></b> Mayes (R)	Personal Information: Data Breaches		Requires a person or business that owns or licenses computerized data that includes personal information to disclose any breach of the security of the system in the most expedient time possible and without unreasonable delay. Requires an agency that was the source of a security breach to offer, in the notice of the breach, appropriate identity theft prevention and mitigation services at no cost to potential or actual victims of the breach.	05/23/2019 - From SENATE Committee on JUDICIARY with author's amendments.;05/23/2019 - In SENATE. Read second time and amended. Re-referred to Committee on JUDICIARY.
<b><u>AB 1124</u></b> Maienschein (D)	Employment Safety: Outdoor Workers: Wildfire Smoke		Requires the Occupational Safety and Health Standards Board to adopt emergency regulations that require employers to make respirators available to outdoor workers on any day the outdoor worker could reasonably be expected to be exposed to harmful levels of smoke from wildfires, or burning structure due to a wildfire, while working.	08/15/2019 - In SENATE. From third reading. To Inactive File.
<b><u>AB 1217</u></b> Mullin (D)	Electioneering and Issue Lobbying Communications		Requires a person who makes payments of \$10,000 dollars or more for "electioneering communications" or "issue lobbying communications" to make specified disclosures in connection with those communications.	08/14/2019 - From SENATE Committee on ELECTIONS AND CONSTITUTIONAL AMENDMENTS with author's amendments.;08/14/2019 - In SENATE. Read second time and amended. Re-referred to Committee on ELECTIONS AND CONSTITUTIONAL AMENDMENTS.
<b><u>AB 1415</u></b> Friedman (D)	Department of Water Resources: Reporting		Requires the department to impose a civil penalty on an entity that fails to file with the department a specified report or plan by the deadline required for that particular report or plan. Authorizes the department to reduce or waive the civil penalty under certain circumstances.	08/30/2019 - In SENATE Committee on APPROPRIATIONS: Held in committee.

**IRWD 2020 LEGISLATIVE MATRIX**  
**Updated 02/27/2020**

<b>Bill No. Author</b>	<b>Title</b>	<b>IRWD Position</b>	<b>Summary/Effects</b>	<b>Status</b>
<b><u>AB 1484</u></b> Grayson (D)	Mitigation Fee Act: Housing Developments		Prohibits a local agency from imposing a housing impact requirement adopted by the local agency on a housing development project, as defined, unless specified requirements are satisfied by the local agency, including that the housing impact requirement be roughly proportional in both nature and extent to the impact created by the housing development project.	09/09/2019 - In SENATE. Read second time. To third reading.;09/09/2019 - In SENATE. Senate Rule 29.10(b) suspended.;09/09/2019 - Re-referred to SENATE Committee on RULES.
<b><u>AB 1567</u></b> Aguiar-Curry (D)	Organic Waste: Scoping Plan		Requires the Strategic Growth Council , in consultation with stakeholders and relevant permitting agencies, to prepare and submit to the Legislature a report that provides a scoping plan for the state to meet its organic waste, climate change, and air quality mandates, goals, and targets. Requires the scoping plan to include, among other things, recommendations on policy and funding support for the beneficial reuse of organic waste.	01/27/2020 - In ASSEMBLY. Read third time. Passed ASSEMBLY. *****To SENATE.
<b><u>AB 1672</u></b> Bloom (D)	Solid Waste: Nonwoven Disposable Products	SUPPORT	Requires certain nonwoven disposal products to be labeled clearly and conspicuously to communicate that they should not be flushed. Prohibits a covered entity from making a representation about the flushable attributes, benefits, performance, or efficacy of those nonwoven disposal products. Establishes a civil penalty per violation.	01/30/2020 - In ASSEMBLY. Read third time. Passed ASSEMBLY. *****To SENATE.
<b><u>AB 1751</u></b> Chiu (D)	Water and Sewer System Corporations		Authorizes a water or sewer system corporation to file an application and obtain approval from the Public Utilities Commission through an order authorizing the water or sewer system corporation to consolidate with a public water system or certain state small water system, or to implement rates for the subsumed water system.	08/30/2019 - In SENATE Committee on APPROPRIATIONS: Held in committee.
<b><u>AB 1808</u></b> Cervantes (D)	Public Contracts: Goods and Services		Requires bidding on public works contracts, would authorize a state or local agency to use the above-described procedures for the purchase, or purchase and installation, of carpet, resilient flooring, or synthetic turf if the installation work is not performed in	06/19/2019 - Re-referred to SENATE Committees on GOVERNANCE AND FINANCE and GOVERNMENTAL ORGANIZATION.

**IRWD 2020 LEGISLATIVE MATRIX**  
**Updated 02/27/2020**

<b>Bill No. Author</b>	<b>Title</b>	<b>IRWD Position</b>	<b>Summary/Effects</b>	<b>Status</b>
			connection with new construction and the contractor complies with specified requirements relating to wages and labor.	
<b><u>AB 1839</u></b> Bonta (D)	Climate Change: California Green New Deal		Creates the California Green New Deal Council with a specified membership appointed by the Governor. Requires the California Green New Deal Council to submit a specified report to the Legislature no later than a specified date.	01/06/2020 - INTRODUCED.
<b><u>AB 1850</u></b> Gonzalez (D)	Employee Classification		Recasts and reorganizes the State Supreme Court's decision in Dynamex Operations W. v. Superior Court and recently enacted requirements under the Labor Code.	02/14/2020 - To ASSEMBLY Committee on LABOR AND EMPLOYMENT.;02/14/2020 - From ASSEMBLY Committee on LABOR AND EMPLOYMENT with author's amendments.;02/14/2020 - In ASSEMBLY. Read second time and amended. Re-referred to Committee on LABOR AND EMPLOYMENT.
<b><u>AB 1857</u></b> Chen (R)	Redevelopment: Revenues from Property Tax Rates		Requires certain revenues attributable to a property tax rate approved by the voters of a city, county, or special district to make payments in support of a mobile intensive care program in the city of Brea called Paramedics to be allocated to, and when collected to be paid into, the fund of that taxing entity instead of the Redevelopment Property Tax Fund of each successor agency, unless the revenues are pledged as security for the payment of any indebtedness.	01/17/2020 - To ASSEMBLY Committees on HOUSING AND COMMUNITY DEVELOPMENT and LOCAL GOVERNMENT.
<b><u>AB 1915</u></b> Chu (D)	Electrical Corporations: Deenergization Events		Requires the Public Utilities Commission, if it approves a wildfire mitigation plan that authorizes an electrical corporation to deenergize portions of the electrical grid, to adopt rules setting forth the circumstances under which a deenergization event may be undertaken and continued in effect and the appropriate geographic range of a deenergization event.	01/17/2020 - To ASSEMBLY Committee on UTILITIES AND ENERGY.

**IRWD 2020 LEGISLATIVE MATRIX**  
**Updated 02/27/2020**

<b>Bill No. Author</b>	<b>Title</b>	<b>IRWD Position</b>	<b>Summary/Effects</b>	<b>Status</b>
<b><u>AB 1920</u></b> Boerner Horvath (D)	Climate Change: Climate Adaptation Center		Declares the intent of the Legislature to enact subsequent legislation that would establish the Climate Adaptation Center and Regional Support Network to provide technical support and information to local governments on adapting to climate change impacts, including, but not limited to, sea level rise.	01/13/2020 - INTRODUCED.
<b><u>AB 1924</u></b> Grayson (D)	Housing Development: Fees		Requires that a fee levied or imposed on a housing development project by a local agency be proportionate to the square footage of the proposed unit or units.	01/23/2020 - To ASSEMBLY Committees on LOCAL GOVERNMENT and HOUSING AND COMMUNITY DEVELOPMENT.
<b><u>AB 1925</u></b> Oberholte (R)	Worker Status: Independent Contractors: Small Business		Expands the exemptions from the Dynamex decision and provisions of the Labor Code and the Unemployment Insurance Code to also include small businesses.	02/14/2020 - To ASSEMBLY Committee on LABOR AND EMPLOYMENT.
<b><u>AB 1928</u></b> Kiley (R)	Employment Standards: Independent Contractors		Repeals existing provisions for determining when workers are employees or independent contractors, and instead requires a determination of whether a person is an employee or an independent contractor to be based on the specific multifactor test set forth in the Borello case, including whether the person to whom the service is rendered has the right to control the manner and means of accomplishing the result desired, and other identified factors.	02/14/2020 - To ASSEMBLY Committee on LABOR AND EMPLOYMENT.
<b><u>AB 1936</u></b> Rodriguez (D)	Price Gouging: Public Safety Power Shutoffs		Applies the prohibition against price gouging and the penalties described in existing law upon an announcement of a public safety power shutoff by an official, board, or other governing body authorized to make that announcement in any county, city, or city and county.	01/23/2020 - To ASSEMBLY Committee on PUBLIC SAFETY.
<b><u>AB 1947</u></b> Kalra (D)	Employment Violation Complaints: Requirements: Time		Extends the period of time within which people who believe they have been discharged or otherwise discriminated against in violation of the Labor Code may file complaints to within one year after the occurrence of the violations.	01/30/2020 - To ASSEMBLY Committees on LABOR AND EMPLOYMENT and JUDICIARY.

**IRWD 2020 LEGISLATIVE MATRIX**  
**Updated 02/27/2020**

<b>Bill No. Author</b>	<b>Title</b>	<b>IRWD Position</b>	<b>Summary/Effects</b>	<b>Status</b>
<b><u>AB 1961</u></b> Patterson (R)	Whistleblower Protection		Expands the definition of the term protected disclosure under the Whistleblower Protection Act to include a complaint made to a Member of the Legislature, the Legislature, or any subdivision thereof.	01/21/2020 - INTRODUCED.
<b><u>AB 2043</u></b> Gonzalez (D)	Unlawful Business Practices: Employer Liability		Makes a client employer responsible for the acts of a contracted supervisor, as those terms are defined, for specified prohibited harassment under provisions of the Fair Employment and Housing Act.	02/14/2020 - To ASSEMBLY Committees on LABOR AND EMPLOYMENT and JUDICIARY.
<b><u>AB 2060</u></b> Holden (D)	Drinking Water: Pipes and Fittings: Lead Content		Defines lead free for purposes of manufacturing, industrial processing, or conveying or dispensing water for human consumption, to mean not more than one microgram of lead under certain tests and meeting a specified certification when used with respect to end use devices.	02/14/2020 - To ASSEMBLY Committee on ENVIRONMENTAL SAFETY AND TOXIC MATERIALS.
<b><u>AB 2070</u></b> Levine (D)	Elections: Compulsory Voting		Requires a person who qualifies and is registered to vote to cast a ballot, marked or unmarked in whole or in part, at every election held within the territory within which the person resides and the election is held. Requires the Secretary of State to enforce this requirement.	02/14/2020 - To ASSEMBLY Committee on ELECTIONS AND REDISTRICTING.
<b><u>AB 2071</u></b> Muratsuchi (D)	Once Through Cooling Policy: Extension		Prohibits the State Water Resources Control Board from granting to an operator of a power plant additional time for complying with the once through cooling policy adopted by the state board if specified conditions are met.	02/27/2020 - To ASSEMBLY Committees on NATURAL RESOURCES and UTILITIES AND ENERGY.
<b><u>AB 2093</u></b> Gloria (D)	Public Records: Writing Transmitted by Electronic Mail		Requires a public agency, for purposes of the California Public Records Act, to retain and preserve for at least 2 years every public record that is transmitted by electronic mail, unless a longer retention period is required by statute or regulation.	02/20/2020 - To ASSEMBLY Committee on JUDICIARY.
<b><u>AB 2095</u></b> Cooper (D)	Water Theft: Enhanced Penalties		Authorizes the legislative body of a city or a county to make, by ordinance, any violation of an ordinance regarding water theft, as	02/20/2020 - To ASSEMBLY Committee on LOCAL

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			defined, subject to an administrative fine or penalty in excess of certain limitations.	GOVERNMENT.;02/20/2020 - From ASSEMBLY Committee on LOCAL GOVERNMENT with author's amendments.;02/20/2020 - In ASSEMBLY. Read second time and amended. Re-referred to Committee on LOCAL GOVERNMENT.
<b><u>AB 2107</u></b> Rodriguez (D)	Local Government: Securitized Obligation Notes		Extends the authorization for a special district to issue securitized limited obligation notes for the acquisition or improvement of land, facilities, or equipment.	02/20/2020 - To ASSEMBLY Committee on LOCAL GOVERNMENT.
<b><u>AB 2123</u></b> Chau (D)	Accessibility: Internet Website		Specifies that statutory damages based upon the inaccessibility of an internet website shall only be recovered against a business establishment or public place if the internet website fails to provide equally effective communication or to facilitate full and equal enjoyment of the entity's goods and services to the public.	02/20/2020 - To ASSEMBLY Committee on JUDICIARY.
<b><u>AB 2138</u></b> Chau (D)	State Public Records Act		Recodifies and reorganizes the provisions of the State Public Records Act. Includes provisions to govern the effect of recodification and states that the bill is intended to be entirely nonsubstantive in effect.	02/20/2020 - To ASSEMBLY Committee on JUDICIARY.
<b><u>AB 2148</u></b> Quirk (D)	Climate Change: Adaptation: Regional Plans		States the intent of the Legislature to enact legislation that would foster regional scale climate adaptation, as specified. Gives regions time to develop their regional plans and considers, among other things, sea level rise and fire vulnerability.	02/10/2020 - INTRODUCED.
<b><u>AB 2151</u></b> Gallagher (R)	Political Reform Act: Online Filing Disclosure		Requires a local government agency to post on its internet website, within seventy two hours of the applicable filing deadline, a copy of any specified statement, report, or other document filed with that agency in paper format.	02/20/2020 - To ASSEMBLY Committee on ELECTIONS AND REDISTRICTING.
<b><u>AB 2155</u></b> Oberholte (R)	Public Officers: Contract: Prohibited Interests		Amends existing law that prohibits members of the Legislature, and state and city officers or employees, from being financially	02/10/2020 - INTRODUCED.



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			interested in any contract made by them in their official capacity, and that a contract made in violation of these provisions may be avoided by any party. Defines party, for these purposes, as a state taxpayer.	
<b><u>AB 2161</u></b> Levine (D)	Insurance		States the intent of the Legislature to enact legislation relating to insurance.	02/11/2020 - INTRODUCED.
<b><u>AB 2178</u></b> Levine (D)	Emergency Services		Includes a deenergization, defined as a planned public safety power shutoff, within those conditions constituting a state of emergency and a local emergency under the Emergency Services Act.	02/27/2020 - To ASSEMBLY Committee on GOVERNMENTAL ORGANIZATION.
<b><u>AB 2179</u></b> Levine (D)	Electrical Corporations: Wildfire Mitigation Plans		Requires the PUC, if the Commission approves a wildfire mitigation plan that authorizes an electrical corporation to deenergize portions of the electrical grid, to adopt rules requiring an electrical corporation, upon request from an entity of local government with responsibility for mitigating public safety impacts of a deenergization event, to provide to that entity information relative to those customers receiving medical baseline rates that may lose service during the deenergization event.	02/27/2020 - To ASSEMBLY Committee on UTILITIES AND ENERGY.
<b><u>AB 2180</u></b> Levine (D)	Electrical Corporations: Wildfire Mitigation Plans		Ensures that funds designated in an electrical utility's wildfire mitigation plan to reduce wildfire risk are actually used as specified to reduce the risk of wildfires. Prohibits diverting a portion of an electrical utility's wildfire mitigation plan allocation to other projects in the plan without the approval of the Public Utilities Commission. Requires the retention of records to ensure that these critical funds are being spent appropriately.	02/27/2020 - To ASSEMBLY Committee on UTILITIES AND ENERGY.
<b><u>AB 2182</u></b> Rubio (D)	Emergency Backup Generators: Wastewater Facilities		Exempts the operation of an alternative power source to provide power to a critical facility from any local, regional, or state regulation regarding the operation of that source. Authorizes providers of essential public services, in lieu of compliance with applicable legal requirements, to comply with the maintenance and	02/11/2020 - INTRODUCED.

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			testing procedures set forth in the National Fire Protection Association Standard for Emergency and Standby Power System for alternative power sources.	
<b><u>AB 2186</u></b> Grayson (D)	Public Contracting: Contractor Retention Withholding		Eliminates specified limitations on a local agency's authority to prescribe payments on public contracts. The bill, however, prohibits the local agency from withholding more than 5% of the contract price for contracts for the creation, construction, alteration, repair, or improvement of any public structure, building, road, or other improvement of any kind that will exceed \$5,000 in total costs.	02/20/2020 - To ASSEMBLY Committee on LOCAL GOVERNMENT.
<b><u>AB 2195</u></b> Maienschein (D)	Housing Development Incentives		States the intent of the Legislature to subsequently amend this bill to include provisions that would incentivize local jurisdictions and developers to include capital assets, such as neighborhood parks, school facilities, and bicycle paths in the undertaking or approval of housing developments.	02/12/2020 - INTRODUCED.
<b><u>AB 2210</u></b> Aguiar-Curry (D)	Contractors: Violations: Disciplinary Actions		Authorizes disciplinary action against a contractor for violations of specified regulations regarding tree work, including maintenance or removal, without regard to whether death or serious injury to an employee resulted. Requires the registrar appointed by the Contractors' State License Board to initiate disciplinary action against a contractor upon transmission to the board of copies of any citations or other actions taken by the Division of Occupational Safety and Health.	02/20/2020 - To ASSEMBLY Committee on BUSINESS AND PROFESSIONS.
<b><u>AB 2213</u></b> Limon (D)	Office of Emergency Services: Model Guidelines		Requires the Office of Emergency Services to develop model guidelines for local governments, operational areas, and nonprofit, community-based, faith-based, and private sector organizations active in disasters to identify, type, and track community resources that could assist in responding to or recovering from local, tribal, regional, national, or international disasters.	02/20/2020 - To ASSEMBLY Committee on GOVERNMENTAL ORGANIZATION.

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<b><u>AB 2214</u></b> Carrillo (D)	Administrative Procedure Act: Notice of Proposed Action		Requires a state agency proposing to adopt, amend, or repeal specific administrative regulations to conspicuously post those documents on the state agency's website within 24 hours of submitting those documents to the Office of Administrative Law, instead of making those documents available to the public upon request.	02/20/2020 - To ASSEMBLY Committee on ACCOUNTABILITY AND ADMINISTRATIVE REVIEW.
<b><u>AB 2231</u></b> Kalra (D)	Prevailing Wage: Locality		Defines the term "locality in which public work is performed," for purposes of the general prevailing rate of per diem wages for public works projects, as meaning the county in which the public work is done.	02/24/2020 - To ASSEMBLY Committee on LABOR AND EMPLOYMENT.
<b><u>AB 2241</u></b> Calderon I (D)	State Air Resources Board: Report		Makes nonsubstantive changes to the requirement that the State Air Resources Board post on its internet website information on air quality conditions and trends statewide and on the status and effectiveness of state and local air quality programs.	02/13/2020 - INTRODUCED.
<b><u>AB 2272</u></b> Gabriel (D)	Real Property: Eviction Defense		States the intent of the Legislature to enact legislation related to a statewide program for eviction defense.	02/14/2020 - INTRODUCED.
<b><u>AB 2284</u></b> Calderon I (D)	Local Agency Public Construction Act: Change Orders		Relates to contracting by counties for county highways and county bridges and subways, and contracting by county waterworks districts. Requires that the existing caps on the extra cost of any change order be adjusted annually to reflect the percentage change in the California Consumer Price Index. Modifies the cap applicable to contracts.	02/24/2020 - To ASSEMBLY Committee on LOCAL GOVERNMENT.
<b><u>AB 2296</u></b> Quirk (D)	State Water Resources Control Board: Delegation		Authorizes the State Water Resources Control Board to delegate partial responsibility for the Safe Drinking Water Act's administration and enforcement by means of a local primacy delegation agreement. Authorizes the state board, for counties that have not been delegated primary responsibility as of January 2021, to offer an opportunity for the county to apply for partial or primary responsibility if the state board determines that it needs assistance.	02/24/2020 - To ASSEMBLY Committee on ENVIRONMENTAL SAFETY AND TOXIC MATERIALS.

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<b><u>AB 2307</u></b> Bonta (D)	Public Employment: Labor Relations: Release Time		Relates to specified labor laws that require public entities to grant employee representatives of employee organizations reasonable time off without loss of compensation in connection with labor relations. Prescribes requirements relating to release time that would apply to all of the public employers and employees subject to those laws.	02/24/2020 - To ASSEMBLY Committee on PUBLIC EMPLOYMENT AND RETIREMENT.
<b><u>AB 2317</u></b> Weber (D)	Employer Obligations: Waiver		Makes nonsubstantive changes to existing law which voids a contract made by an employee to waive specified obligations that the law imposes on employers.	02/14/2020 - INTRODUCED.
<b><u>AB 2320</u></b> Chau (D)	Personal Information: Contractors: Cyber Insurance		Requires a contract with a contractor doing business with a state agency to require that the contractor maintain cyber insurance if the contractor receives or has access to records containing personal information protected under the Information Practices Act.	02/14/2020 - INTRODUCED.
<b><u>AB 2322</u></b> Friedman (D)	Small Water Suppliers and Rural Communities		Repeals existing law which requires the Department of Water Resources to use available data to identify small water suppliers and rural communities that may be at risk of drought and water storage vulnerability and notify counties and groundwater agencies of those suppliers and communities.	02/14/2020 - INTRODUCED.
<b><u>AB 2323</u></b> Friedman (D)	California Environmental Quality Act: Exemption		Requires, in order to qualify for the California Environmental Quality Act exemption, that the project is undertaken and is consistent with either a specific plan prepared pursuant to specific provisions of law or a community plan as defined in a specific provision of law.	02/14/2020 - INTRODUCED.
<b><u>AB 2324</u></b> Friedman (D)	Urban Water Use		Repeals existing law requiring the Department of Water Resources to conduct studies and investigations on the feasibility of developing and enacting water loss reporting requirements for urban wholesale water suppliers.	02/14/2020 - INTRODUCED.

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<b><u>AB 2333</u></b> Quirk (D)	Waste: Releases: Remedial Action: Local Oversight		Authorizes a responsible party to request the local officer to oversee the remedial action only if the release is not being overseen by the Department of Toxic Substances or regional water quality control board and authorizes the local officer to agree to oversee the remedial action only if the local officer demonstrates to the department or the regional water quality control board that the same conditions referenced have been met.	02/24/2020 - To ASSEMBLY Committee on ENVIRONMENTAL SAFETY AND TOXIC MATERIALS.
<b><u>AB 2334</u></b> Levine (D)	Subsurface Installations: Attorney's Fees and Costs		Requires a court to award attorney's fees and costs, including expert witness fees, to a prevailing party in a civil action or arbitration for specified damages arising from the excavation and arising between an operator of a subsurface installation and an excavator. Applies certain procedures relating to offers to compromise to these civil actions and arbitrations.	02/14/2020 - INTRODUCED.
<b><u>AB 2355</u></b> Bonta (D)	Employment Discrimination: Medical Cannabis		Makes it an unlawful employment practice for an employer or other entity to refuse to hire or employ a person, to refuse to select a person for a training program leading to employment, to bar or to discharge a person from employment or from a training program leading to employment, or to discriminate against an employee, because of the employee's status as a qualified patient, or as a person with an identification card, for purposes of medical cannabis, subject to certain exceptions.	02/18/2020 - INTRODUCED.
<b><u>AB 2364</u></b> Rubio (D)	Municipal Separate Storm Sewer Systems		Requires the State Water Resources Control Board to establish financial capability assessment guidelines for municipal separate storm sewer system permittees that are adequate and consistent when considering the costs to local jurisdictions. Requires the State Board and the regional boards to continue using available regulatory tools and other approaches to foster collaboration with permittees to implement permit requirements in light of the costs of implementation.	02/24/2020 - To ASSEMBLY Committee on ENVIRONMENTAL SAFETY AND TOXIC MATERIALS.

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<b><u>AB 2371</u></b> Friedman (D)	Climate Change: Adaption		Requires the Secretary of Natural Resources Agency to review the plan and develop a strategic resiliency framework that, among other things, makes recommendations on actions that are necessary to prepare the state for the most significant climate change impacts modeled for 2025, 2050, and beyond, review available funding resources, make recommendations for aligning investments with the framework, and establish actions for community and economic resiliency, the ocean and coast, and terrestrial ecosystems.	02/24/2020 - To ASSEMBLY Committee on NATURAL RESOURCES.
<b><u>AB 2379</u></b> Smith C (D)	Sales and Use Tax: Exemption: Emergency Preparation		Exempts from sales and use tax the gross receipts from the sale of, and the storage, use, or other consumption of, emergency preparation items sold or purchased during the three day period beginning on the Saturday before the last Monday in June and ending on the last Monday in June.	02/24/2020 - To ASSEMBLY Committee on REVENUE AND TAXATION.
<b><u>AB 2391</u></b> Gallagher (R)	Internet: Social Media or Search Engine Service		Prohibits a person who operates a social media internet website located in the state from removing or manipulating content from that site on the basis of political affiliation or political viewpoint of that content. Provides, however, that the bill would authorize a site to remove content of a political nature if the site's content is limited to the promotion of only certain political viewpoints and the content is inconsistent with those viewpoints or the content violates the site's community values.	02/18/2020 - INTRODUCED.
<b><u>AB 2395</u></b> Lackey (R)	State Mandates: Claims		Relates to reimbursement of local governments for costs imposed by the state. Changes the minimum claim amount.	02/24/2020 - To ASSEMBLY Committee on LOCAL GOVERNMENT.
<b><u>AB 2406</u></b> Wicks (D)	Rental Registry Online Portal		Requires the Department of Housing and Community Development to enter into a contract with a contractor to create and administer a rental registry online portal, which would be designed to receive specified information from landlords that own or operate five or more rental dwelling units regarding their residential tenancies and to disseminate this information to the general public.	02/18/2020 - INTRODUCED.

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<u><b>AB 2427</b></u> Gipson (D)	Elections: Voter Registration		Requires a county or a city and county that operates a jail facility to allow organizations to conduct in person voter registration activities, including, but not limited to, the provision of vote by mail applications, in each county jail facility. Requires a county or city and county to establish policies and criteria governing the admittance of individuals from those organizations into jail facilities, including procedures for notifying an individual of the basis for denial of admittance.	02/24/2020 - To ASSEMBLY Committee on ELECTIONS AND REDISTRICTING.
<u><b>AB 2433</b></u> Cooper (D)	Local Public Employee Organizations		Revises a timeframe under the Meyers-Milias-Brown Act to no earlier than 15 days after the factfinders's written findings of fact and recommended terms of settlement have been submitted to the parties.	02/24/2020 - To ASSEMBLY Committee on PUBLIC EMPLOYMENT AND RETIREMENT.
<u><b>AB 2438</b></u> Chau (D)	Public Records Act: Conforming Revisions		Enacts various conforming and technical changes related to another bill that recodifies and reorganizes the Public Records Act. Becomes operative only if the related bill recodifying the act is enacted and becomes operative on January 1, 2022.	02/27/2020 - To ASSEMBLY Committee on JUDICIARY.
<u><b>AB 2441</b></u> Rivas (D)	Climate Change: Safeguarding California Plan		Includes, as objectives to be maximized, building resilient communities by developing projects that incorporate, to the maximum extent feasible, cool surface materials and investing in communities to develop community-specific climate resilience plans and to establish community resilience centers to mitigate impacts of local climate risks.	02/27/2020 - To ASSEMBLY Committee on NATURAL RESOURCES.
<u><b>AB 2444</b></u> Gallagher (R)	California Environmental Quality Act: Guidelines		Makes nonsubstantive changes to the requirements regarding the preparation, development, certification, and adoption of the guidelines for the implementation of CEQA by public agencies.	02/19/2020 - INTRODUCED.
<u><b>AB 2452</b></u> Garcia (D)	State Auditor: Audits: High Risk Local Government		Authorizes the State Auditor to include in the high risk local government agency audit program any local agency or district association that the State Auditor identifies as being at high risk for the potential of waste, fraud, abuse, or mismanagement or that has	02/27/2020 - To ASSEMBLY Committee on ACCOUNTABILITY AND ADMINISTRATIVE REVIEW.

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			major challenges associated with its economy, efficiency, or effectiveness.	
<b><u>AB 2467</u></b> Levine (D)	Voters: Eligibility		Makes technical, nonsubstantive changes to provisions relating to voter registration.	02/19/2020 - INTRODUCED.
<b><u>AB 2470</u></b> Kamlager-Dove (D)	Splitting Multifamily Dwelling Units: Approval		Authorizes a development proponent to submit an application for a development to split one or more dwelling units within a multifamily housing development to create additional smaller dwelling units to be subject to a streamlined, ministerial approval process, provided that development proponent reserves at least 10% of the proposed housing units for persons and families of low or moderate income.	02/19/2020 - INTRODUCED.
<b><u>AB 2473</u></b> Cooper (D)	Public Investment Funds		Exempts from disclosure under California Public Records Act specified records regarding an internally managed private loan made directly by a public investment fund, including quarterly and annual financial statements of the borrower or its constituent owners, unless the information has already been publicly released by the keeper of the information.	02/19/2020 - INTRODUCED.
<b><u>AB 2479</u></b> Gipson (D)	Wages		Makes nonsubstantive changes to the definitions of “wages” and “labor” for purposes of provisions regarding the payment of wages to employees in various occupations.	02/19/2020 - INTRODUCED.
<b><u>AB 2488</u></b> Gonzalez (D)	Drinking Water: Lead Safe Schools Protection Act		Makes nonsubstantive changes to provisions of the Lead Safe Schools Protection Act.	02/19/2020 - INTRODUCED.
<b><u>AB 2502</u></b> Quirk (D)	Groundwater Sustainability Plans: Impacts on Wetlands		Relates to the Sustainable Groundwater Management Act. Adds impacts to managed wetlands, as specified, to the additional analyses or components that a plan is required to contain when appropriate.	02/27/2020 - To ASSEMBLY Committee on WATER, PARKS AND WILDLIFE.



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<b><u>AB 2504</u></b> Nazarian (D)	Seismic Retrofitting		States the intent of the Legislature to enact legislation to encourage seismic safety retrofitting of buildings and homes.	02/19/2020 - INTRODUCED.
<b><u>AB 2509</u></b> Mathis (R)	Drinking Water: Consolidation		Makes nonsubstantive changes to findings and declarations of the Safe Drinking Water Act.	02/19/2020 - INTRODUCED.
<b><u>AB 2518</u></b> Wood (D)	Voluntary Stream Restoration Landowner Liability		Exempts a landowner who voluntarily allows land to be used for a project to restore fish and wildlife habitat, from civil liability for property damage or personal injury resulting from the project if the project is funded, at least in part, by a state or federal agency that promotes or encourages riparian habitat restoration, unless the property damage or personal injury is caused by willful, intentional, or reckless conduct of the landowner or by a maintenance activity performed by the landowner.	02/27/2020 - To ASSEMBLY Committee on WATER, PARKS AND WILDLIFE.
<b><u>AB 2519</u></b> Wood (D)	Reservoirs and Dams: Defective Applications		Requires the Department of Water Resources to send a notice of defective application by ordinary and registered mail or by electronic mail.	02/27/2020 - To ASSEMBLY Committee on WATER, PARKS AND WILDLIFE.
<b><u>AB 2536</u></b> Oberholte (R)	California Environmental Quality Act		Makes nonsubstantive changes to provisions of the California Environmental Quality Act.	02/19/2020 - INTRODUCED.
<b><u>AB 2547</u></b> Gonzalez (D)	California Renewables Portfolio Standard Program		Increases the requirement for the purchase of Category 1 products in meeting the retailers sellers renewable energy procurement obligations certain compliance periods. Prohibits the purchase of Category 3 products in meeting the retailer seller's renewable energy procurement obligations for certain compliance periods.	02/19/2020 - INTRODUCED.
<b><u>AB 2560</u></b> Quirk (D)	Water Quality: Notification and Response Levels		Requires the State Water Resources Control Board to comply with specified public notice, and comment and peer review procedures, as prescribed, when establishing or revising notification or response levels.	02/19/2020 - INTRODUCED.

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<b><u>AB 2564</u></b> Chau (D)	Cybersecurity		States the intent of the Legislature to enact legislation to improve the security of information technology systems and connected devices by requiring public agencies and businesses to develop security vulnerability disclosure policies.	02/20/2020 - INTRODUCED.
<b><u>AB 2566</u></b> Garcia (D)	Consumption-Based Greenhouse Gas Inventory		Requires the State Air Resources Board to create and track a consumption-based greenhouse gas inventory for the state, and to update that inventory every 5 years. Requires the state board to update the scoping plan once the initial consumption-based greenhouse gas inventory has been completed.	02/20/2020 - INTRODUCED.
<b><u>AB 2574</u></b> Dahle M (R)	Wildlife Resources: Natural Community Conservation Plan		Expands the time for public review and comment on a proposed planning agreement under the Natural Community Conservation Planning Act from 21 calendar days to 21 business days.	02/20/2020 - INTRODUCED.
<b><u>AB 2577</u></b> Chiu (D)	Environmental Protection: Vulnerable Population		Requires the Office of Planning and Research and the Strategic Growth Council to identify vulnerable populations using geographic, socioeconomic, public health, social determinants of health, environmental, and climate exposure criteria. Requires the office and council, in identifying the vulnerable populations, to undertake a robust participatory process that engages members of disadvantaged communities and other populations at significant risk from climate change impacts.	02/20/2020 - INTRODUCED.
<b><u>AB 2599</u></b> Rivas (D)	Political Reform Act of 1974: Fair Political Practices		Makes a technical, nonsubstantive change to a provision of the Political Reform Act of 1974.	02/20/2020 - INTRODUCED.
<b><u>AB 2603</u></b> Daly (D)	Accessory Dwelling Units		Makes a nonsubstantive change to provisions relating to accessory dwelling units.	02/20/2020 - INTRODUCED.
<b><u>AB 2619</u></b> Stone (D)	Program for Coastal Resilience, Adaptation, and Access		Establishes the Program for Coastal Resilience Adaption and Access for the purpose of funding specified activities intended to help the state prepare, plan, and implement actions to address and adapt to sea level rise and coastal climate change. Creates the	02/20/2020 - INTRODUCED.

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			Coastal Resilience, Adaption, and Access Fund in the State Treasury, and would authorize the California Coastal Commission and specified state agencies to expend moneys in the fund.	
<b><u>AB 2621</u></b> Mullin (D)	Climate Resiliency		Expresses the intent of the Legislature to enact subsequent legislation relating to climate resiliency.	02/20/2020 - INTRODUCED.
<b><u>AB 2623</u></b> Arambula (D)	Sustainable Groundwater Management		Makes nonsubstantive changes to provisions of the Sustainable Groundwater Management Act.	02/20/2020 - INTRODUCED.
<b><u>AB 2642</u></b> Salas (D)	Multibenefit Land Conversion Incentive Program		Requires the Department of Conservation to establish and administer a program named the Multibenefit Land Conversion Incentive Program for purposes of providing grants to groundwater sustainability agencies, or other specified entities designated by groundwater sustainability agencies, for the development or implementation of local programs supporting or facilitating multibenefit land conversion at the basin scale.	02/20/2020 - INTRODUCED.
<b><u>AB 2652</u></b> Petrie-Norris (D)	Community Redevelopment Law		Makes nonsubstantive changes to the definition of “obligee” under the Community Redevelopment Law.	02/20/2020 - INTRODUCED.
<b><u>AB 2656</u></b> Eggman (D)	Wholesale Water Suppliers: Water Loss Audit Reports		Expresses the intent of the Legislature to enact legislation that would require wholesale water suppliers to conduct and submit annual water loss audit reports to the Department of Water Resources.	02/20/2020 - INTRODUCED.
<b><u>AB 2659</u></b> Chen (R)	Public Agencies: Information Practices		Requires that the rules of conduct under the Information Practices Act of 1977 include security awareness and training policies and procedures.	02/20/2020 - INTRODUCED.
<b><u>AB 2669</u></b> Irwin (D)	Cybersecurity Programs		States the intent of the Legislature to enact legislation relating to state information security programs.	02/20/2020 - INTRODUCED.

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<b><u>AB 2676</u></b> Quirk (D)	California Public Records Act: Exemptions		Relates to the California Public Records Act. Relates to an exemption from the disclosure critical infrastructure information, as defined, that is voluntarily submitted to the Office of Emergency Services for use by that office, including the identity of the person who or entity that voluntarily submitted the information. Removes the restriction that the submission be voluntary, thereby expanding that exemption.	02/20/2020 - INTRODUCED.
<b><u>AB 2693</u></b> Bloom (D)	Watershed Restoration Administration: Oroville, Shasta		Establishes the Watershed Restoration Administration to coordinate and facilitate the restoration and conservation of the watersheds supplying the Oroville, Shasta, and Trinity Reservoirs and to provide grant funding from the Headwaters Restoration Account for those purposes. Requires the administration to consist of a decision making body.	02/20/2020 - INTRODUCED.
<b><u>AB 2705</u></b> Low (D)	Deenergization Events		States the intent of the Legislature to enact legislation with regard to notifications by electrical corporations relating to deenergization events.	02/20/2020 - INTRODUCED.
<b><u>AB 2706</u></b> Fong (R)	California Environmental Quality Act: Proceedings		Makes the authorization under CEQA for the plaintiff or petitioner to elect to prepare the record of proceedings or to agree to an alternative method of record preparation in an application in a proceeding challenging a project that will be exclusively located or implemented in a county with fewer than 1,000,000 residents and, if the project is located in a city within that county, the city has fewer than 500,000 residents.	02/20/2020 - INTRODUCED.
<b><u>AB 2720</u></b> Salas (D)	California Environmental Quality Act		Requires the lead agency, for a groundwater recharge project on agricultural land fallowed as a result of management actions required by a groundwater sustainability plan, to prepare a negative declaration or a mitigated negative declaration if there is substantial evidence in the record that a project or a revised project would not have a significant environmental impact.	02/20/2020 - INTRODUCED.

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<b><u>AB 2722</u></b> McCarty (D)	Development Fees and Charges: Deferral		Prohibits a noncompliant local agency that imposes any fees or charges on a qualified development from requiring the payment of those fees or charges until 20 years from the date of the final inspection, or the date the certificate of occupancy is issued, whichever occurs first.	02/20/2020 - INTRODUCED.
<b><u>AB 2734</u></b> Chiu (D)	California Environmental Quality Act		Makes nonsubstantive changes to a provision relating to the title of the California Environmental Quality Act (CEQA).	02/20/2020 - INTRODUCED.
<b><u>AB 2736</u></b> Garcia E (D)	State Water Resources Control Board: Hearings		Makes nonsubstantive changes to the State Water Resources Control Board provision, which authorizes the board to hold any hearings and conduct any investigations on any part of the state necessary to carry out the powers vested in it.	02/20/2020 - INTRODUCED.
<b><u>AB 2744</u></b> Limon (D)	Environmental Protection: Environmental Data		Makes nonsubstantive revisions to legislative findings and declarations relative to the purposes of the law regarding environmental data reporting requirements.	02/20/2020 - INTRODUCED.
<b><u>AB 2748</u></b> Fong (R)	Public Agencies: Information Practices		Requires a public agency subject to the Information Practices Act of 1977 to collect the least amount of personal information required to fulfill the purposes of its collection. Requires an agency able to fulfill its requirements by collecting nonpersonal information instead of personal information to do so.	02/20/2020 - INTRODUCED.
<b><u>AB 2750</u></b> Bigelow (R)	Worker Status: Independent Contractors		Makes nonsubstantive changes to provisions exempting specified occupations and business relationships from the application of the "ABC" test.	02/20/2020 - INTRODUCED.
<b><u>AB 2751</u></b> Irwin (D)	Consumer Privacy		States the intent of the Legislature to enact legislation relating to the California Consumer Privacy Act.	02/20/2020 - INTRODUCED.
<b><u>AB 2758</u></b> Cooper (D)	Alternative Workweek Schedule		Makes nonsubstantive changes to provisions relating to an alternative workweek schedule.	02/20/2020 - INTRODUCED.

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<u><b>AB 2765</b></u> O'Donnell (D)	Public Works: Prevailing Wages		Expands the definition of public works, for the purposes of provisions relating to the prevailing rate of per diem wages, to also include any construction, alteration, demolition, installation, or repair work done under private contract on a project for a charter school, as defined, when the project is paid for, in whole or in part, with the proceeds of conduit revenue bonds.	02/20/2020 - INTRODUCED.
<u><b>AB 2769</b></u> Petrie-Norris (D)	Property Taxation		Relates to existing property tax law which makes the assessor and the assessor's sureties liable on the assessor's official bond for all taxes on property that is unassessed through their willful failure or neglect. Makes nonsubstantive changes to that liability provision.	02/20/2020 - INTRODUCED.
<u><b>AB 2774</b></u> Jones-Sawyer (D)	Hiring of Real Property: Tenants: Late Fees		Prohibits a landlord, or the landlord's agent, from charging a tenant a late fee in excess of a specified amount with regard to specified rental agreements. Specifies that it is not intended to supersede any applicable law or regulation that governs the collection of late fees under federal or state housing assistance programs.	02/20/2020 - INTRODUCED.
<u><b>AB 2799</b></u> Petrie-Norris (D)	Property Taxation: Assessment		Makes nonsubstantive changes to provision of existing property tax law.	02/20/2020 - INTRODUCED.
<u><b>AB 2800</b></u> Quirk (D)	Fire Prevention: State Responsibility Areas		Requires the State Board of Forestry and Fire Protection to consider the impacts of climate change upon an update of the land classifications or when making modifications to the plan.	02/20/2020 - INTRODUCED.
<u><b>AB 2815</b></u> Chen (R)	Workforce Development		Makes nonsubstantive changes to declarations related to the need to have a well educated and highly skilled workforce in the state.	02/20/2020 - INTRODUCED.
<u><b>AB 2823</b></u> Waldron (R)	Worker Status: Independent Contractors		Includes an individual who holds an active license from the state and is practicing as a land surveyor, landscape architect, geologist, or geophysicist, and includes an individual who is a construction manager or planner, under the Labor Code, the Unemployment Insurance Code, and the wage order of the Industrial Welfare Commission.	02/20/2020 - INTRODUCED.

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<b><u>AB 2832</u></b> Garcia (D)	Greenhouse Gases: Carbon Neutrality		Declares the policy of the state to achieve carbon neutrality as soon as possible, but no longer than 2045, and to achieve and maintain new negative greenhouse gas emissions.	02/20/2020 - INTRODUCED.
<b><u>AB 2843</u></b> Chu (D)	Local Employer Affordable Housing Fees		Requires a city, county, or city and county to collect an additional annual fee from any applicant for a local business license in an amount depending on the number of employees employed by the business, as specified.	02/20/2020 - INTRODUCED.
<b><u>AB 2849</u></b> Chau (D)	Proposition 65: Enforcement		Makes nonsubstantive changes to the Safe Drinking Water and Toxic Enforcement Act of 1986 and its enforcement provisions.	02/21/2020 - INTRODUCED.
<b><u>AB 2850</u></b> Low (D)	Wage Laws		Makes nonsubstantive changes to provisions of existing law which prohibits an employer from collecting or receiving any part of the wages paid to an employee.	02/21/2020 - INTRODUCED.
<b><u>AB 2901</u></b> Chau (D)	California Environmental Quality Act		Makes nonsubstantive changes to provisions related to the preparation of a subsequent or supplemental EIR under the California Environmental Quality Act.	02/21/2020 - INTRODUCED.
<b><u>AB 2905</u></b> Ramos (D)	Internships		States the intent of the Legislature to enact legislation to incentivize employers to provide internship opportunities.	02/21/2020 - INTRODUCED.
<b><u>AB 2907</u></b> Gipson (D)	Planning and development		Makes nonsubstantive changes in the definition of "right-of-way" under the Planning and Zoning Law.	02/21/2020 - INTRODUCED.
<b><u>AB 2930</u></b> Petrie-Norris (D)	Wages		Makes nonsubstantive changes to definitions of the terms wages and labor for purposes of provisions regarding the payment of wages to employees in various occupations.	02/21/2020 - INTRODUCED.
<b><u>AB 2941</u></b> Flora (R)	Itemized Wage Statements		Makes nonsubstantive changes to provisions requiring an employer, either semimonthly or at the time of each payment of	02/21/2020 - INTRODUCED.

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			wages, to furnish their employees with an accurate itemized wage statement showing specified information.	
<b><u>AB 2943</u></b> Ting (D)	Surplus Property: Disposal		Provides that the provisions regulating the disposal of surplus land shall not be construed to require a local agency to dispose of land that is determined to be surplus.	02/21/2020 - INTRODUCED.
<b><u>AB 2947</u></b> Bonta (D)	Discrimination: Employee Complaint: Standard of Proof		Provides that an intentional violation of the California Fair Employment and Housing Act regarding employment occurs when a person intends to discriminate using any of the protected characteristics of any person as a motivating factor in the employment action or decision even though other factors may have also motivated the action or decision, as proven by direct or circumstantial evidence.	02/21/2020 - INTRODUCED.
<b><u>AB 2965</u></b> Kalra (D)	Wildlife Resources: State Policy		Makes nonsubstantive changes to existing law which declares it to be the policy of the state to encourage the preservation, conservation, and maintenance of wildlife resources.	02/21/2020 - INTRODUCED.
<b><u>AB 2987</u></b> Flora (R)	Local Agency Public Contracts: Bidding		Authorizes a public agency, as an alternative to the publication or posting requirement, to meet the notice inviting formal bids requirement by transmitting notice electronically, and publishing the notice electronically in a prescribed manner on the public agency's internet website at least 14 calendar days before the date of opening the bids.	02/21/2020 - INTRODUCED.
<b><u>AB 2992</u></b> Weber (D)	Employment Practices: Leave Time		Requires an employer to allow family and medical leave, under certain conditions.	02/21/2020 - INTRODUCED.
<b><u>AB 2999</u></b> Low (D)	Employees: Bereavement Leave		Prohibits an employer from refusing to grant a request by any employee to take up to 10 days of bereavement leave or to interfere with or restrain an employee from doing so. Authorizes an employee who has been discharged, disciplined, or discriminated against for exercising their right to bereavement leave to bring a	02/21/2020 - INTRODUCED.



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			civil action against their employer for reinstatement, specified damages, and attorney's fees.	
<b><u>AB 3008</u></b> Petrie-Norris (D)	Nuisance Definition		Makes nonsubstantive changes to the definition of nuisance.	02/21/2020 - INTRODUCED.
<b><u>AB 3011</u></b> Wood (D)	Fire Prevention: Hazardous Fire Areas		Makes nonsubstantive changes to regulations implementing minimum fire safety standards related to defensible space.	02/21/2020 - INTRODUCED.
<b><u>AB 3026</u></b> Melendez (R)	Property Tax: Revenue Allocations		Makes a nonsubstantive change to a provision relating to property tax revenue allocations.	02/21/2020 - INTRODUCED.
<b><u>AB 3027</u></b> O'Donnell (D)	Biogas: Alternative Delivery Methods		States the intent of the Legislature to enact subsequent legislation to evaluate alternative delivery methods of biogas that reduces the emissions of methane gas.	02/21/2020 - INTRODUCED.
<b><u>AB 3033</u></b> Kamlager-Dove (D)	Infrastructure and Revitalization Financing		Makes nonsubstantive to provisions of existing law authorizes the creation by a city, county, city and county, or joint powers authority of an infrastructure and revitalization financing district and the issuance of debt with a two-thirds voter appeal.	02/21/2020 - INTRODUCED.
<b><u>AB 3034</u></b> Chen (R)	Property Taxation: Assessment		Makes a nonsubstantive change to provisions of the existing property tax law.	02/21/2020 - INTRODUCED.
<b><u>AB 3044</u></b> Irwin (D)	Home Inspections: Sewer Lateral Repairs		Creates an exception to provisions regarding unfair business practices relating to home inspections. provides that the provisions that do not affect the ability of a plumbing contractor who holds a specified license to perform repairs pursuant to the contractor's inspection of a sewer lateral connecting to a residence or business to a municipal sewer system if the consumer is provided a specified disclosure before authorizing the home inspection.	02/21/2020 - INTRODUCED.
<b><u>AB 3047</u></b> Flora (R)	Water Quality		Expresses the intent of the Legislature to enact legislation relating to water quality.	02/21/2020 - INTRODUCED.

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<b><u>AB 3048</u></b> Flora (R)	Safe Drinking Water Act: Definitions		Makes nonsubstantive changes to definitions of the California Safe Drinking Water Act.	02/21/2020 - INTRODUCED.
<b><u>AB 3054</u></b> Salas (D)	California Environmental Quality Act		Requires a plaintiff or petitioner, in an action or proceeding brought pursuant to the act, to disclose the identity of a person or entity that contributes \$1,000 or more, as specified, towards the plaintiff's or petitioner's costs of the action or proceeding.	02/21/2020 - INTRODUCED.
<b><u>AB 3074</u></b> Friedman (D)	Fire Prevention: Wildfire Risk: Defensible Space		Relates to defensible space. Requires more intense fuel reductions between 5 and 30 feet around the structure, and to create an ember-resistant zone within 5 feet of the structure, as provided.	02/21/2020 - INTRODUCED.
<b><u>AB 3077</u></b> Santiago (D)	Residential Real Property: Tenancy: Termination		Prohibits an owner of a residential dwelling from giving notice of their intention to terminate a tenancy in order to sell the property to new owners who will hold title to the property as tenants in common. Prohibits an owner of residential real property upon which the constraints described above have been placed from withdrawing the accommodations from rent or lease in order to sell the property to new owners who will hold title to the property as tenants in common.	02/21/2020 - INTRODUCED.
<b><u>AB 3085</u></b> Limon (D)	Wildfire Prone Areas		States the intent of the Legislature to enact legislation relating to housing in wildfire prone areas.	02/21/2020 - INTRODUCED.
<b><u>AB 3088</u></b> Chiu (D)	Tenant Protection Act of 2019		Corrects an erroneous cross-reference in the Tenant Protection Act of 2019.	02/21/2020 - INTRODUCED.
<b><u>AB 3089</u></b> Petrie-Norris (D)	Public Utilities Commission		Makes nonsubstantive revisions to provisions of The Public Utilities Act.	02/21/2020 - INTRODUCED.
<b><u>AB 3096</u></b> Chiu (D)	Division of Labor Standards Enforcement		Makes a nonsubstantive change to provisions of existing law creating the Division of Labor Standards Enforcement.	02/21/2020 - INTRODUCED.

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<b><u>AB 3100</u></b> Garcia E (D)	Self Generation Incentive Program		Makes nonsubstantive revisions to the requirement that the Public Utilities Commission allocate at least 10% of the annual collection for the self-generation incentive program in the 2020 calendar year for the installation of energy storage and other distributed energy resources for customers that operate critical facilities or critical infrastructure serving communities in high fire threat districts to support resiliency during a deenergization event.	02/21/2020 - INTRODUCED
<b><u>AB 3109</u></b> Ting (D)	Air Districts: State Ambient Air Quality Standards		Requires the air pollution control districts to report that information to the State Air Resources Board on or before March 1 of each year.	02/21/2020 - INTRODUCED.
<b><u>AB 3111</u></b> Gipson (D)	Carl Moyer Memorial Air Quality Standards		Makes technical, nonsubstantive changes to provisions of the Carl Moyer Memorial Air Quality Standards Attainment Program.	02/21/2020 - INTRODUCED.
<b><u>AB 3116</u></b> Irwin (D)	The Information Practices Act of 1977		Makes nonsubstantive changes to a specified provision of the Information Practices Act of 1977.	02/21/2020 - INTRODUCED.
<b><u>AB 3119</u></b> Wicks (D)	Personal Information		Makes nonsubstantive changes to the California Consumer Privacy Act of 2018.	02/21/2020 - INTRODUCED.
<b><u>AB 3123</u></b> Gonzalez (D)	California Safe Drinking Water Act		Makes nonsubstantive changes to provisions of the California Safe Drinking Water Act.	02/21/2020 - INTRODUCED.
<b><u>AB 3128</u></b> Burke (D)	Electricity: Deenergization Events: Fuel Cells		Provides that it is the intent of the Legislature to enact legislation that would incentivize the use of fuel cells to address reliability issues associated with public safety power shutoffs.	02/21/2020 - INTRODUCED.
<b><u>AB 3144</u></b> Grayson (D)	Housing Cost Reduction Incentive Program		Establishes the Housing Cost Reduction Incentive Program, to be administered by the Department of Housing and Community Development for the purpose of reimbursing cities, counties, and cities and counties for development impact fee waivers or reductions provided to qualified rental housing developments.	02/21/2020 - INTRODUCED.

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<b><u>AB 3145</u></b> Grayson (D)	Local Government: Housing Development		Prohibits a city or county from imposing a specified fee or exaction if the total dollar amount of the fees and exactions that a city or county would impose on a proposed housing development is greater than a portion of the city's or county's median home price, unless approved by the Department of Housing and Community Development.	02/21/2020 - INTRODUCED.
<b><u>AB 3146</u></b> Bonta (D)	Housing Data: Collection and Reporting		Requires a planning agency to include in that annual report specified additional information regarding housing development projects located within the jurisdiction, and information relate to local requirements or incentives for proposed housing development projects as provided.	02/21/2020 - INTRODUCED.
<b><u>AB 3147</u></b> Gabriel (D)	Fees for Development Projects		Deletes the provisions for The Mitigation Fee Act requiring a judicial action or proceeding to attack, review, set aside, void, or annul an ordinance within 120 days of the effective date of the ordinance or increase, as applicable. Requires judicial action to be conducted with other procedures that, among other things, require a protest to be filed within 90 days after the imposition of the fees and an action to annul the imposition of the fees.	02/21/2020 - INTRODUCED.
<b><u>AB 3148</u></b> Chiu (D)	Planning and Zoning: Density Bonuses		Requires a city, county, special district, water corporation, utility, or other local agency, except a school district, to reduce an impact fee or other charges imposed on the construction of a deed restricted affordable housing unit that is built pursuant to a density bonus, to amounts that are, depending on the affordability restriction on the unit, a specified percentage of the impact fee or other charge that would be imposed on a market rate unit within the development.	02/21/2020 - INTRODUCED.
<b><u>AB 3149</u></b> Gloria (D)	Mitigation Fee Act		Makes nonsubstantive changes to provisions of the Mitigation Fee Act.	02/21/2020 - INTRODUCED.

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<b><u>AB 3155</u></b> Rivas R (D)	Subdivision Map Act: Small Lot Subdivisions		Authorizes a development proponent to submit an application for the construction of a small lot subdivision that meets specified criteria. Requires a small lot subdivision to be located on a parcel zoned for multifamily residential use and consist of individual housing units that comply with existing height, floor area, and setback requirements applicable to the presubdivided parcel.	02/21/2020 - INTRODUCED.
<b><u>AB 3164</u></b> Friedman (D)	Fire Prevention: Wildland Urban Interface		Requires the Department of Forestry and Fire Protection to develop a wildland urban interface wildfire risk model to determine the risk for a community or parcel within a local responsibility area or state responsibility the department to establish, and consult with, an advisory workgroup, with specified members, to develop the model. Requires the department to update the model and guidelines when fire hazard severity zones are revised.	02/21/2020 - INTRODUCED.
<b><u>AB 3173</u></b> Bloom (D)	Planning and Zoning Law		Requires a city or county with a population of more than 400,000 people to permit the building of microunit buildings in any zone where multifamily residential buildings are permitted. Requires that microunit buildings be permitted on the same basis as multifamily dwelling units. Sets minimum standards for the construction of microunit buildings, including floor space ratios and setback requirements. Requires that specified percentages of microunit buildings be set aside for affordable housing.	02/21/2020 - INTRODUCED.
<b><u>AB 3178</u></b> Kalra (D)	Public Works: Labor Compliance		Makes technical, nonsubstantive changes to provisions that authorize the awarding body for a public works project to not require the payment of the general prevailing rate of per diem wages on public works projects of specified sizes and types of work, if the awarding body elects to initiate and enforce a labor compliance program containing specified requirements for every public works project under its authority.	02/21/2020 - INTRODUCED.
<b><u>AB 3187</u></b>	Employment: Wages and Hours: Overtime		Makes nonsubstantive changes to definitions of terms relating to a day's work and a 40-hour workweek.	02/21/2020 - INTRODUCED.

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Petrie-Norris (D)				
<b><u>AB 3197</u></b> Diep (R)	Contractors Registration Exemption		Defines “public works” for the purposes of regulating public works contracts, as, among other things, construction, alteration, demolition, installation, or repair work done under contract and paid for, in whole or in part, out of public funds. Specifies that the registration requirement discussed above does not apply to services provided by a licensed architect unless those services require the payment of a prevailing wage.	02/21/2020 - INTRODUCED.
<b><u>AB 3211</u></b> Bauer-Kahan (D)	Toxic Air Contaminants		Authorizes local pollution control districts to adopt and implement regulations to require data regarding air pollution within the district's jurisdiction from areawide stationary sources of air pollution to enable the calculation of health risks from toxic air contaminants.	02/21/2020 - INTRODUCED.
<b><u>AB 3223</u></b> Gallagher (R)	Information Practices: Public Agencies		Makes an agency be liable for all damages proximately caused by a negligent or intentional violation of the requirements of the Information Practices Act.	02/21/2020 - INTRODUCED.
<b><u>AB 3232</u></b> Friedman (D)	Commercial Washing Machines: Microfiber Filter		Requires that all washing machines for commercial sale in California contain a microfiber filtration system with a 90% or greater filtration rate.	02/21/2020 - INTRODUCED.
<b><u>AB 3234</u></b> Gloria (D)	Subdivision Map Act		Authorizes a city, county, or city and county, by ordinance, to provide for the creation of a small lot subdivision with the same requirements or if the ordinance requires smaller lots, less parking, or greater density. Makes limitations applicable to small lot subdivisions, as specified.	02/21/2020 - INTRODUCED.
<b><u>AB 3240</u></b> Gray (D)	Labor Disputes: Strike Pay		Prohibits an employer of 25 or more employees from terminating, reducing, or modifying the employer's contribution to an employee's health care coverage while the employee is engaged in	02/21/2020 - INTRODUCED.

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			a lawful strike. Excludes strike pay, as defined, from gross income for taxation purposes.	
<b><u>AB 3249</u></b> Fong (R)	Public Retirement: Controller: Annual Report		Requires the Controller to post the report on the financial condition of all state and local public retirement systems on the Controller's internet website.	02/21/2020 - INTRODUCED.
<b><u>AB 3252</u></b> Dahle M (R)	Safe Harbor Agreement Program Act		Increases the notice period to the landowner to at least 7 business days.	02/21/2020 - INTRODUCED.
<b><u>AB 3254</u></b> Limon (D)	Property Sales and Transfers		Makes a nonsubstantive change to water-conserving fixtures in residential and commercial real property.	02/21/2020 - INTRODUCED.
<b><u>AB 3260</u></b> Wicks (D)	Real Property: Water Conserving Plumbing Fixtures		Makes a nonsubstantive change to water-conserving plumbing fixtures.	02/21/2020 - INTRODUCED.
<b><u>AB 3265</u></b> McCarty (D)	Whistleblower Protection		Makes technical, nonsubstantive changes to those findings and declarations that state employees hold be free to report waste, fraud, abuse of authority, violation of law, or threat to public health without fear of retribution and that public servants best serve the citizenry when they can be candid and honest without reservation in conducting the people's business.	02/21/2020 - INTRODUCED.
<b><u>AB 3267</u></b> Smith C (D)	Fire Suppression Assessments		Makes nonsubstantive changes to the provision authorizing a local agency that provides fire suppression services to determine and levy an assessment.	02/21/2020 - INTRODUCED.
<b><u>AB 3279</u></b> Friedman (D)	California Environmental Quality Act		Repeals certain obsolete and duplicative provisions from The California Environmental Quality Act and makes nonsubstantive changes to certain other provisions.	02/21/2020 - INTRODUCED.
<b><u>AB 3281</u></b> Brough (R)	Worker Status: Independent Contractors		Includes as a contracting business for purposes of a business-to-business contracting relationship, or business that subject to	02/21/2020 - INTRODUCED.

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			specifies tax provisions relating to sale proprietorships on limited partnerships.	
<b><u>AB 3282</u></b> Wicks (D)	Local Agencies: Ordinances and Resolutions		Makes nonsubstantive changes to provisions of existing law specifying that when a county or city is required to take legislative action by resolution under statute.	02/21/2020 - INTRODUCED.
<b><u>AB 3290</u></b> Garcia E (D)	Subletting and Subcontracting Fair Practices Act		Provides that only prime contractor may request and initiate the substitution of a subcontractor listed in the original bid and that these provisions do not prevent an awarding authority from pursuing contractual remedies against a prime contractor.	02/21/2020 - INTRODUCED.
<b><u>AB 3296</u></b> Kiley (R)	California Environmental Quality Act: Documents		Requires the Department of Fish and Wildlife separately track and account for all revenues collected under specified filing fee provision and all costs incurred in its role as a responsible agency or trustee agency under CEQA.	02/21/2020 - INTRODUCED.
<b><u>AB 3297</u></b> Kiley (R)	California Environmental Quality Act		Makes nonsubstantive changes to provisions of the California Environmental Quality Act (CEQA).	02/21/2020 - INTRODUCED.
<b><u>AB 3316</u></b> Bloom (D)	Building Standards: Notice Requirements		Requires the California Building Standards Commission to mail notices of meetings with respect to its proposed action or any building standards at least 21 days before any meeting.	02/21/2020 - INTRODUCED.
<b><u>AB 3325</u></b> Brough (R)	California Environmental Quality Act		Makes a nonsubstantive change to the exemption from the California Environmental Quality Act, which requires a lead agency to prepare, or cause to be prepared, and certify completion of an environmental impact report on a project that is proposes to carry out or approve that may have a significant effect on the environment.	02/21/2020 - INTRODUCED.
<b><u>AB 3332</u></b> Chau (D)	Privacy		Makes a nonsubstantive change to The Information Practices Act of 1977 restricting the disclosure of personal information that is contained in public records and that would otherwise be public.	02/21/2020 - INTRODUCED.



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<b><u>AB 3334</u></b> Chen (R)	Professional Land Surveyors' Act		Makes nonsubstantive changes to the definition of land surveying purposes for the Professional Land Surveyors' Act.	02/21/2020 - INTRODUCED.
<b><u>AB 3336</u></b> Carrillo (D)	California Hazardous Substances Act		Makes nonsubstantive changes to the provision of The California Hazardous Substances Act that prohibits the manufacture, production, and preparation within the State of California of any package of a misbranded hazardous substance or banned hazardous substance.	02/21/2020 - INTRODUCED.
<b><u>AB 3339</u></b> Wicks (D)	Personal Information		Makes a nonsubstantive change to these provisions of existing law that grants consumers certain rights in regard to businesses that collect personal information about them, including the right to know what information is collected and the right to opt-out of the sale of that information.	02/21/2020 - INTRODUCED.
<b><u>AB 3352</u></b> Friedman (D)	Tenant Remedies		Authorizes a tenant in the circumstances when the landlord fails to make repairs on dilapidations that makes the premises untenable to make the repairs themselves within a reasonable time if the cost of the repairs does not require expenditure of more than two month's rent.	02/21/2020 - INTRODUCED.
<b><u>ACA 3</u></b> Mathis (R)	Clean Water for All Act	WATCH	Requires not less than a certain percent of specified state revenues to be set apart for the payment of principal and interest on bonds authorized pursuant to the Water Quality, Supply, and Infrastructure Improvement Act. Relates to water supply, delivery, and quality projects administered by the Department of Water Resources and water quality projects administered by the State Water Resources Control Board.	04/30/2019 - In ASSEMBLY Committee on WATER, PARKS AND WILDLIFE: Failed passage.;04/30/2019 - In ASSEMBLY Committee on WATER, PARKS AND WILDLIFE: Reconsideration granted.
<b><u>SB 43</u></b> Allen (D)	Carbon Intensity and Pricing: Retail Products		Requires the state board, no later than January 1, 2022, to submit a report to the Legislature on the findings from a study, as specified, to determine the feasibility and practicality of assessing the carbon intensity of all retail products subject to the tax imposed pursuant	07/08/2019 - In ASSEMBLY Committee on REVENUE AND TAXATION: Failed passage.;07/08/2019 - In ASSEMBLY

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			to the Sales and Use Tax Law, so that the total carbon equivalent emissions associated with such retail products can be quantified.	Committee on REVENUE AND TAXATION: Reconsideration granted.
<b>SB 45</b> Allen (D)	Wildfire Prevention, Drinking Water, Drought, and Flood		Enacts the Wildfire Prevention, Safe Drinking Water, Drought Preparation, and Flood Protection Bond Act, which, if approved by the voters, would authorize the issuance of bonds to the State General Obligation Bond Law to finance projects for a wildfire prevention, safe drinking water, drought preparation, and flood protection program.	01/29/2020 - In SENATE. Read third time, urgency clause adopted. Passed SENATE. *****To ASSEMBLY.
<b>SB 69</b> Wiener (D)	Ocean Resiliency Act		Requires the Department of Fish and Wildlife to develop and implement a plan, in collaboration with specified scientists, experts, and representatives, as part of its fish hatchery operations for the improvement of the survival of hatchery-produced salmon, and the increased contribution of the hatchery program to commercial and recreational salmon fisheries.	08/30/2019 - In ASSEMBLY Committee on APPROPRIATIONS: Held in committee.
<b>SB 101</b> Budget and Fiscal Review Cmt	Drinking Water		Establishes the Safe and Affordable Drinking Water Fund in the State Treasury to help water systems provide an adequate and affordable supply of safe drinking water in both the near and the long terms. Prohibits a person from operating a public water system unless the person first submits an application to the state board and receives a permit to operate the system.	06/24/2019 - From ASSEMBLY Committee on BUDGET with author's amendments.;06/24/2019 - In ASSEMBLY. Read second time and amended. Re-referred to Committee on BUDGET.
<b>SB 162</b> Galgiani (D)	State Board Of Equalization: Local Voter Approved Bond		Requires, by January 1, 2022, and January 1 of each year thereafter, a local agency to transmit specified data related to the issuance of any bonds by that local agency pursuant to the authorization of any local bond act, as defined, to the State Board of Equalization, including the amount of debt authorized by the local bond act.	06/19/2019 - From ASSEMBLY Committee on REVENUE AND TAXATION with author's amendments.;06/19/2019 - In ASSEMBLY. Read second time and amended. Re-referred to Committee on REVENUE AND TAXATION.
<b>SB 166</b> Wiener (D)	Process Water Treatment Systems: Breweries		Requires the State Water Resources Control Board, in consultation with the State Department of Public Health, Food and Drug Branch, to adopt regulations for microbiological, chemical, and	08/30/2019 - In ASSEMBLY Committee on APPROPRIATIONS: Held in committee.

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			physical water quality and treatment requirements for voluntary onsite treatment and reuse of process water in breweries. Requires the Food and Drug Branch to consult with the State Board before requiring termination of a process water treatment system.	
<b><u>SB 204</u></b> Dodd (D)	State Water Project: Contracts	WATCH	Requires the Department of Water Resources to provide at least 10 days' notice to the Joint Legislative Budget Committee and relevant policy and fiscal committees of the Legislature before holding public sessions to negotiate any potential amendment of a long-term water supply contract that is of projectwide significance with substantially similar terms intended to be offered to all contractors, or that would permanently transfer a contractual water amount between contractors.	06/06/2019 - To ASSEMBLY Committee on WATER, PARKS AND WILDLIFE.
<b><u>SB 216</u></b> Galgiani (D)	Carl Moyer Memorial Air Quality Standards Attainment		Adds as an eligible project under the Carl Moyer Memorial Air Quality Standards Attainment Program, a used heavy-duty truck exchange. Requires the state board to hold a public workshop on the heavy-duty truck exchange and develop a plan to help air pollution control and air quality management districts add a heavy-duty truck exchange as an eligible project under the program.	08/30/2019 - In ASSEMBLY Committee on APPROPRIATIONS: Held in committee.
<b><u>SB 226</u></b> Nielsen (R)	Watershed Restoration: Wildfires: Grant Program		Requires the Natural Resources Agency to develop and implement a watershed restoration grant program for purposes of awarding grants to private property land owners to assist them with watershed restoration on watersheds that have been affected by wildfire. Requires the agency to provide technical resources to the private property land owners seeking assistance with watershed restoration.	08/30/2019 - In ASSEMBLY Committee on APPROPRIATIONS: Held in committee.
<b><u>SB 266</u></b> Leyva (D)	Public Employees Retirement: Disallowed Compensation		Establishes new procedures under the Public Employee Retirement Law for cases in which PERS determines that the benefits of a member or annuitant are, or would be, based on compensation that conflicts with the Public Employees Pension Reform Act, and other specified laws and thus impermissible under PERL. Applies	09/13/2019 - Withdrawn from Enrollment.;09/13/2019 - In SENATE. Held at desk.

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			procedures retroactively to determinations made on or after a certain date, if an appeal has been filed and the employee member, survivor, or beneficiary has not exhausted specified remedies.	
<b><u>SB 287</u></b> Nielsen (R)	Commission on State Mandates: Test Claims: Filing Date		Relates to the filing date on test claims for the Commission on State Mandates. Specifies that for purposes of filing a test claim based on the date of incurring increased costs, "within 12 months" means by June 30 of the fiscal year following the fiscal year in which increased costs were first incurred by the test claimant.	08/30/2019 - In ASSEMBLY Committee on APPROPRIATIONS: Held in committee.
<b><u>SB 378</u></b> Wiener (D)	Electrical Corporations: Deenergization Events		Requires each electrical corporation to annually submit a report to the Wildfire Safety Division and to the Office of Energy Infrastructure Safety, that includes specified information. Requires the Public Utilities Commission to establish a procedure for customers, local governments, and others affected by a deenergization event to recover costs during such an event from an electrical corporation, within specified time periods. Sets civil penalties.	01/27/2020 - In SENATE. Read third time. Passed SENATE. *****To ASSEMBLY.
<b><u>SB 414</u></b> Caballero (D)	Small System Water Authority Act of 2019	SUPPORT	Creates the Small System Water Authority Act of 2019 and states legislative findings and declarations relating to authorizing the creation of small system water authorities that will have powers to absorb, improve, and competently operate noncompliant public water systems.	08/30/2019 - In ASSEMBLY Committee on APPROPRIATIONS: Held in committee.
<b><u>SB 474</u></b> Stern (D)	Habitat Conservation Fund		Relates to the State Wildlife Protection Act of 1990. Establishes the Wildlife Protection Subaccount in the Habitat Conservation Fund and would require the Controller, if an appropriation is made for this purpose in any fiscal year, to transfer \$30,000,000 from the General Fund to the subaccount, less any amount transferred from specified accounts and funds, to be expended by the board for the acquisition, enhancement, or restoration of wildlife habitat.	06/06/2019 - To ASSEMBLY Committee on WATER, PARKS AND WILDLIFE.

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<b><u>SB 479</u></b> Atkins (D)	Tenancy: Automatic Renewal or Extension of Lease		Requires the renewal or extension provision and the recital of a lease agreement to appear in a certain boldface type.	08/15/2019 - In ASSEMBLY. From third reading. To Inactive File.
<b><u>SB 535</u></b> Moorlach (R)	Greenhouse Gases: Wildfires and Forest Fires		Requires the report to include information, if feasible, regarding the greenhouse gas, criteria air pollutant, and short-lived climate pollutant emissions from wildfires and forest fires, an assessment of the increased severity of wildfires and forest fires from the impacts of climate change, and a calculation of the increase in the emissions of criteria air pollutants, greenhouse gases, and short-lived climate pollutants based on the increased severity of wildfires and forest fires assessed.	08/30/2019 - In ASSEMBLY Committee on APPROPRIATIONS: Held in committee.
<b><u>SB 559</u></b> Hurtado (D)	California Water Commission: Grant: Friant-kern Canal		Appropriates funds to the Department of Water Resources for the purposes of restoring the Friant-kern Canal to its full capacity. Requires the grant to be part of a comprehensive solution to groundwater sustainability and subsidence in the San Joaquin Valley and would require the joint powers authority to demonstrate a funding match of at least 35% from user fees, local sources, federal funding, or a combination of these sources.	08/30/2019 - In ASSEMBLY Committee on APPROPRIATIONS: Held in committee.
<b><u>SB 668</u></b> Rubio (D)	Fire Hydrants: Water Suppliers: Regulations		Requires an urban water supplier, to review and revise its emergency response plan as required by federal law. Requires the Office of Emergency Services to establish emergency response and recovery plans in coordination with urban water suppliers.	09/12/2019 - In ASSEMBLY. To Inactive File.
<b><u>SB 749</u></b> Durazo (D)	State Public Records Act: Trade Secrets		Provides that specified records of a private industry employer that are prepared, owned, used, or retained by a public agency are not trade secrets and are public records, including certain records relating to employment terms and conditions of employees working for a private industry employer pursuant to a contract with a public agency, under specified conditions. Excludes certain contracts between a public agency and private employer entered into before a specified date.	09/13/2019 - In ASSEMBLY. To Inactive File.

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<b><u>SB 773</u></b> Skinner (D)	Land Use: Accessory Dwelling Units		Deems a permit application for the creation of an accessory dwelling unit or junior accessory dwelling unit approved if the local agency has not acted upon the completed application within 60 days.	01/27/2020 - In SENATE. Read third time. Passed SENATE. *****To ASSEMBLY.
<b><u>SB 774</u></b> Stern (D)	Electricity: Microgrids		Requires each electrical corporation to collaborate with certain entities in its service territory to identify locations where sources of back-up electricity may provide increased electrical distribution grid resiliency. Authorizes electrical corporations to file applications with the Public Utilities Commission to invest in, and deploy, microgrids to increase that resiliency and prohibits the Commission from approving microgrid applications that use a certain cost-recovery mechanism.	06/06/2019 - To ASSEMBLY Committee on UTILITIES AND ENERGY.
<b><u>SB 794</u></b> Jackson (D)	Emergency Services: Telecommunications		Expands provisions authorizing a city to enter into an agreement to access contact information of resident account holders through the records of a public utility, expands the types of public utilities that can enter into agreements by defining public utility to include a local publicly owned electric utility, mobile telephony service, a public water agency, and an agency responsible for solid waste or recycling services.	02/25/2020 - From SENATE Committee on GOVERNMENTAL ORGANIZATION with author's amendments.;02/25/2020 - In SENATE. Read second time and amended. Re-referred to Committee on GOVERNMENTAL ORGANIZATION.
<b><u>SB 797</u></b> Wilk (R)	Water Resources: Permit to Appropriate: Applications		Provides that if the State Water Resources Control Board has not rendered a final determination on an application for a permit to appropriate water within 30 years from the date the application was filed, the board is required to issue a new notice and provide an opportunity for protests before rendering a final determination.	01/15/2020 - To SENATE Committee on NATURAL RESOURCES AND WATER.
<b><u>SB 801</u></b> Glazer (D)	Electrical Corporations: Wildfire Mitigation Plans		Requires an electrical corporation to deploy backup electrical resources or provide financial assistance for backup electrical resources to a customer receiving a medical baseline allowance, if the customer meets specified conditions.	01/15/2020 - To SENATE Committee on ENERGY, UTILITIES AND COMMUNICATIONS.

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<b><u>SB 850</u></b> Leyva (D)	Work Hours: Scheduling		Relates to scheduling work hours.	01/22/2020 - To SENATE Committees on LABOR, PUBLIC EMPLOYMENT AND RETIREMENT and JUDICIARY.
<b><u>SB 861</u></b> Nielsen (R)	Public Utilities: Rates		Makes nonsubstantive changes in existing law which requires a public utility to furnish and maintain such adequate, efficient, just, and reasonable service, equipment, and facilities as are necessary to promote the safety, health, and convenience of its patrons, employees, and the public.	01/30/2020 - To SENATE Committee on RULES.
<b><u>SB 862</u></b> Dodd (D)	Planned Power Outage: Public Safety		Includes a planned deenergization event within the conditions constituting a state of emergency and a local emergency under the California Emergency Services Act. Requires an electrical corporation, as part of its public safety mitigation protocols, to include protocols that deal specifically with access and functional need individuals, including those individuals who are enrolled in the Alternative Rates for Energy program.	01/30/2020 - To SENATE Committee on ENERGY, UTILITIES AND COMMUNICATIONS.
<b><u>SB 865</u></b> Hill (D)	Excavations: Subsurface Installations		Provides that the California Underground Facilities Safe Excavation Board is also known as the Dig Safe Board and makes specified changes to the act. Requires the board to be within the Office of Energy Infrastructure Safety within the Natural Resources Agency.	01/30/2020 - To SENATE Committee on GOVERNMENTAL ORGANIZATION.
<b><u>SB 923</u></b> Wilk (R)	Emergency Services		Makes a nonsubstantive change to the provision requiring the Governor to assign all or part of the Governor's powers and duties under the Emergency Services Act to the Office of Emergency Services.	02/12/2020 - To SENATE Committee on RULES.
<b><u>SB 931</u></b> Wieckowski (D)	Local Government Meetings: Agenda and Documents		Relates to agendas and documents for local government meetings. Requires a legislative body to email a copy of the agenda or a copy of all the documents constituting the agenda packet if so requested.	02/12/2020 - To SENATE Committee on GOVERNANCE AND FINANCE.

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<b><u>SB 937</u></b> Hill (D)	State Agencies: Web Accessibility		Authorizes a state agency to temporarily remove public documents from digital access if a justifiable impediment exists and the Director of Technology verifies the impediment prohibits full compliance and the state agency complies with certain requirements, including citing the reason for the document's removal and listing options and instructions for how to access the document offline.	02/20/2020 - To SENATE Committees on GOVERNMENTAL ORGANIZATION and JUDICIARY.
<b><u>SB 950</u></b> Jackson (D)	California Environmental Quality Act		Makes technical, nonsubstantive changes to the California Environmental Quality Act.	02/20/2020 - To SENATE Committee on RULES.
<b><u>SB 952</u></b> Nielsen (R)	Sales and Use Tax: Exemptions: Electrical Backup		Provides an exemption, as specified, from sales and use tax laws with respect to the sale of, or the storage, use, or consumption of, a backup electrical resource that is purchased for exclusive use by a city, county, special district, or other entity of local government during deenergization events.	02/20/2020 - To SENATE Committee on GOVERNANCE AND FINANCE.
<b><u>SB 953</u></b> Wiener (D)	Customer Sited Renewable Energy Storage Systems		Requires the Public Utilities Commission or the governing board of a local publicly owned electric utility to ensure that customers within its jurisdiction who have customer sited renewable energy or energy storage systems are not subject to discriminatory fees or charges levied as a result of installing or using those customer sited renewable energy or energy storage systems.	02/20/2020 - To SENATE Committee on ENERGY, UTILITIES AND COMMUNICATIONS.
<b><u>SB 964</u></b> Skinner (D)	Greenhouse Gas Reduction Fund: Investment Plan		Makes nonsubstantive changes to the provisions related to the expenditure of moneys appropriated from the Greenhouse Gas Reduction Fund.	02/20/2020 - To SENATE Committee on RULES.
<b><u>SB 971</u></b> Hertzberg (D)	Small Water Supplier and Countywide Water Shortages		Requires a small water supplier to prepare and adopt a small water supplier water shortage contingency plan that consists of specified elements. Requires a small water supplier with a specified number of service connections to take specified actions related to water shortage planning and response. Requires small water suppliers to	02/20/2020 - To SENATE Committees on NATURAL RESOURCES AND WATER and GOVERNANCE AND FINANCE.



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			provide to the public and to report, the plan and specified water shortage planning information.	
<b>SB 974</b> Hurtado (D)	California Environmental Quality Act: Water Systems		Exempts from CEQA certain projects that benefit a small community water system that primarily serves one or more disadvantaged communities or that benefit a nontransient noncommunity water system that serves a school that serves one or more disadvantaged communities, by improving the small community water system's or nontransient noncommunity water system's water quality, water supply, or water supply reliability, or by encouraging water conservation.	02/20/2020 - To SENATE Committee on ENVIRONMENTAL QUALITY.
<b>SB 982</b> Hill (D)	Public Utilities		States the Legislature's intent to enact legislation relating to public utilities.	02/20/2020 - To SENATE Committee on RULES.
<b>SB 986</b> Allen (D)	Coastal Resources: New Development: Greenhouse Gases		Requires that new development under the California Coastal Act of 1976 minimize greenhouse gas emissions as specified.	02/20/2020 - To SENATE Committee on NATURAL RESOURCES AND WATER.
<b>SB 996</b> Portantino (D)	State Water Resources Control Board: Constituents		Requires the State Water Resources Control Board to establish by an unspecified date and then maintain an ongoing, dedicated program called the Constituents of Emerging Concern Program to support and conduct research to develop information and, if necessary, provide recommendations to the state board on constituents of emerging concern in drinking water that may pose risks to public health.	02/13/2020 - INTRODUCED.
<b>SB 997</b> Borgeas (R)	Administrative regulations		Makes nonsubstantive changes to findings and declarations of administrative regulation.	02/13/2020 - INTRODUCED.
<b>SB 998</b> Moorlach (R)	Local Government: Investment		Establishes distinctions in local agencies in connection with their investment in commercial paper. Prohibits local agencies that have less than a specified investment assets under management investing more than 25% of their moneys in eligible commercial paper.	02/13/2020 - INTRODUCED.

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<b><u>SB 1006</u></b> Bates (R)	Building Standards		Makes a nonsubstantive change to provisions of the California Building Standards Law.	02/14/2020 - INTRODUCED.
<b><u>SB 1010</u></b> Jackson (D)	Privacy		Makes a nonsubstantive change to the Information Practices Act of 1977.	02/14/2020 - INTRODUCED.
<b><u>SB 1011</u></b> Dahle (R)	Water Quality: Waste Discharge: Fees: Report		Makes a nonsubstantive change to the Porter Cologne Water Quality Control Act.	02/14/2020 - INTRODUCED.
<b><u>SB 1020</u></b> Dahle (R)	Income Taxes: Credits: Generators		Allows a credit against the personal income and corporation taxes for each year to a taxpayer that purchases a backup power generator for use in a residence or commercial property located in a high fire threat district not to exceed a specified amount. Limits the total amount of credits allows and requires the credits be allocated on a first come first served basis.	02/14/2020 - INTRODUCED.
<b><u>SB 1039</u></b> Galgiani (D)	Independent Workers		Enacts the Independent Worker Rights Act and sets forth legislative findings regarding the intent of the Legislature to develop a modern policy framework that facilitates independent work for those who voluntarily choose it by creating a third classification of workers with basic rights and protections relative to work opportunities, including minimum wage and occupational accident coverage.	02/14/2020 - INTRODUCED.
<b><u>SB 1044</u></b> Allen (D)	Firefighting Equipment and Foam: PFAS Chemicals		Requires any person, including a manufacturer, that sells firefighter personal protective equipment to any person or public entity to provide a written notice to the purchaser at the time of sale if the firefighter personal protective equipment contains perfluoroalkyl and polyfluoroalkyl substances. Provides that a violation of this requirement is punishable by a specified civil penalty.	02/18/2020 - INTRODUCED.
<b><u>SB 1046</u></b> Dahle (R)	California Endangered Species Act: Species Review		Makes nonsubstantive changes to provisions of the California Endangered Species Act.	02/18/2020 - INTRODUCED.

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<b><u>SB 1052</u></b> Hertzberg (D)	Water Quality: Municipal Wastewater Agencies		Establishes municipal wastewater agencies. Authorizes a municipal wastewater agency, among other things, to enter into agreements with entities responsible for stormwater management for the purpose of managing stormwater and dry weather runoff, to acquire, construct, expand, operate, maintain, and provide facilities for specified purposes relating to managing stormwater and dry weather runoff, and to levy taxes, fees, and charges.	02/18/2020 - INTRODUCED.
<b><u>SB 1056</u></b> Portantino (D)	Drinking Water: Testing: Per/Polyfluoroalkyl substances		Requires the State Water Resources Control Board to certify a methodology or methodologies for testing drinking water, groundwater, and surface water for perfluoroalkyl and polyfluoroalkyl substances and to accredit qualified laboratories in California to analyze perfluoroalkyl and polyfluoroalkyl substances pursuant to the adopted methodology or methodologies.	02/18/2020 - INTRODUCED.
<b><u>SB 1067</u></b> Moorlach (R)	Local Agencies: Refunding Bonds		Revises the definition of “bonds” in connection with issuing refunding bonds to specify that it does not mean bonds to be issued, on and after January 1, 2021, for the purpose of funding pension obligations.	02/18/2020 - INTRODUCED.
<b><u>SB 1069</u></b> Jackson (D)	Emergencies: Critical Communications Infrastructure		Requires each provider of telecommunications service to notify local emergency management officials about the location and status of the provider’s critical communications infrastructure provide to the local incident command upon the declaration of an emergency of natural disaster the name and contact information for, and make available upon request, an official representative of the provider able to assist local emergency operations.	02/18/2020 - INTRODUCED.
<b><u>SB 1096</u></b> Caballero (D)	Water and Sewer System Corporations: Consolidations		Authorizes a water or sewer system corporation to file an application and obtain approval from the Public Utilities Commission through an order authorizing the water or sewer system corporation to consolidate with a public water system or state small water system. Requires the Commission to approve or deny the application within nine months, except as provided.	02/19/2020 - INTRODUCED.

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<b><u>SB 1099</u></b> Dodd (D)	Emergency Backup Generators: Critical Facilities		Requires air districts to adopt a rule, or revise its existing rules, to allow critical facilities with a permitted emergency backup generator to use that emergency backup generator during a deenergization event or other loss of power, and to test and maintain that emergency backup generator without having that usage, testing, or maintenance count toward that emergency backup generator's time limitation on actual usage and routine testing and maintenance.	02/19/2020 - INTRODUCED.
<b><u>SB 1100</u></b> Atkins (D)	Coastal Resources: Sea Level Rise		Includes, as part of the procedures the California Coastal Commission is required to adopt, recommendations and guidelines for the identification, assessment, minimization, and mitigation of sea level rise within each local coastal program. Deletes the timeframe by which the Commission is required to adopt these procedures. Requires the Commission to take into account the effects of sea level rise in coastal resource planning and management policies and activities.	02/19/2020 - INTRODUCED.
<b><u>SB 1101</u></b> Caballero (D)	Water and Climate Science Advisory Board		Requires the Department of Water Resources to convene a Water and Climate Science Advisory Board to consist of an unspecified number of members with certain qualifications, appointed by an unspecified method, serving no more than an unspecified number of terms of unspecified length. Requires the Department to consult with the board when initiating, reviewing, or expanding policies or guidelines regarding impacts of climate change on water resources.	02/19/2020 - INTRODUCED.
<b><u>SB 1113</u></b> Gonzalez (D)	State Air Resources Board: Report		Makes nonsubstantive changes to a provision relating to the effectiveness of state and local air quality programs.	02/19/2020 - INTRODUCED.
<b><u>SB 1129</u></b> Dodd (D)	Employment: Itemized Wage Statements: Violations		Requires an employee alleging a violation of itemized wage statement provisions to meet specified requirements before bringing action against the employer, which would include providing written notice by certified mail to the employer of the	02/19/2020 - INTRODUCED.

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Bill No. Author	Title	IRWD Position	Summary/Effects	Status
			alleged violation, including the facts and theories to support alleged violations, and would allow the employer 65 calendar days of the postmark date of the notice to cure the violation.	
<b><u>SB 1135</u></b> Hertzberg (D)	Settlement Agreements: Confidentiality		Relates to existing law which provides that a court may consider findings of the court in determining the factual foundation of causes of action for sexual assault or sexual harassment. Deletes the specific authorization that a court may consider other findings of the court.	02/19/2020 - INTRODUCED.
<b><u>SB 1159</u></b> Hill (D)	Wages		Makes nonsubstantive changes to the definitions of "wages" and "labor".	02/20/2020 - INTRODUCED.
<b><u>SB 1171</u></b> Nielsen (R)	Water: Reclamation Districts		Makes nonsubstantive changes in the provision relating to the formation of a reclamation district within a city.	02/20/2020 - INTRODUCED.
<b><u>SB 1184</u></b> Stern (D)	Water Corporations: Fire Hydrant Service Agreements		Requires the Public Utilities Commission prepare and submit to the Legislature a report concerning agreements between water corporations and local fire protection agencies.	02/20/2020 - INTRODUCED.
<b><u>SB 1185</u></b> Moorlach (R)	Natural Gas Powered Generators: Deenergization Events		Prohibits an air district from adopting or maintaining a rule that would limit or prohibit any person from using a federally compliant natural gas powered generator during a deenergization event. Requires that any usage during a deenergization event not count toward any time limitation on actual usage and routine testing and maintenance included as a condition for issuance of any permit for that generator.	02/20/2020 - INTRODUCED.
<b><u>SB 1188</u></b> Stern (D)	The California Water Plan		Relates to The California Water Plan. Requires the Department of Water Resources to include in the plan for the orderly and coordinated control protection, conservation, development, and use of the water resources of the state update instead of discussion of various strategies, a discussion of various strategies for increasing regional water resilience.	02/20/2020 - INTRODUCED.

**IRWD 2020 LEGISLATIVE MATRIX**  
**Updated 02/27/2020**

<b>Bill No. Author</b>	<b>Title</b>	<b>IRWD Position</b>	<b>Summary/Effects</b>	<b>Status</b>
<b><u>SB 1192</u></b> Bradford (D)	Fire Insurance: Indemnity		Relates to fire insurance. Makes technical, nonsubstantive changes to provisions of existing law defining the measure of indemnity for a loss on an open fire insurance policy.	02/20/2020 - INTRODUCED.
<b><u>SB 1194</u></b> Archuleta (D)	Water Replenishment Districts: Competitive Bidding		Revises and recasts the provisions establishing the competitive bidding and related public notice procedures for water replenishment districts, including, among other revisions, deleting the requirement that a district advertise for bids before making any contract totaling \$25,000 or more within any 12-month period, and instead requiring a district to advertise for bids before making any contract totaling \$40,000 or more.	02/20/2020 - INTRODUCED.
<b><u>SB 1205</u></b> Hertzberg (D)	Local Agency Design-Build Projects		Makes a nonsubstantive change to provisions relating to the design-build method of project delivery, using a best value procurement methodology, which has been authorized for various agencies that have reported benefits from those projects.	02/20/2020 - INTRODUCED.
<b><u>SB 1208</u></b> Monning (D)	Fish and Wildlife: Taking Possession		Makes nonsubstantive change to provisions relating to the existing law which makes it unlawful to take any bird, mammal, fish, reptile, or amphibian except as provided in the Fish and Game Code or regulations adopted pursuant to that code.	02/20/2020 - INTRODUCED.
<b><u>SB 1209</u></b> Dahle (R)	Watermaster Service Areas: Expenses in Distribution		Makes a nonsubstantive change to provisions relating to the purpose of distributing water in accordance with certain water right determinations.	02/20/2020 - INTRODUCED.
<b><u>SB 1215</u></b> Stern (D)	Electricity: Microgrids: Grant Program		Establishes the Local Government Deenergization Event Resiliency Program, to be administered by the Office of Emergency Services, to support state and local government efforts to enhance public safety, protect vulnerable populations and individuals, and improve resiliency in response to deenergization events.	02/20/2020 - INTRODUCED.

**IRWD 2020 LEGISLATIVE MATRIX**  
**Updated 02/27/2020**

<b>Bill No. Author</b>	<b>Title</b>	<b>IRWD Position</b>	<b>Summary/Effects</b>	<b>Status</b>
<b><u>SB 1217</u></b> Dahle (R)	Urban Water Use Targets: Indoor Residential Water Use		Revises the method of estimating the per capita daily water use to require an urban retail water supplier to use, instead of 55 gallons per capita daily for indoor residential use, a standard that complies with the urban retail water supplier's own criteria for indoor residential water use.	02/20/2020 - INTRODUCED.
<b><u>SB 1224</u></b> Dahle (R)	Property Assessed Clean Energy Program		Makes nonsubstantive changes to provisions of the Property Assessed Clean Energy (PACE) program. Authorizes public agency officials and property owners to enter into voluntary contractual assessments to finance the installation of distributed generation renewable energy sources or energy or water efficiency improvements that are permanently fixed to real property.	02/20/2020 - INTRODUCED.
<b><u>SB 1228</u></b> Caballero (D)	Adoption of Regulations		Makes nonsubstantive changes to provisions of the Office of Administrative Law. Sets forth its powers and duties including the review and approval of regulations proposed for adoption by state agencies.	02/20/2020 - INTRODUCED.
<b><u>SB 1234</u></b> Grove (R)	Water Rights: Reasonable and Beneficial Use of Water		Makes nonsubstantive changes to a provision related to water rights.	02/20/2020 - INTRODUCED.
<b><u>SB 1236</u></b> Stern (D)	Worker Status: Independent Contractors		Makes nonsubstantive changes to provision of the "ABC" test, to determine if workers are employees or independent contractors.	02/20/2020 - INTRODUCED.
<b><u>SB 1241</u></b> Gonzalez (D)	Discrimination in Employment: Employment Tests		Creates a presumption that an employer's decision relating to hiring or promotion based on a test or other selection procedure is not discriminatory, if the test or procedure meets specified criteria, including, among other things, that it is job related and meets a business necessity, as defined by the bill for purposes of these provisions and specified existing law, and that the test or procedure utilizes pretested assessment technology.	02/20/2020 - INTRODUCED.
<b><u>SB 1249</u></b> Hurtado (D)	Water Resources Control Board		Requires the State Water Resources Control Board to provide that notice at least 30 days before the hearing and would instead require	02/21/2020 - INTRODUCED.

**IRWD 2020 LEGISLATIVE MATRIX**  
**Updated 02/27/2020**

<b>Bill No. Author</b>	<b>Title</b>	<b>IRWD Position</b>	<b>Summary/Effects</b>	<b>Status</b>
			the regional boards to submit the recommendations at least 25 days before the hearing.	
<b><u>SB 1280</u></b> Monning (D)	State Water Resources Control Board		Authorizes the State Water Resources Control Board to order consolidation between a receiving water system and an at-risk water system upon receipts of a petition that substantially conforms to the above-referenced policy adopted by the state board and that is either approved by the water system's governing body or signed by at least 30% of the households served by the water system.	02/21/2020 - INTRODUCED.
<b><u>SB 1293</u></b> Allen (D)	Integrated Climate Adaptation Resiliency Program		Protects the public and coastal resources from the threat of sea level rise and increased storm surge brought forth by climate change. Creates a revolving loan fund to allow local governments to purchase threatened coastal properties for leasing purposes.	02/21/2020 - INTRODUCED.
<b><u>SB 1314</u></b> Dodd (D)	Community Energy Resilience Act of 2020		Requires the council to develop and implement a grant program for local governments to develop. Requires a plan to ensure a reliable electricity supply is maintained at critical facilities and identify areas most likely to experience a loss of electrical service.	02/21/2020 - INTRODUCED.
<b><u>SB 1331</u></b> Bradford (D)	Local Government: Overtime Enforcement		Increases the amount of civil penalties for violations by employers of provisions relating to local overtime law.	02/21/2020 - INTRODUCED.
<b><u>SB 1349</u></b> Glazer (D)	State Responsibility Area Fire Prevention Fees		Changes the reference in the fire prevention fee provisions from the State Board of Equalization to the California Department of Tax and Fee Administration or the Office of Tax Appeals as appropriate.	02/21/2020 - INTRODUCED.
<b><u>SB 1352</u></b> Hueso (D)	Biomethane Procurement		Requires the Public Utilities Commission to establish a biomethane procurement program that requires each gas corporation, by January 1, 2030, to procure at least 20 percent of its total volume of gas delivered to core customers in California with biomethane.	02/21/2020 - INTRODUCED.



**IRWD 2020 LEGISLATIVE MATRIX**  
**Updated 02/27/2020**

<b>Bill No. Author</b>	<b>Title</b>	<b>IRWD Position</b>	<b>Summary/Effects</b>	<b>Status</b>
<b><u>SB 1356</u></b> Borgeas (R)	Groundwater Sustainability Agency: Financial Authority		Makes nonsubstantive changes to the provisions of the Sustainable Groundwater Management Act to authorize groundwater sustainability agencies to impose fees.	02/21/2020 - INTRODUCED.
<b><u>SB 1359</u></b> Rubio (D)	Wildfire Insurance		Requires the Insurance Commission on or before specific date, to convene a stakeholder group to consider the actuarial soundness of residential property insurance rates, taking into consideration current wildfire risks to residential properties and communities.	02/21/2020 - INTRODUCED.
<b><u>SB 1362</u></b> Stern (D)	Carbon Neutrality: Comprehensive Strategy		Requires the State Air Resources Board no later than July 1, 2021, to adopt a comprehensive strategy to achieve carbon neutrality in the state by no later than December 31, 2045.	02/21/2020 - INTRODUCED.
<b><u>SB 1363</u></b> Allen (D)	Comprehensive Strategy		Requires the State Air Resources Board no later than July 1, 2021, to adopt a comprehensive strategy to achieve carbon neutrality in the state by no later than December 31, 2045.	02/21/2020 - INTRODUCED.
<b><u>SB 1368</u></b> Durazo (D)	Protected Employee Conduct		Makes nonsubstantive changes to the provisions of existing law that prohibits a person from discharging an employee or in any manner discriminating, retaliating, or taking any adverse action against any employee or applicant for employment because the employee or applicant engaged in protected conduct.	02/21/2020 - INTRODUCED.
<b><u>SB 1372</u></b> Monning (D)	Wildlife and Biodiversity Protection and Movement		Enacts the Wildlife and Biodiversity Protection and Movement Act of 2020 to proactively protect and enhance wildlife corridors and design infrastructure to maximize wildlife connectivity.	02/21/2020 - INTRODUCED.
<b><u>SB 1378</u></b> Borgeas (R)	California Environmental Quality Act		Requires a plaintiff or petitioner, in an action or proceeding brought pursuant to California Environmental Quality Act to disclose the identity of a person or entity that contributes \$1,000 or more toward the plaintiff's or petitioner's costs of the action or proceedings.	02/21/2020 - INTRODUCED.

**IRWD 2020 LEGISLATIVE MATRIX**  
**Updated 02/27/2020**

<b>Bill No. Author</b>	<b>Title</b>	<b>IRWD Position</b>	<b>Summary/Effects</b>	<b>Status</b>
<b><u>SB 1383</u></b> Jackson (D)	Local Government		Makes nonsubstantive changes to the provision of existing law that requires the auditor of a county to examine and settle the accounts of any persons indebted to the county or holding money payable into the county treasury, and to certify the amount to the treasurer.	02/21/2020 - INTRODUCED.
<b><u>SB 1386</u></b> Moorlach (R)	Local Government		Makes a nonsubstantive change to the provision of the Cortese-Knox-Hertzberg Local Government Reorganization Act of 2020 that provides the exclusive authority and procedure for the initiation, conduct, and completion of changes of organization for cities and districts.	02/21/2020 - INTRODUCED.
<b><u>SB 1388</u></b> Rubio (D)	State Water Resources Control Board		Makes nonsubstantive changes in the provisions relating to the authorization of the State Water Resources Control Board to take testimony in regard to the rights to water or the use of water, and to ascertain whether or not water is appropriated under the law and ascertains whether water has been appropriated.	02/21/2020 - INTRODUCED.
<b><u>SB 1389</u></b> Allen (D)	Public Investment Authorities		Authorizes the legislative body of a city or county, or of 2 or more cities acting jointly, to propose the formation of a public investment authority and the adoption of a community investment and financing plan.	02/21/2020 - INTRODUCED.
<b><u>SB 1399</u></b> Durazo (D)	Workers' Compensation Definitions		Makes a technical, nonsubstantive change to a provision governing the meaning of terms in workers' compensation.	02/21/2020 - INTRODUCED.
<b><u>SB 1422</u></b> Bradford (D)	Public Utilities: Microgrids		Includes microgrids as one of the categories for purposes of the annual submission of procurement data to the Public Utilities Commission.	02/21/2020 - INTRODUCED.
<b><u>SB 1436</u></b> Grove (R)	Political Reform Act of 1974		Makes a technical, nonsubstantive changes to the provision of the Political Reform Act of 1974 relating to post-government employment of legislators.	02/21/2020 - INTRODUCED.

**IRWD 2020 LEGISLATIVE MATRIX**  
**Updated 02/27/2020**

<b>Bill No. Author</b>	<b>Title</b>	<b>IRWD Position</b>	<b>Summary/Effects</b>	<b>Status</b>
<b><u>SB 1453</u></b> Durazo (D)	Surplus Residential Property		Makes nonsubstantive changes to provisions that establish priorities and procedures that any state agency disposing of surplus residential property is required to follow.	02/21/2020 - INTRODUCED.
<b><u>HR 353</u></b> Yoho (R)	Taiwan World Health Organization Observer Status		Directs the Secretary of State to develop a strategy to regain observer status for Taiwan in the World Health Organization.	01/23/2019 - In SENATE. Read second time.;01/23/2019 - To SENATE Committee on FOREIGN RELATIONS.
<b><u>HR 1162</u></b> Napolitano (D)	Water Recycling and Reuse Projects Grant Program	SUPPORT	Establishes a grant program for the funding of water recycling and reuse projects.	06/13/2019 - Subcommittee on WATER, POWER AND OCEANS hearings held.
<b><u>HR 1567</u></b> Lujan (D)	Water Contamination From Military Installations		Authorizes the Department of Defense to temporarily provide water uncontaminated with perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS) for agricultural purposes to areas affected by contamination from military installations, authorizes the Secretary of the Air Force to acquire real property to extend the contiguous geographic footprint of any Air Force base that has shown signs of contamination from PFOA and PFOS due to activities on the base.	03/07/2019 - In HOUSE Committee on TRANSPORTATION & INFRASTRUCTURE: Referred to Subcommittee on WATER RESOURCES AND ENVIRONMENT.
<b><u>HR 1764</u></b> Garamendi (D)	Federal Water Pollution Control Permitting Terms	SUPPORT	Amends the Federal Water Pollution Control Act with respect to permitting terms.	03/15/2019 - In HOUSE Committee on TRANSPORTATION & INFRASTRUCTURE: Referred to Subcommittee on WATER RESOURCES AND ENVIRONMENT.
<b><u>HR 1976</u></b> Kildee (D)	Perfluorinated Compounds Survey		Requires the Director of the United States Geological Survey to perform a nationwide survey of perfluorinated compounds.	06/13/2019 - Subcommittee on WATER, POWER AND OCEANS hearings held.
<b><u>HR 2377</u></b> Boyle B (D)	Drinking Water Maximum Contaminant Level		Amends the Safe Drinking Water Act, requires the Administrator of the Environmental Protection Agency to publish a maximum contaminant level goal and promulgate a national primary drinking water regulation for total per- and polyfluoroalkyl substances.	09/26/2019 - Subcommittee on ENVIRONMENT consideration and mark-up session held.;09/26/2019 - Forwarded by Subcommittee on ENVIRONMENT to full committee.

**IRWD 2020 LEGISLATIVE MATRIX**  
Updated 02/27/2020

Bill No. Author	Title	IRWD Position	Summary/Effects	Status
<u><b>HR 2500</b></u> Smith A (D)	National Defense Authorization Act for Fiscal Year 2020		Provides for the National Defense Authorization Act for specified Fiscal Year.	07/12/2019 - In HOUSE. HA 560 Amendment offered by Representative Thompson.;07/12/2019 - In HOUSE. HA 561 Amendment offered by Representative Malinowski.;07/12/2019 - In HOUSE. HA 562 Amendment offered by Representative Dingell.;07/12/2019 - In HOUSE.
<u><b>HR 2533</b></u> Pallone (D)	Community Water Systems Contamination		Assists community water systems affected by perfluoroalkyl substances (PFAS) contamination.	09/26/2019 - Subcommittee on ENVIRONMENT consideration and mark-up session held.;09/26/2019 - Forwarded by Subcommittee on ENVIRONMENT to full committee.
<u><b>HR 2566</b></u> Soto (D)	Environmental Protection Agency Safer Choice Standard		Requires the Administrator of the Environmental Protection Agency to revise the Safer Choice Standard to provide for a Safer Choice label for pots, pans, and cooking utensils that do not contain polyfluoroalkyl substances (PFAS).	09/26/2019 - Subcommittee on ENVIRONMENT consideration and mark-up session held.;09/26/2019 - Forwarded by Subcommittee on ENVIRONMENT to full committee.
<u><b>HR 2570</b></u> Rouda (D)	Water Treatment Costs		Ensures that polluters pay ongoing water treatment costs associated with contamination from perfluoroalkyl and polyfluoroalkyl substances.	09/26/2019 - Subcommittee on ENVIRONMENT consideration and mark-up session held.;09/26/2019 - Forwarded by Subcommittee on ENVIRONMENT to full committee.
<u><b>HR 2591</b></u> Khanna (D)	Polyfluoroalkyl Substance Waste Prohibition		Prohibits the waste incineration of per- and polyfluoroalkyl substances.	09/26/2019 - Subcommittee on ENVIRONMENT consideration and mark-up session held.;09/26/2019 - Forwarded by Subcommittee on ENVIRONMENT to full committee.
<u><b>HR 2596</b></u> Kuster (D)	Polyfluoroalkyl Substances Manufacturing and Processing		Amends the Toxic Substances Control Act with respect to manufacturing and processing notices for per- and polyfluoroalkyl substances.	09/26/2019 - Subcommittee on ENVIRONMENT consideration and mark-up session held.;09/26/2019 - Forwarded by Subcommittee on ENVIRONMENT to full committee.

**IRWD 2020 LEGISLATIVE MATRIX**  
**Updated 02/27/2020**

<b>Bill No. Author</b>	<b>Title</b>	<b>IRWD Position</b>	<b>Summary/Effects</b>	<b>Status</b>
<b><u>HR 2600</u></b> Dean (D)	Per and Polyfluoroalkyl Substances Regulation		Regulates per- and polyfluoroalkyl substances under the Toxic Substances Control Act.	09/26/2019 - Subcommittee on ENVIRONMENT consideration and mark-up session held.;09/26/2019 - Forwarded by Subcommittee on ENVIRONMENT to full committee.
<b><u>HR 2605</u></b> Stevens (D)	Hazardous Air Pollutants Classification		Directs the Administrator of the Environmental Protection Agency to issue a final rule adding as a class all perfluoroalkyl and polyfluoroalkyl substances with at least one fully fluorinated carbon atom to the list of hazardous air pollutants under section 112(b) of the Clean Air Act (42 U.S.C. 7412(b)).	09/26/2019 - Subcommittee on ENVIRONMENT consideration and mark-up session held.;09/26/2019 - Forwarded by Subcommittee on ENVIRONMENT to full committee.
<b><u>HR 2608</u></b> Maloney S (D)	Toxic Substances Testing		Requires the testing of perfluoroalkyl and polyfluoroalkyl substances under the Toxic Substances Control Act.	09/26/2019 - Subcommittee on ENVIRONMENT consideration and mark-up session held.;09/26/2019 - Forwarded by Subcommittee on ENVIRONMENT to full committee.
<b><u>HR 2626</u></b> Upton (R)	Water Contamination Remediation Agreements		Encourages Federal agencies to expeditiously enter into or amend cooperative agreements with States for removal and remedial actions to address PFAS contamination in drinking, surface, and ground water and land surface and subsurface strata.	09/26/2019 - Subcommittee on ENVIRONMENT consideration and mark-up session held.;09/26/2019 - Forwarded by Subcommittee on ENVIRONMENT to full committee.
<b><u>HR 2800</u></b> Slotkin (D)	Drinking Water Substance Monitoring		Amends the Safe Drinking Water Act, requires continued and expanded monitoring of perfluoroalkyl and polyfluoroalkyl substances in drinking water.	05/16/2019 - INTRODUCED.;05/16/2019 - To HOUSE Committee on ENERGY AND COMMERCE.
<b><u>S 611</u></b> Sanders (I)	Water and Sewer Infrastructure Funding		Provides adequate funding for water and sewer infrastructure.	02/28/2019 - INTRODUCED.;02/28/2019 - In SENATE. Read second time.;02/28/2019 - To SENATE Committee on ENVIRONMENT AND PUBLIC WORKS.
<b><u>S 638</u></b> Carper (D)	Hazardous Substances Designation		Requires the Administrator of the Environmental Protection Agency to designate per- and polyfluoroalkyl substances as	02/28/2019 - INTRODUCED.;02/28/2019 - In SENATE. Read second

**IRWD 2020 LEGISLATIVE MATRIX**  
**Updated 02/27/2020**

<b>Bill No. Author</b>	<b>Title</b>	<b>IRWD Position</b>	<b>Summary/Effects</b>	<b>Status</b>
			hazardous substances under the Comprehensive Environmental Response, Compensation, Liability Act of 1980.	time.;02/28/2019 - To SENATE Committee on ENVIRONMENT AND PUBLIC WORKS.
<b><u>S 675</u></b> Udall T (D)	Water Contamination From Military Installations		Authorizes the Department of Defense to temporarily provide water uncontaminated with perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS) for agricultural purposes to areas affected by contamination from military installations, authorizes the Secretary of the Air Force to acquire real property to extend the contiguous geographic footprint of any Air Force base that has shown signs of contamination from PFOA and PFOS due to activities on the base.	03/06/2019 - INTRODUCED.;03/06/2019 - In SENATE. Read second time.;03/06/2019 - To SENATE Committee on ARMED SERVICES.
<b><u>S 950</u></b> Stabenow (D)	Perfluorinated Compounds Survey		Requires the Director of the United States Geological Survey to perform a nationwide survey of perfluorinated compounds.	03/28/2019 - INTRODUCED.;03/28/2019 - In SENATE. Read second time.;03/28/2019 - To SENATE Committee on ENVIRONMENT AND PUBLIC WORKS.
<b><u>S 1251</u></b> Shaheen (D)	Emerging Contaminants Public Health Response Assistance		Improves coordinate interagency Federal actions, provides assistance to States for responding to public health challenges posed by emerging contaminants.	04/30/2019 - INTRODUCED.;04/30/2019 - In SENATE. Read second time.;04/30/2019 - To SENATE Committee on ENVIRONMENT AND PUBLIC WORKS.
<b><u>S 1372</u></b> Stabenow (D)	Water Contamination Remediation Agreements		Encourages Federal agencies to expeditiously enter into or amend cooperative agreements with States for removal and remedial actions to address polyfluoroalkyl substances (PFAS) contamination in drinking, surface, and ground water and land surface and subsurface strata.	05/08/2019 - INTRODUCED.;05/08/2019 - In SENATE. Read second time.;05/08/2019 - To SENATE Committee on ENVIRONMENT AND PUBLIC WORKS.
<b><u>S 1473</u></b> Gillibrand (D)	Drinking Water Maximum Contaminant Levels		Amends the Safe Drinking Water Act, requires the Administrator of the Environmental Protection Agency to set maximum contaminant levels for certain chemicals.	05/15/2019 - INTRODUCED.;05/15/2019 - In SENATE. Read second time.;05/15/2019 - To SENATE

**IRWD 2020 LEGISLATIVE MATRIX**  
**Updated 02/27/2020**

<b>Bill No. Author</b>	<b>Title</b>	<b>IRWD Position</b>	<b>Summary/Effects</b>	<b>Status</b>
				Committee on ENVIRONMENT AND PUBLIC WORKS.
<b>S 1507</b> Capito (R)	Toxics Release Inventory Inclusion		Includes certain perfluoroalkyl and polyfluoroalkyl substances in the toxics release inventory.	06/19/2019 - In SENATE Committee on ENVIRONMENT AND PUBLIC WORKS: Ordered to be reported with an amendment in the nature of a substitute.;06/19/2019 - From SENATE Committee on ENVIRONMENT AND PUBLIC WORKS: Reported by Sen. Barrasso with an amend.
<b>S 1932</b> Gardner (R)	Reclamation States Water Infrastructure Support	SUPPORT	Supports water infrastructure in Reclamation States.	07/18/2019 - Subcommittee on WATER AND POWER hearings held.

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March 9, 2020

Prepared by: J. Davis / T. Fournier

Submitted by: R. Jacobson / C. Clary

Approved by: Paul A. Cook



## CONSENT CALENDAR

### JANUARY 2020 TREASURY REPORT

#### SUMMARY:

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

- A. The January 2020 Investment Summary Report. This Investment Summary Report conforms with the 2020 Investment Policy and provides sufficient liquidity to meet estimated expenditures during the next six months, as outlined in Exhibit "A";
- B. The Summary of Fixed and Variable Rate Debt as of January 31, 2020, as outlined in Exhibit "B";
- C. The Monthly Interest Rate Swap Summary as of January 31, 2020, as outlined in Exhibit "C";
- D. The January 31, 2020 Disbursement Summary of warrants 405005 through 405945, wire transfers, Workers' Compensation distributions, payroll withholding distributions, and voided checks in the total amount of \$28,866,405 as outlined in Exhibit "D";
- E. The Summary of Payroll ACH payments in the total amount of \$3,120,220 as outlined in Exhibit "E"; and
- F. The Disclosure Report of Reimbursements to Board Members and staff for January 2020, detailing payments or reimbursements for individual charges of \$100.00 or more per transaction, as outlined in Exhibit "F".

#### FISCAL IMPACTS:

As of January 31, 2020, the book value of the investment portfolio was \$358,455,200, with a 2.06% rate of return and a market value of \$360,322,453. Based on the IRWD's December 31, 2019 quarterly real estate investment rate of return of 8.67%, the weighted average return for the fixed income and real estate investments was 4.06%.

As of January 31, 2020, the outstanding principal amount of fixed and variable rate debt was \$659,425,000. The monthly weighted average all-in variable rate was 1.03%. Including the District's weighted average fixed rate bond issues of 3.69% and the previous month's negative cash accruals from fixed payer interest rate swaps, which hedge a portion of the District's variable rate debt, the total average debt rate was 3.02%.

Payroll ACH payments totaled \$3,120,220, and wire transfers, all other ACH payments, and checks issued for debt service, accounts payable, payroll, and water purchases for January totaled \$28,866,405.

ENVIRONMENTAL COMPLIANCE:

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

COMMITTEE STATUS:

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

RECOMMENDATION:

THAT THE BOARD RECEIVE AND FILE THE TREASURER'S INVESTMENT SUMMARY REPORT, THE SUMMARY OF FIXED AND VARIABLE RATE DEBT, AND DISCLOSURE REPORT OF REIMBURSEMENTS TO BOARD MEMBERS AND STAFF; APPROVE THE JANUARY 2020 SUMMARY OF PAYROLL ACH PAYMENTS IN THE TOTAL AMOUNT OF \$3,120,220; AND APPROVE THE JANUARY 2020 ACCOUNTS PAYABLE DISBURSEMENT SUMMARY OF WARRANTS 405005 THROUGH 405945, WORKERS' COMPENSATION DISTRIBUTIONS, WIRE TRANSFERS, PAYROLL WITHHOLDING DISTRIBUTIONS AND VOIDED CHECKS IN THE TOTAL AMOUNT OF \$28,866,405.

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

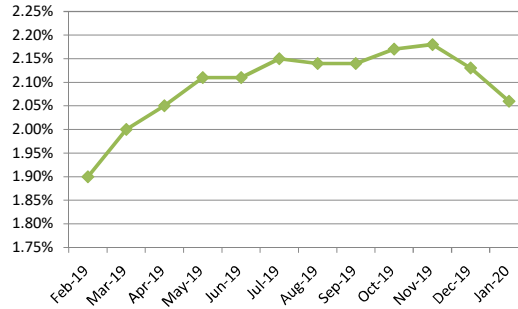
Exhibit "E" – Monthly Payroll ACH Summary

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

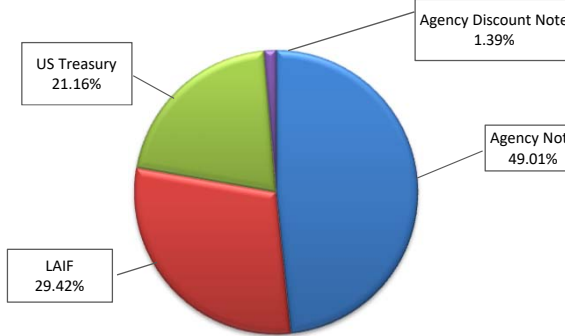
# Exhibit "A"

## Irvine Ranch Water District Investment Portfolio Summary January 2020

**Monthly Fixed Income Yield**



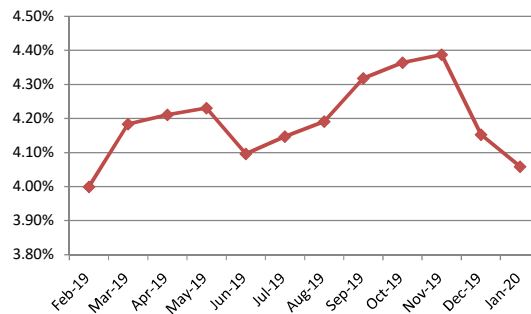
**Portfolio Distribution**



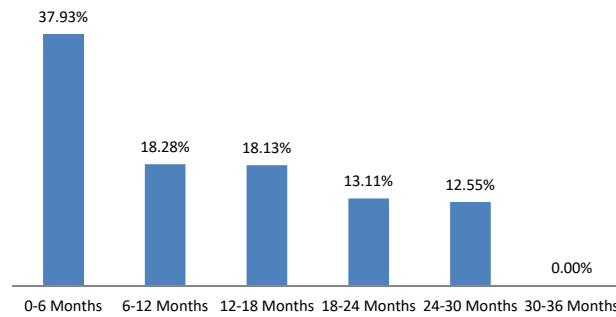
**Investment Summary**

Type	PAR	Book Value	Market Value
Agency Note	177,550,000	177,470,191	178,370,962
US Treasury	105,000,000	104,987,626	105,827,950
LAIF	71,000,000	71,000,000	71,125,691
Agency Discount Note	5,000,000	4,997,383	4,997,850
<b>Grand Total</b>	<b>358,550,000</b>	<b>358,455,200</b>	<b>360,322,453</b>

**Weighted Average Return  
Including Real Estate Portfolio**



**Maturity Distribution**



**Top Issuers**

Issuer	PAR	% Portfolio
US Treasury	105,000,000	29.28%
State of California Tsy.	71,000,000	19.80%
Fed Farm Credit Bank	67,000,000	18.69%
Fed Home Loan Bank	45,000,000	12.55%
Fed Natl Mortgage Assoc	40,550,000	11.31%
Fed Home Loan Mortgage Corp	30,000,000	8.37%
<b>Grand Total</b>	<b>358,550,000</b>	<b>100.00%</b>

IRVINE RANCH WATER DISTRICT  
INVESTMENT SUMMARY REPORT

01/31/20

SETTLMT	Call Schedule	Initial Call	Maturity Date	Rating	INVESTMENT TYPE	INSTITUTION / ISSUER	PAR Amount	COUPON DISCOUNT	YIELD	ORIGINAL COST	CARRY VALUE	MARKET VALUE <sup>(1)</sup> 1/31/2020	UNREALIZED <sup>(2)</sup> GAIN/(LOSS)
08/23/17			02/01/20		LAIF	State of California Tsy.	\$71,000,000		1.970%	\$71,000,000.00	\$71,000,000.00	71,125,691.16	125,691.16
12/27/19	NA	NA	02/13/20	NR	FHLB - Discount Note	Fed Home Loan Bank	5,000,000	1.570%	1.595%	4,989,533.35	4,997,383.34	4,997,850.00	466.66
10/16/17	NA	NA	02/28/20	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	1.500%	1.612%	4,987,025.00	4,999,595.00	4,999,550.00	(45.00)
12/19/18	NA	NA	02/29/20	Aaa/NR/AAA	Treasury - Note	US Treasury	10,000,000	1.250%	2.672%	9,833,593.76	9,984,387.52	9,997,300.00	12,912.48
12/20/17	NA	NA	03/13/20	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	4.125%	1.940%	5,237,200.00	5,041,670.27	5,013,800.00	(27,870.27)
12/20/18	NA	NA	03/31/20	Aaa/NR/AAA	Treasury - Note	US Treasury	10,000,000	2.250%	2.665%	9,948,000.00	9,992,094.22	10,009,400.00	17,305.78
10/03/17	NA	NA	04/20/20	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	1.375%	1.630%	4,968,350.00	4,997,311.45	4,999,300.00	1,988.55
06/29/18	NA	NA	04/23/20	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	2.500%	2.544%	4,996,000.00	4,999,614.91	5,010,350.00	10,735.09
06/29/18	NA	NA	05/15/20	Aaa/AA+/AAA	FFCB - Note	Fed Farm Credit Bank	5,000,000	2.550%	2.566%	4,998,450.00	4,999,765.01	5,014,550.00	14,784.99
12/04/19	NA	NA	05/28/20	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	2.625%	1.582%	5,025,000.00	5,016,619.32	5,016,850.00	230.68
06/11/18	NA	NA	06/11/20	Aaa/NR/AAA	FFCB - Note	Fed Farm Credit Bank	5,000,000	2.550%	2.570%	4,997,100.00	4,999,480.30	5,018,100.00	18,619.70
11/10/17	NA	NA	06/22/20	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	1.500%	1.750%	4,968,000.00	4,998,655.32	4,998,150.00	(505.32)
04/19/18	NA	NA	07/30/20	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	1.500%	2.535%	4,886,000.00	4,975,366.15	4,996,700.00	21,333.85
06/08/18	NA	NA	07/30/20	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	1.500%	2.559%	4,890,100.00	4,974,735.63	4,996,700.00	21,964.37
12/20/17	Quarterly	11/10/16	08/10/20	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	1.450%	2.052%	4,923,000.00	4,976,596.47	4,995,850.00	19,253.53
09/14/18	NA	NA	08/24/20	Aaa/AA+/AAA	FFCB - Note	Fed Farm Credit Bank	5,000,000	2.680%	2.789%	4,989,700.00	4,997,026.06	5,032,400.00	35,373.94
05/21/18	Continuous after	12/01/17	09/01/20	Aaa/AA+/AAA	FFCB - Note	Fed Farm Credit Bank	5,000,000	1.680%	2.735%	4,884,250.00	4,970,437.95	5,000,050.00	29,612.05
09/14/18	NA	NA	09/04/20	Aaa/AA+/AAA	FFCB - Note	Fed Farm Credit Bank	5,000,000	2.690%	2.794%	4,990,050.00	4,997,019.14	5,034,250.00	37,230.86
12/12/17	NA	NA	09/28/20	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	2.000%	2.000%	5,000,000.00	5,000,000.00	5,010,500.00	10,500.00
10/31/17	NA	NA	10/30/20	Aaa/NR/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,550,000	1.850%	1.850%	5,550,000.00	5,550,000.00	5,554,662.00	4,662.00
09/28/18	NA	NA	10/31/20	Aaa/NR/AAA	Treasury - Note	US Treasury	5,000,000	1.750%	2.847%	4,889,453.13	4,818,407.96	5,006,450.00	188,042.04
12/13/17	Continuous after	08/23/17	11/23/20	Aaa/AA+/AAA	FFCB - Note	Fed Farm Credit Bank	5,000,000	1.770%	2.060%	4,958,750.00	4,984,473.75	5,000,000.00	15,526.25
11/30/17	NA	NA	11/24/20	Aaa/AA+/AAA	FFCB - Note	Fed Farm Credit Bank	5,000,000	1.850%	1.964%	4,983,550.00	4,995,517.75	5,012,800.00	17,282.25
12/20/17	NA	NA	12/28/20	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	1.875%	2.023%	4,978,400.00	4,991,528.26	5,018,800.00	27,271.74
11/09/18	NA	NA	12/31/20	Aaa/NR/AAA	Treasury - Note	US Treasury	5,000,000	2.375%	2.958%	4,939,843.75	4,974,339.48	5,037,500.00	63,160.52
10/12/18	NA	NA	01/31/21	Aaa/NR/AAA	Treasury - Note	US Treasury	10,000,000	1.375%	2.890%	9,664,843.76	9,854,712.56	9,986,300.00	131,587.44
12/14/18	NA	NA	02/16/21	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	2.375%	2.806%	4,954,750.00	4,977,289.62	5,046,150.00	68,860.38
12/14/18	NA	NA	02/28/21	Aaa/NR/AAA	Treasury - Note	US Treasury	5,000,000	2.000%	2.755%	4,919,515.95	4,959,009.98	5,026,750.00	67,740.02
02/12/19	NA	NA	03/12/21	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	10,000,000	2.500%	2.516%	9,996,500.00	9,998,132.41	10,099,500.00	101,367.59
02/25/19	NA	NA	03/12/21	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	2.375%	2.549%	4,982,700.00	4,990,607.91	5,049,000.00	58,392.09
06/17/19	NA	NA	03/17/21	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	5,000,000	1.950%	1.938%	5,001,050.00	5,000,673.71	5,033,650.00	32,976.29
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	4,990,072.89	5,023,450.00	33,377.11
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	5,036,715.70	5,047,850.00	11,134.30
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	5,054,660.60	5,074,600.00	19,939.40

IRVINE RANCH WATER DISTRICT  
INVESTMENT SUMMARY REPORT

01/31/20

SETTLMT	Call Schedule	Initial Call	Maturity Date	Rating	INVESTMENT TYPE	INSTITUTION / ISSUER	PAR Amount	COUPON DISCOUNT	YIELD	ORIGINAL COST	CARRY VALUE	MARKET VALUE <sup>(1)</sup> 1/31/2020	UNREALIZED <sup>(2)</sup> GAIN/(LOSS)
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	5,030,843.04	5,054,200.00	23,356.96
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	4,967,418.49	4,978,900.00	11,481.51
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	4,996,312.15	5,037,200.00	40,887.85
12/12/19	One Time	05/27/20	08/21/21	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	1.750%	1.712%	5,003,200.00	5,002,935.92	5,004,200.00	1,264.08
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	4,946,688.16	4,978,150.00	31,461.84
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	5,111,402.00	5,125,000.00	13,598.00
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	4,979,810.77	5,002,700.00	22,889.23
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	5,110,671.55	5,131,650.00	20,978.45
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	5,006,237.55	5,034,950.00	28,712.45
12/02/19	Continuous after	03/02/20	12/02/21	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	7,000,000	1.700%	1.726%	6,996,500.00	6,996,792.07	7,001,050.00	4,257.93
11/25/19			12/31/21	Aaa/NR/AAA	Treasury - Note	US Treasury	5,000,000	2.000%	1.619%	5,039,062.50	5,035,599.33	5,060,150.00	24,550.67
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	5,070,515.38	5,095,100.00	24,584.62
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	5,003,740.12	5,109,750.00	106,009.88
01/15/20	One Time	7/10/20	01/10/22	Aaa/NA/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	1.625%	1.625%	5,000,000.00	5,000,000.00	5,003,600.00	3,600.00
12/19/19	NA	NA	01/31/22	Aaa/NR/AAA	Treasury - Note	US Treasury	5,000,000	1.875%	1.641%	5,024,218.75	5,022,841.97	5,051,150.00	28,308.03
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	4,968,131.95	5,063,850.00	95,718.05
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	5,084,464.62	5,114,850.00	30,385.38
03/08/19	NA	NA	03/11/22	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	2.500%	2.549%	5,002,750.00	5,001,924.25	5,115,700.00	113,775.75
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	5,024,234.46	5,057,250.00	33,015.54
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	5,000,736.02	5,018,250.00	17,513.98
<b>TOTAL INVESTMENTS</b>							<b>\$358,550,000</b>			<b>\$357,817,949.34</b>	<b>\$358,455,200.44</b>	<b>\$360,322,453.16</b>	<b>\$1,867,252.71</b>

Petty Cash  
Ck Balance

Bank of America

3,400.00

273,413.00

\$358,094,762.34

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

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

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

Outstanding Variable Rate Debt	\$262,300,000
Net Outstanding Variable Rate Debt (Less \$60 million fixed-payer swaps)	\$202,300,000
Investment Balance:	\$358,094,762
Investment to Variable Rate Debt Ratio:	177%
Portfolio - Average Number of Days To Maturity	313

	Investment Portfolio	Real Estate <sup>(3)</sup> Portfolio	Weighted Avg. Return
January	2.06%	8.67%	4.06%
December	2.13%	8.67%	4.15%
Change	-0.07%		-0.09%

This Investment Summary Report is in conformity with the 2020 Investment Policy and provides sufficient liquidity to meet the next six months estimated expenditures.  
\*S - Step up

IRVINE RANCH WATER DISTRICT  
SUMMARY OF MATURITIES

01/31/20

DATE	TOTAL	%	LAIF	Agency Notes	Agency Discount Notes	Collateral Deposit	US Treasury
01/20	\$71,000,000	19.80%	\$71,000,000				
02/20	20,000,000	5.58%		5,000,000	5,000,000		10,000,000
03/20	15,000,000	4.18%		5,000,000			10,000,000
04/20	10,000,000	2.79%		10,000,000			
05/20	10,000,000	2.79%		10,000,000			
06/20	10,000,000	2.79%		10,000,000			
07/20	10,000,000	2.79%		10,000,000			
08/20	10,000,000	2.79%		10,000,000			
09/20	15,000,000	4.18%		15,000,000			
10/20	10,550,000	2.94%		5,550,000			5,000,000
11/20	10,000,000	2.79%		10,000,000			
12/20	10,000,000	2.79%		5,000,000			5,000,000
<b>SUB-TOTAL</b>	<b>\$201,550,000</b>	<b>56.21%</b>	<b>\$71,000,000</b>	<b>\$95,550,000</b>	<b>\$5,000,000</b>		<b>\$30,000,000</b>
<b>13 Months - 3 YEARS</b>							
01/31/2021 - 03/21/21	40,000,000	11.16%		25,000,000			15,000,000
04/01/2021 - 06/30/2021	25,000,000	6.97%		10,000,000			15,000,000
07/01/2021 - 09/30/2021	15,000,000	4.18%		10,000,000			5,000,000
10/01/2021 - 12/31/2021	32,000,000	8.92%		12,000,000			20,000,000
01/01/2022 - 03/31/2022	40,000,000	11.16%		20,000,000			20,000,000
04/01/2022 - 07/31/2022	5,000,000	1.39%		5,000,000			
	-						
	-						
	-						
<b>TOTALS</b>	<b>\$358,550,000</b>	<b>100.00%</b>	<b>\$71,000,000</b>	<b>\$177,550,000</b>	<b>\$5,000,000</b>		<b>\$105,000,000</b>

% OF PORTFOLIO

19.80%

49.53%

1.39%

29.28%

Irvine Ranch Water District  
Summary of Real Estate - Income Producing Investments  
12/31/2019

	ACQUISITION DATE	PROPERTY TYPE	OWNERSHIP INTEREST	ORIGINAL COST	MARKET VALUE 12/31/2019	ANNUALIZED RATE OF RETURN QUARTER ENDED 12/31/2019
Sycamore Canyon	Dec-92	Apartments	Fee Simple	\$ 43,550,810	\$ 148,625,000	18.28%
Wood Canyon Villas	Jun-91	Apartments	Limited Partner	\$ 6,000,000	\$ 28,710,327	8.53%
ITC (230 Commerce)	Jul-03	Office Building	Fee Simple	\$ 5,739,845	\$ 11,730,000	10.47%
Waterworks Business Pk.	Nov-08	Research & Dev.	Fee Simple	\$ 8,630,577	\$ 9,180,000	6.71%
Sand Canyon Professional Center	Jul-12	Medical Office	Fee Simple	\$ 8,648,594	\$ 11,220,000	8.73%
<b>Total - Income Properties</b>				<b>\$ 72,569,826</b>	<b>\$ 209,465,327</b>	<b>14.34%</b>
<b>OTHER REAL ESTATE DESCRIPTION</b>						
Serrano Summit - Promissory Note	Sep-17	NA	NA	\$ 88,128,000	\$ 88,128,000	4.00%
<b>Total - Income Producing Real Estate Investments</b>				<b>\$ 160,697,826</b>	<b>\$ 297,593,327</b>	<b>8.67%</b>

**IRVINE RANCH WATER DISTRICT INVESTMENT SUMMARY REPORT**  
**INVESTMENT ACTIVITY**  
**Jan-20**

**MATURITIES/SALES/CALLS**

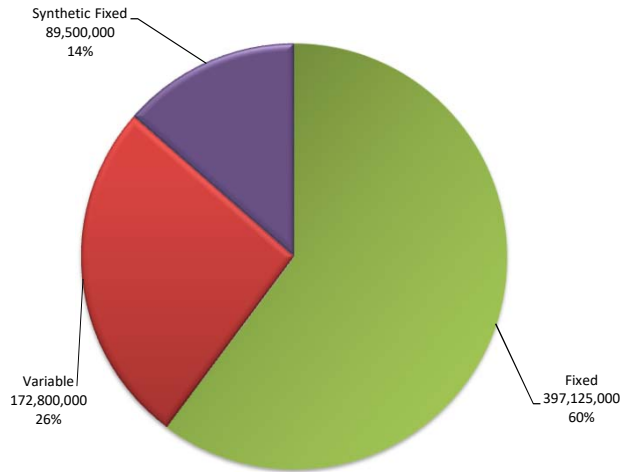
**PURCHASES**

DATE	SECURITY TYPE	PAR	YIELD	Settlement Date	Maturity Date	SECURITY TYPE	PAR	YIELD TO MATURITY
1/10/2020	FHLMC - Discount Note	\$10,000,000	1.48%	1/15/2020	1/10/2022	FHLMC - Note	\$5,000,000	1.62%
1/15/2020	FHLMC - Note	\$10,000,000	2.00%	1/15/2020	7/15/2022	FFCB - Note	\$5,000,000	1.59%
1/17/2020	FHLMC - Note	\$5,000,000	1.93%	1/16/2020	6/30/2021	Treasury - Note	\$5,000,000	1.59%
1/30/2020	Treasury - Note	\$10,000,000	1.43%					

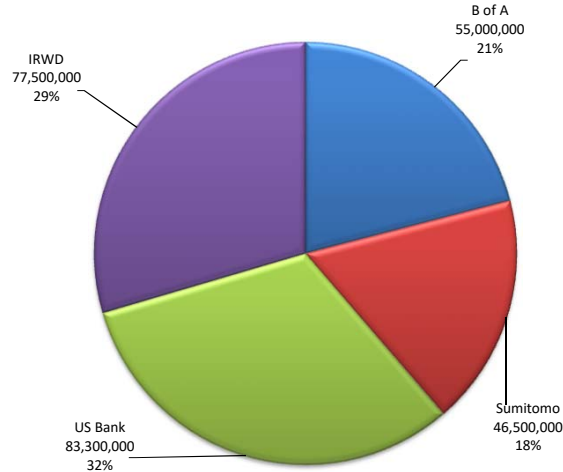


Exhibit "B"  
**Irvine Ranch Water District**  
**Summary of Fixed and Variable Rate Debt**  
**January 2020**

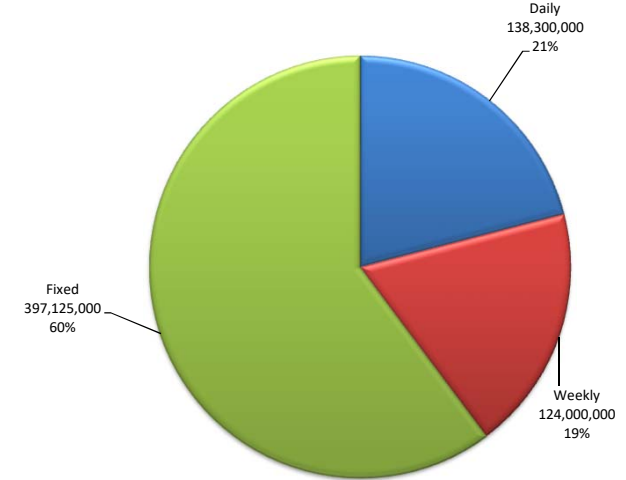
**Current Debt Mix By Type**



**Letters of Credit / Support**



**Current Debt Rate Reset**



**Outstanding Par by Series**

Series	Issue Date	Maturity Date	Remaining Principal	Percent	Letter of Credit/Support	Rmkt Agent	Mode	Reset
Series 1993	05/19/93	04/01/33	\$28,300,000	4.29%	US Bank	BAML	Variable	Daily
Series 2008-A Refunding	04/24/08	07/01/35	\$46,500,000	7.05%	Sumitomo	BAML	Variable	Weekly
Series 2011-A-1 Refunding	04/15/11	10/01/37	\$46,500,000	7.05%	IRWD	Goldman	Variable	Weekly
Series 2011-A-2 Refunding	04/15/11	10/01/37	\$31,000,000	4.70%	IRWD	Goldman	Variable	Weekly
Series 2009 - A	06/04/09	10/01/41	\$55,000,000	8.34%	US Bank	US Bank	Variable	Daily
Series 2009 - B	06/04/09	10/01/41	\$55,000,000	8.34%	B of A	Goldman	Variable	Daily
2010 Refunding COPS	02/23/10	03/01/20	\$1,980,000	0.30%	N/A	N/A	Fixed	Fixed
2016 COPS	09/01/16	03/01/46	\$116,745,000	17.70%	N/A	N/A	Fixed	Fixed
2010 Build America Taxable Bond	12/16/10	05/01/40	\$175,000,000	26.54%	N/A	N/A	Fixed	Fixed
Series 2016	10/12/16	02/01/46	\$103,400,000	15.68%	N/A	N/A	Fixed	Fixed
<b>Total</b>			<b>\$659,425,000</b>	<b>100.00%</b>				

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

January-20

<b>ITN</b>
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	\$28,300,000	US BANK	05/07/15	12/15/21	Aa3/VMIG1	AA-/A-1+	N/R	\$28,681,468	0.3300%	\$94,649	BAML	DAILY	0.10%	\$28,300	BANK OF NY											
SERIES 2008-A Refunding	04/24/08	07/01/35	Jul 1	5th Bus. Day	\$60,215,000	\$46,500,000	SUMITOMO	04/01/11	07/21/21	A1/P-1	A/A-1	A/F1	\$47,187,945	0.3150%	\$148,642	BAML	WED	0.07%	\$32,550	BANK OF NY											
SERIES 2011-A-1 Refunding	04/15/11	10/01/37	Oct 1	1st Bus. Day	\$60,545,000	\$46,500,000	N/A	N/A	N/A	Aa1/VMIG1	A-1+	AAA/F1+	N/A	N/A	N/A	Goldman	WED	0.13%	\$58,125	BANK OF NY											
SERIES 2011-A-2 Refunding	04/15/11	10/01/37	Oct 1	1st Bus. Day	\$40,370,000	\$31,000,000	N/A	N/A	N/A	Aa1/VMIG1	A-1+	AAA/F1+	N/A	N/A	N/A	Goldman	WED	0.13%	\$38,750	BANK OF NY											
SERIES 2009 - A	06/04/09	10/01/41	Oct 1	1st Bus. Day	\$75,000,000	\$55,000,000	US BANK	04/01/11	12/15/21	Aa2/VMIG 1	AA-/A-1+	AA/F1+	\$55,614,795	0.3300%	\$183,529	US Bank	DAILY	0.07%	\$38,500	US BANK											
SERIES 2009 - B	06/04/09	10/01/41	Oct 1	1st Bus. Day	\$75,000,000	\$55,000,000	B of A	04/01/11	05/16/22	Aa2/VMIG 1	A/A-1	A1/F1+	\$55,614,795	0.3000%	\$166,844	Goldman	DAILY	0.10%	\$55,000	US BANK											
<b>\$349,430,000</b>						<b>\$262,300,000</b>						<b>SUB-TOTAL VARIABLE RATE DEBT</b>					<b>\$187,099,003</b>					<b>0.3173%</b>					<b>\$593,664</b>				
															(Wt. Avg)					(Wt. Avg)											
<b>FIXED RATE ISSUES</b>																															
2010 REFUNDING COPS	02/23/10	03/01/20	Mar 1	Mar/Sept	\$85,145,000	\$1,980,000	N/A	N/A	N/A	Aa1	AAA	AAA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	BANK OF NY											
2010 GO Build America Taxable Bonds	12/16/10	05/01/40	May (2025)	May/Nov	\$175,000,000	\$175,000,000	N/A	N/A	N/A	Aa1	AAA	NR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	US BANK											
2016 COPS	09/01/16	03/01/46	Mar (2021)	Mar/Sept	\$116,745,000	\$116,745,000	N/A	N/A	N/A	NR	AAA	AAA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	US BANK											
SERIES 2016	10/12/16	02/01/46	Feb (2022)	Feb/Aug	\$103,400,000	\$103,400,000	N/A	N/A	N/A	NR	AAA	AAA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	BANK OF NY											
<b>\$480,290,000</b>						<b>\$397,125,000</b>						<b>SUB-TOTAL FIXED RATE DEBT</b>																			
<b>\$829,720,000</b>						<b>\$659,425,000</b>						<b>TOTAL- FIXED &amp; VARIABLE RATE DEBT</b>																			

Remarketing Agents			GO VS COP's		
Goldman	132,500,000	51%	GO:	540,700,000	82%
BAML	74,800,000	29%	COPS:	118,725,000	18%
US Bank	55,000,000	21%	Total	<u>659,425,000</u>	
	<u>262,300,000</u>				

LOC Banks		Breakdown Between Variable & Fixed Rate Mode	
SUMITOMO	46,500,000	Daily Issues	138,300,000 21%
BANK OF AMERICA	55,000,000	Weekly Issues	46,500,000 7%
US BANK	83,300,000	ITN Issues	77,500,000 12%
	<u>184,800,000</u>	Sub-Total	<u>262,300,000</u>
		Fixed Rate Issues	\$397,125,000 60%
		Sub-Total - Fixed	<u>397,125,000</u>
		TOTAL DEBT	
		FIXED & VAR.	<u>659,425,000</u> 100%

IRVINE RANCH WATER DISTRICT  
SUMMARY OF DEBT RATES  
Jan-20

Rmkt Agent Mode	GOLDMAN DAILY	GOLDMAN WEEKLY	GOLDMAN WEEKLY	MERRILL LYNCH DAILY	MERRILL LYNCH WEEKLY	US BANK DAILY
Bond Issue	2009 - B	2011 A-1	2011 A-2	1993	2008-A	2009-A
Par Amount	55,000,000	46,500,000	31,000,000	28,300,000	46,500,000	55,000,000
Bank	BOFA	(SIFMA -1)	(SIFMA -1)	US BANK	Sumitomo	US BANK
Reset		Wednesday	Wednesday		Wednesday	
1/1/2020	1.36%	1.60%	1.60%	1.43%	1.24%	1.37%
1/2/2020	0.88%	1.31%	1.31%	1.09%	0.93%	1.00%
1/3/2020	0.65%	1.31%	1.31%	0.74%	0.93%	0.70%
1/4/2020	0.65%	1.31%	1.31%	0.74%	0.93%	0.70%
1/5/2020	0.65%	1.31%	1.31%	0.74%	0.93%	0.70%
1/6/2020	0.48%	1.31%	1.31%	0.56%	0.93%	0.60%
1/7/2020	0.40%	1.31%	1.31%	0.41%	0.93%	0.50%
1/8/2020	0.36%	1.31%	1.31%	0.31%	0.93%	0.41%
1/9/2020	0.28%	0.93%	0.93%	0.30%	0.52%	0.33%
1/10/2020	0.28%	0.93%	0.93%	0.20%	0.52%	0.33%
1/11/2020	0.28%	0.93%	0.93%	0.20%	0.52%	0.33%
1/12/2020	0.28%	0.93%	0.93%	0.20%	0.52%	0.33%
1/13/2020	0.28%	0.93%	0.93%	0.21%	0.52%	0.30%
1/14/2020	0.27%	0.93%	0.93%	0.22%	0.52%	0.30%
1/15/2020	0.27%	0.93%	0.93%	0.27%	0.52%	0.30%
1/16/2020	0.30%	0.79%	0.79%	0.32%	0.35%	0.32%
1/17/2020	0.44%	0.79%	0.79%	0.54%	0.35%	0.45%
1/18/2020	0.44%	0.79%	0.79%	0.54%	0.35%	0.45%
1/19/2020	0.44%	0.79%	0.79%	0.54%	0.35%	0.45%
1/20/2020	0.44%	0.79%	0.79%	0.54%	0.35%	0.45%
1/21/2020	0.55%	0.79%	0.79%	0.59%	0.35%	0.65%
1/22/2020	0.66%	0.79%	0.79%	0.62%	0.35%	0.67%
1/23/2020	0.67%	0.81%	0.81%	0.72%	0.45%	0.70%
1/24/2020	0.80%	0.81%	0.81%	0.79%	0.45%	0.80%
1/25/2020	0.80%	0.81%	0.81%	0.79%	0.45%	0.80%
1/26/2020	0.80%	0.81%	0.81%	0.79%	0.45%	0.80%
1/27/2020	0.95%	0.81%	0.81%	0.89%	0.45%	0.86%
1/28/2020	0.90%	0.81%	0.81%	0.96%	0.45%	0.98%
1/29/2020	0.97%	0.81%	0.81%	0.98%	0.45%	0.99%
1/30/2020	1.02%	0.93%	0.93%	1.06%	0.65%	1.04%
1/31/2020	1.08%	0.93%	0.93%	1.12%	0.65%	1.09%
Avg Interest Rates	0.60%	0.96%	0.96%	0.63%	0.59%	0.64%
Rmkt Fee	0.10%	0.13%	0.13%	0.10%	0.07%	0.07%
LOC Fee	0.30%			0.33%	0.32%	0.33%
<b>All-In Rate</b>	<b>1.00%</b>	<b>1.08%</b>	<b>1.08%</b>	<b>1.06%</b>	<b>0.98%</b>	<b>1.04%</b>
Par Amount	101,500,000		31,000,000	74,800,000		55,000,000

Interest Rate Mode	Percent of Total Variable Rate Debt	Par Outstanding	Weighted All-In Average Rate	Base Rate Average
Daily	52.73%	138,300,000	1.03%	0.62%
Weekly	47.27%	124,000,000	1.04%	0.82%
	100.00%	<b>\$ 262,300,000</b>	1.03%	0.71%
<b>Fixed</b>				
COPS 2010	0.50%	1,980,000	3.82%	
COPS 2016	29.40%	116,745,000	2.90%	
BABS 2010	44.07%	175,000,000	4.44%	(1)
SERIES 2016	26.04%	103,400,000	3.32%	
	100.00%	<b>\$ 397,125,000</b>	3.69%	
<b>All-In Debt Rate Including \$60 Million Notional Amount of Swaps</b>				<b>3.02%</b>

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

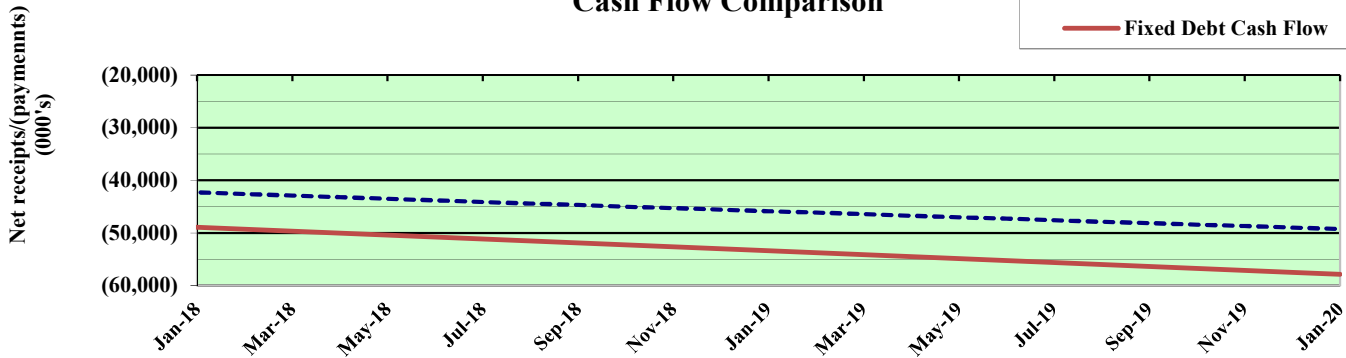
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**IRVINE RANCH WATER DISTRICT  
INTEREST RATE SWAP MONTHLY SUMMARY REPORT - DETAIL  
January 31, 2020**

<b>LIBOR Avg %</b>	<b>Prior Mo.</b>	<b>Current Mo.</b>	<b>12-Mo Avg</b>
	1.75%	1.67%	2.20%

Current Fiscal Year Active Swaps								Cash Flow				(Since 3/07)	Mark to Market	
Effective Date	Maturity Date	Years to Maturity	Counter Party	Notional Amt	Type	Base Index	Fixed Rate	Prior Month	Current Month	Fiscal YTD	Cumulative Net Accrual	Current Mark to Market	Notional Difference	
<b>Fixed Payer Swaps - By Effective Date</b>														
3/10/2007	3/10/2029	9.1	ML	30,000,000	FXP	LIBOR	5.687%	(105,524)	(98,533)	(620,866)	(17,466,593)	18,761,719	(11,238,281)	
3/10/2007	3/10/2029	9.1	CG	30,000,000	FXP	LIBOR	5.687%	(105,524)	(98,533)	(620,866)	(17,466,593)	18,748,332	(11,251,668)	
<b>Totals/Weighted Avgs</b>		9.1		\$ 60,000,000			5.687%	\$ (211,048)	\$ (197,066)	\$ (1,241,732)	\$ (34,933,185)	\$ 37,510,051	\$ (22,489,949)	
<b>Total Current Year Active Swaps</b>				\$ 60,000,000				\$ (211,048)	\$ (197,066)	\$ (1,241,732)	\$ (34,933,185)	\$ 37,510,051	\$ (22,489,949)	

**Interest Rate Swap Portfolio  
Cash Flow Comparison**



Cash Flow Comparison Synthetic Fixed vs. Fixed Rate Debt	
	<u>Cash Flow to Date</u>
Synthetic Fixed =	\$49,254,256
Fixed Rate =	\$59,724,129
<u>Assumptions:</u>	
- Fixed rate debt issued at 4.93% in Mar-07 (estimated TE rate - Bloomberg)	
- 'Synthetic' includes swap cash flow + interest + fees to date	

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**Exhibit "D"**  
**IRVINE RANCH WATER DISTRICT**  
**AP DISBURSEMENTS AND VOIDS FOR JANUARY 2020**

<b>CHECK OR ELECTRONIC #</b>	<b>SUPPLIERS</b>	<b>PAYMENT DATE</b>	<b>PAYMENT AMOUNT</b>	<b>PAYMENT METHOD</b>	<b>STATUS</b>
405005	A&A WIPING CLOTH CO	2-Jan-20	835.07	IRWD Check	Reconciled
405006	AAF INTERNATIONAL	2-Jan-20	1,147.76	IRWD Check	Reconciled
405007	ADAM'S FALCONRY SERVICE, LLC	2-Jan-20	1,560.00	IRWD Check	Reconciled
405008	AIRGAS, INC.	2-Jan-20	2,620.35	IRWD Check	Reconciled
405009	ALSTON & BIRD LLP	2-Jan-20	246,311.95	IRWD Check	Reconciled
405010	AMAZON CAPITAL SERVICES, INC.	2-Jan-20	3,063.10	IRWD Check	Reconciled
405011	APEX SYSTEMS, LLC	2-Jan-20	2,384.20	IRWD Check	Reconciled
405012	AT&T	2-Jan-20	248.89	IRWD Check	Reconciled
405013	AT&T	2-Jan-20	56.51	IRWD Check	Reconciled
405014	BAREK, HAMIDA	2-Jan-20	194.48	IRWD Check	Reconciled
405015	BILL'S SWEEPING SERVICE INC	2-Jan-20	780.00	IRWD Check	Reconciled
405016	BIOQUIP PRODUCTS INC	2-Jan-20	639.52	IRWD Check	Reconciled
405017	BOYD & ASSOCIATES	2-Jan-20	125.00	IRWD Check	Reconciled
405018	BRAX COMPANY, INC	2-Jan-20	7,868.63	IRWD Check	Reconciled
405019	BRENNTAG PACIFIC INC	2-Jan-20	139.00	IRWD Check	Reconciled
405020	BSI SERVICES AND SOLUTIONS (WEST) INC.	2-Jan-20	16,745.00	IRWD Check	Reconciled
405021	CALIFORNIA BARRICADE RENTAL, INC.	2-Jan-20	9,822.50	IRWD Check	Reconciled
405022	CANON SOLUTIONS AMERICA, INC.	2-Jan-20	11.87	IRWD Check	Reconciled
405023	CDW GOVERNMENT LLC	2-Jan-20	1,823.69	IRWD Check	Reconciled
405024	CHARLES WILLIAM ROBLE, JR.	2-Jan-20	90.00	IRWD Check	Reconciled
405025	CHIU, HENRY	2-Jan-20	4.12	IRWD Check	Reconciled
405026	CHRISTENSEN, RAQUEL	2-Jan-20	246.74	IRWD Check	Reconciled
405027	CITY OF NEWPORT BEACH	2-Jan-20	1,149.28	IRWD Check	Reconciled
405028	CITY OF TUSTIN	2-Jan-20	874.11	IRWD Check	Reconciled
405029	COMMERCIAL DOOR OF ORANGE COUNTY, INC.	2-Jan-20	3,203.80	IRWD Check	Reconciled
405030	CONSTELLATION NEWENERGY, INC.	2-Jan-20	10,022.54	IRWD Check	Reconciled
405031	COX COMMUNICATIONS, INC.	2-Jan-20	133.71	IRWD Check	Reconciled
405032	CS-AMSCO	2-Jan-20	686.98	IRWD Check	Reconciled
405033	D & G SIGNS	2-Jan-20	2,796.80	IRWD Check	Reconciled
405034	DEE JASPAR & ASSOCIATES, INC.	2-Jan-20	2,162.43	IRWD Check	Reconciled
405035	DELL MARKETING LP	2-Jan-20	42,972.05	IRWD Check	Reconciled
405036	DEVELOPMENT AND CONSERVATION MANAGEMENT, INC.	2-Jan-20	3,000.00	IRWD Check	Reconciled
405037	DIRECTV INC	2-Jan-20	132.53	IRWD Check	Reconciled
405038	EVANS-HYDRO INC	2-Jan-20	19,005.35	IRWD Check	Reconciled
405039	EVANTEC CORPORATION	2-Jan-20	323.25	IRWD Check	Reconciled
405040	FARRELL & ASSOCIATES	2-Jan-20	184.57	IRWD Check	Reconciled
405041	FEDEX	2-Jan-20	272.06	IRWD Check	Reconciled
405042	FERGUSON ENTERPRISES, LLC	2-Jan-20	8,487.30	IRWD Check	Reconciled
405043	FIRST CHOICE SERVICES	2-Jan-20	915.86	IRWD Check	Reconciled
405044	FRONTIER CALIFORNIA INC.	2-Jan-20	323.50	IRWD Check	Reconciled
405045	GLENN, JULIE	2-Jan-20	58.37	IRWD Check	Reconciled
405046	GRAINGER	2-Jan-20	1,428.10	IRWD Check	Reconciled
405047	GUTH, DANIEL	2-Jan-20	281.76	IRWD Check	Reconciled
405048	HAAKER EQUIPMENT COMPANY	2-Jan-20	1,077.50	IRWD Check	Reconciled
405049	HACH COMPANY	2-Jan-20	4,960.30	IRWD Check	Reconciled
405050	HALL GRIFFIN LLP	2-Jan-20	1,477.69	IRWD Check	Reconciled
405051	HARRINGTON INDUSTRIAL PLASTICS LLC	2-Jan-20	563.90	IRWD Check	Reconciled
405052	HELPMATES STAFFING SERVICES	2-Jan-20	24,776.82	IRWD Check	Reconciled
405053	HILL BROTHERS CHEMICAL COMPANY	2-Jan-20	7,784.70	IRWD Check	Reconciled
405054	HOME DEPOT USA INC	2-Jan-20	528.30	IRWD Check	Reconciled
405055	HYDRO INTERNATIONAL	2-Jan-20	17,811.11	IRWD Check	Reconciled
405056	INDUSTRIAL METAL SUPPLY CO	2-Jan-20	57.12	IRWD Check	Reconciled
405057	KAYUGA SOLUTION INC	2-Jan-20	3,240.00	IRWD Check	Reconciled
405058	KIMBALL MIDWEST	2-Jan-20	3,754.44	IRWD Check	Reconciled
405059	KRONICK MOSKOVITZ TIEDEMANN & GIRARD	2-Jan-20	6,554.20	IRWD Check	Reconciled
405060	LIU, XUEJIAN	2-Jan-20	348.39	IRWD Check	Reconciled
405061	MBC AQUATIC SCIENCES, INC.	2-Jan-20	1,350.00	IRWD Check	Reconciled

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

<b>CHECK OR ELECTRONIC #</b>	<b>SUPPLIERS</b>	<b>PAYMENT DATE</b>	<b>PAYMENT AMOUNT</b>	<b>PAYMENT METHOD</b>	<b>STATUS</b>
405062	MBK ENGINEERS	2-Jan-20	3,906.75	IRWD Check	Reconciled
405063	GUIDEHOUSE INC.	2-Jan-20	23,843.00	IRWD Check	Reconciled
405064	NEOGOV	2-Jan-20	9,974.00	IRWD Check	Reconciled
405065	NEPTUNE TECHNOLOGY GROUP, INC.	2-Jan-20	51,125.22	IRWD Check	Reconciled
405066	OLIN CORPORATION	2-Jan-20	7,411.77	IRWD Check	Reconciled
405067	ORANGE COUNTY AUTO PARTS CO	2-Jan-20	367.55	IRWD Check	Reconciled
405068	PRAXAIR DISTRIBUTION INC	2-Jan-20	1,143.06	IRWD Check	Reconciled
405069	PROCARE WORK INJURY CENTER	2-Jan-20	315.63	IRWD Check	Reconciled
405070	QUINCY COMPRESSOR LLC	2-Jan-20	201.96	IRWD Check	Reconciled
405071	RED WING SHOE STORE	2-Jan-20	321.21	IRWD Check	Reconciled
405072	RELIANCE SAFETY CONSULTANTS, INC.	2-Jan-20	9,680.00	IRWD Check	Reconciled
405073	RICHARD C. SLADE & ASSOCIATES LLC	2-Jan-20	23,731.50	IRWD Check	Reconciled
405074	S&S SEEDS INC	2-Jan-20	619.40	IRWD Check	Reconciled
405075	SCIENTIFIC REFRIGERATION	2-Jan-20	350.75	IRWD Check	Reconciled
405076	SEAL ANALYTICAL INC	2-Jan-20	950.62	IRWD Check	Reconciled
405077	SERRANO WATER DISTRICT	2-Jan-20	16,538.86	IRWD Check	Reconciled
405078	SHAMROCK SUPPLY CO INC	2-Jan-20	1,635.96	IRWD Check	Reconciled
405079	SHERWIN WILLIAMS COMPANY	2-Jan-20	1,540.39	IRWD Check	Reconciled
405080	SOFTWAREONE INC	2-Jan-20	22,319.49	IRWD Check	Reconciled
405081	SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT	2-Jan-20	1,399.46	IRWD Check	Reconciled
405082	SOUTHERN CALIFORNIA EDISON COMPANY	2-Jan-20	123,906.14	IRWD Check	Reconciled
405083	STANTEC CONSULTING SERVICES INC.	2-Jan-20	6,353.50	IRWD Check	Reconciled
405084	SURF CITY OPTOMETRY	2-Jan-20	225.00	IRWD Check	Reconciled
405085	TETRA TECH, INC	2-Jan-20	305.00	IRWD Check	Reconciled
405086	TIC-RETAIL PROPERTIES	2-Jan-20	99.06	IRWD Check	Reconciled
405087	TROPICAL PLAZA NURSERY INC	2-Jan-20	61,791.84	IRWD Check	Reconciled
405088	UNITED PARCEL SERVICE INC	2-Jan-20	155.64	IRWD Check	Reconciled
405089	UNITED SITE SERVICES OF CALIFORNIA INC	2-Jan-20	320.57	IRWD Check	Reconciled
405090	VEOLIA WATER TECHNOLOGIES, INC.	2-Jan-20	42,170.80	IRWD Check	Reconciled
405091	VERIZON WIRELESS SERVICES LLC	2-Jan-20	7,148.35	IRWD Check	Reconciled
405092	VOYTKO MECHANICAL, INC.	2-Jan-20	10,445.72	IRWD Check	Reconciled
405093	VWR INTERNATIONAL, LLC	2-Jan-20	16,480.25	IRWD Check	Reconciled
405094	WALTERS WHOLESALE ELECTRIC	2-Jan-20	1,131.38	IRWD Check	Reconciled
405095	WAXIE'S ENTERPRISES, INC	2-Jan-20	243.55	IRWD Check	Reconciled
405096	WCT PRODUCTS, INC.	2-Jan-20	3,275.60	IRWD Check	Reconciled
405097	WIRELESS WATCHDOGS, LLC	2-Jan-20	1,304.00	IRWD Check	Reconciled
405098	WOODRUFF, SPRADLIN & SMART, APC	2-Jan-20	51.00	IRWD Check	Reconciled
405099	WORKFORCE SAFETY LLC	2-Jan-20	3,000.00	IRWD Check	Reconciled
405100	YAU, RANI	2-Jan-20	123.23	IRWD Check	Negotiable
405101	YORKE ENGINEERING, LLC	2-Jan-20	5,461.70	IRWD Check	Reconciled
405102	Bosley, Kelleen M	2-Jan-20	1,143.40	IRWD Check	Reconciled
405103	Welch, Kelly A (Kellie)	2-Jan-20	223.33	IRWD Check	Reconciled
405104	Perry, Guy M (Matthew)	2-Jan-20	36.03	IRWD Check	Reconciled
405105	Oldewage, Lars D (Lars)	2-Jan-20	156.27	IRWD Check	Reconciled
405106	AT&T	2-Jan-20	831.37	IRWD Check	Reconciled
405107	CONSTELLATION NEWENERGY, INC.	2-Jan-20	11,760.75	IRWD Check	Reconciled
405108	FRONTIER CALIFORNIA INC.	2-Jan-20	233.15	IRWD Check	Reconciled
405109	GEOCON WEST, INC.	2-Jan-20	1,597.50	IRWD Check	Reconciled
405110	IOSM, INC.	2-Jan-20	243.00	IRWD Check	Reconciled
405111	IRWD-PETTY CASH CUSTODIAN	2-Jan-20	986.91	IRWD Check	Reconciled
405112	SOUTHERN CALIFORNIA EDISON COMPANY	2-Jan-20	96.28	IRWD Check	Reconciled
405113	SOUTHERN CALIFORNIA EDISON COMPANY	2-Jan-20	170,618.89	IRWD Check	Reconciled
405114	VERIZON WIRELESS SERVICES LLC	2-Jan-20	1,676.35	IRWD Check	Reconciled
405115	Flotho, Eric (Eric)	6-Jan-20	568.89	IRWD Check	Reconciled
405116	THE DEACON FAMILY TRUST	6-Jan-20	1,837.74	IRWD Check	Reconciled
405117	INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS LOCAL 47	6-Jan-20	2,672.75	IRWD Check	Reconciled
405118	STATE OF CALIFORNIA, EDD	6-Jan-20	75.00	IRWD Check	Reconciled



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

<b>CHECK OR ELECTRONIC #</b>	<b>SUPPLIERS</b>	<b>PAYMENT DATE</b>	<b>PAYMENT AMOUNT</b>	<b>PAYMENT METHOD</b>	<b>STATUS</b>
405119	ORANGE COUNTY SHERIFF'S OFFICE	6-Jan-20	174.50	IRWD Check	Reconciled
405120	FRANCHISE TAX BOARD	6-Jan-20	473.86	IRWD Check	Reconciled
405121	PERS LONG TERM CARE	6-Jan-20	538.89	IRWD Check	Reconciled
405122	JCI JONES CHEMICALS INC	7-Jan-20	4,898.75	IRWD Check	Reconciled
405123	Burk, Rachael	9-Jan-20	45.00	IRWD Check	Reconciled
405124	Colston, James	9-Jan-20	1,226.09	IRWD Check	Reconciled
405125	Gallegos, Adriel	9-Jan-20	200.00	IRWD Check	Reconciled
405126	Hartoog, Jeremy	9-Jan-20	200.00	IRWD Check	Reconciled
405127	Hufana, Mr. Eugenio D II (Gino)	9-Jan-20	147.32	IRWD Check	Reconciled
405128	Nash, Joel	9-Jan-20	277.00	IRWD Check	Reconciled
405129	Pan, Jenny W (Jenny)	9-Jan-20	30.32	IRWD Check	Negotiable
405130	Roney, Jenny Lauren	9-Jan-20	46.41	IRWD Check	Reconciled
405131	Srader, Lisa	9-Jan-20	62.64	IRWD Check	Reconciled
405132	ACCUSOURCE, INC.	9-Jan-20	249.10	IRWD Check	Reconciled
405133	ADAM'S FALCONRY SERVICE, LLC	9-Jan-20	2,080.00	IRWD Check	Reconciled
405134	ALL AMERICAN ASPHALT	9-Jan-20	1,564.00	IRWD Check	Reconciled
405135	ALLIED ELECTRONICS INC	9-Jan-20	1,753.42	IRWD Check	Reconciled
405136	ALYANAKIAN, KARINE	9-Jan-20	418.13	IRWD Check	Reconciled
405137	AMAZON CAPITAL SERVICES, INC.	9-Jan-20	2,918.47	IRWD Check	Reconciled
405138	AMERICAN GEOTECHNICAL, INC.	9-Jan-20	3,193.75	IRWD Check	Reconciled
405139	AMERICAN WATER CHEMICALS, INC.	9-Jan-20	2,286.99	IRWD Check	Reconciled
405140	ANDERSONPENNA PARTNERS, INC.	9-Jan-20	70,962.00	IRWD Check	Reconciled
405141	APEX SYSTEMS, LLC	9-Jan-20	4,088.76	IRWD Check	Reconciled
405142	ASHFORD, WALT	9-Jan-20	271.35	IRWD Check	Reconciled
405143	AT&T	9-Jan-20	724.95	IRWD Check	Reconciled
405144	AT&T	9-Jan-20	4,543.18	IRWD Check	Reconciled
405145	AUTOZONE PARTS, INC.	9-Jan-20	400.53	IRWD Check	Reconciled
405146	AVISTA TECHNOLOGIES, INC	9-Jan-20	2,500.00	IRWD Check	Reconciled
405147	B & K ELECTRIC WHOLESALE	9-Jan-20	6,276.16	IRWD Check	Reconciled
405148	BARTON, LOUKAS	9-Jan-20	401.30	IRWD Check	Reconciled
405149	BECKER, MICHELLE	9-Jan-20	178.76	IRWD Check	Reconciled
405150	BEST MANAGEMENT CONSTRUCTION, INC.	9-Jan-20	1,252.58	IRWD Check	Reconciled
405151	BILL'S SWEEPING SERVICE INC	9-Jan-20	975.00	IRWD Check	Reconciled
405152	BIO-ACOUSTICAL CORP.	9-Jan-20	420.00	IRWD Check	Reconciled
405153	BIRNBAUM, SIDNEY	9-Jan-20	300.15	IRWD Check	Reconciled
405154	BLACK & VEATCH CORPORATION	9-Jan-20	10,042.00	IRWD Check	Reconciled
405155	BOOT WORLD, INC.	9-Jan-20	3,062.68	IRWD Check	Reconciled
405156	BOYD & ASSOCIATES	9-Jan-20	651.00	IRWD Check	Reconciled
405157	BRIGHTVIEW LANDSCAPE DEVELOPMENT	9-Jan-20	1,523.51	IRWD Check	Negotiable
405158	BROOKFIELD ENCLAVE LLC- 10036	9-Jan-20	1,440.00	IRWD Check	Reconciled
405159	BROWN AND CALDWELL	9-Jan-20	210,649.62	IRWD Check	Reconciled
405160	BSI SERVICES AND SOLUTIONS (WEST) INC.	9-Jan-20	795.00	IRWD Check	Reconciled
405161	BURKE, WILLIAMS & SORENSEN, LLP	9-Jan-20	975.00	IRWD Check	Reconciled
405162	C WELLS PIPELINE MATERIALS INC	9-Jan-20	4,917.72	IRWD Check	Reconciled
405163	CALIFORNIA BARRICADE RENTAL, INC.	9-Jan-20	12,722.16	IRWD Check	Reconciled
405164	CANON SOLUTIONS AMERICA, INC.	9-Jan-20	793.33	IRWD Check	Reconciled
405165	CAPTIVE AUDIENCE MARKETING INC.	9-Jan-20	79.00	IRWD Check	Reconciled
405166	CAROLLO ENGINEERS, INC	9-Jan-20	10,884.00	IRWD Check	Reconciled
405167	CDW GOVERNMENT LLC	9-Jan-20	432.08	IRWD Check	Reconciled
405168	CITY OF ORANGE	9-Jan-20	161.60	IRWD Check	Reconciled
405169	CLEAN ENERGY	9-Jan-20	5,392.07	IRWD Check	Reconciled
405170	CLEANTECH SERVICES LLC	9-Jan-20	1,840.55	IRWD Check	Negotiable
405171	CLIFFORD MORIYAMA	9-Jan-20	4,000.00	IRWD Check	Reconciled
405172	CONSTELLATION NEWENERGY, INC.	9-Jan-20	21,540.82	IRWD Check	Reconciled
405173	CORELOGIC INC	9-Jan-20	48.11	IRWD Check	Reconciled
405174	COUNTY OF ORANGE	9-Jan-20	224.00	IRWD Check	Reconciled
405175	COX COMMUNICATIONS, INC.	9-Jan-20	265.62	IRWD Check	Reconciled

**IRVINE RANCH WATER DISTRICT  
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405176	CRESCENT CHEMICAL CO.	9-Jan-20	564.24	IRWD Check	Reconciled
405177	D & H WATER SYSTEMS INC.	9-Jan-20	1,322.90	IRWD Check	Reconciled
405178	DATASITE INC	9-Jan-20	2,614.00	IRWD Check	Reconciled
405179	DE VAUL PAINT COMPANY	9-Jan-20	824.72	IRWD Check	Reconciled
405180	DELL MARKETING LP	9-Jan-20	110,615.74	IRWD Check	Reconciled
405181	DENALI WATER SOLUTIONS LLC	9-Jan-20	7,076.92	IRWD Check	Reconciled
405182	DEPARTMENT OF INDUSTRIAL RELATIONS STATE OF CALIFORNIA	9-Jan-20	225.00	IRWD Check	Reconciled
405183	DOUGLAS ENVIRONMENTAL GROUP INC	9-Jan-20	1,375.00	IRWD Check	Reconciled
405184	DPR SOUTHERN CALIFORNIA	9-Jan-20	2,011.86	IRWD Check	Reconciled
405185	EAGLE PRINT DYNAMICS	9-Jan-20	1,543.37	IRWD Check	Reconciled
405186	EAST ORANGE COUNTY WATER DISTRICT	9-Jan-20	66,910.22	IRWD Check	Reconciled
405187	EI&C ENGINEERING INC	9-Jan-20	47,398.88	IRWD Check	Reconciled
405188	ENTERPRISE HOLDINGS, INC.	9-Jan-20	51,120.00	IRWD Check	Reconciled
405189	ENVIRONMENTAL RESOURCE ASSOCIATES	9-Jan-20	526.96	IRWD Check	Reconciled
405190	EUROFINS EATON ANALYTICAL, INC.	9-Jan-20	300.00	IRWD Check	Reconciled
405191	EXECUTIVE LIGHTING & ELECTRIC	9-Jan-20	332.50	IRWD Check	Reconciled
405192	FARRELL & ASSOCIATES	9-Jan-20	1,965.19	IRWD Check	Reconciled
405193	FEDEX	9-Jan-20	362.66	IRWD Check	Reconciled
405194	FERGUSON ENTERPRISES, LLC	9-Jan-20	2,479.33	IRWD Check	Reconciled
405195	FIRST AMERICAN TITLE CO.	9-Jan-20	750.00	IRWD Check	Reconciled
405196	FIRST CHOICE SERVICES	9-Jan-20	492.54	IRWD Check	Reconciled
405197	FISHER SCIENTIFIC COMPANY LLC	9-Jan-20	11,150.28	IRWD Check	Reconciled
405198	FLEET SOLUTIONS LLC	9-Jan-20	5,165.03	IRWD Check	Reconciled
405199	FLEXIBLE LIFELINE SYSTEMS	9-Jan-20	34,742.34	IRWD Check	Reconciled
405200	FOUGHT, CYNTHIA J.	9-Jan-20	2,670.55	IRWD Check	Reconciled
405201	FYDAQ COMPANY INC.	9-Jan-20	2,330.00	IRWD Check	Reconciled
405202	GJ AUTOMOTIVE EQUIPMENT CO INC	9-Jan-20	2,440.50	IRWD Check	Reconciled
405203	GRAINGER	9-Jan-20	4,516.45	IRWD Check	Reconciled
405204	GRAYBAR ELECTRIC COMPANY	9-Jan-20	2,975.73	IRWD Check	Reconciled
405205	HAAKER EQUIPMENT COMPANY	9-Jan-20	262.50	IRWD Check	Reconciled
405206	HABITAT RESTORATION SCIENCES, INC	9-Jan-20	1,189.61	IRWD Check	Reconciled
405207	HACH COMPANY	9-Jan-20	8,046.21	IRWD Check	Reconciled
405208	HARDY & HARPER, INC.	9-Jan-20	7,880.00	IRWD Check	Reconciled
405209	HARMSWORTH ASSOCIATES	9-Jan-20	6,811.00	IRWD Check	Reconciled
405210	HAZEN AND SAWYER	9-Jan-20	2,860.00	IRWD Check	Reconciled
405211	HDR ENGINEERING INC	9-Jan-20	24,418.69	IRWD Check	Reconciled
405212	HELPMATES STAFFING SERVICES	9-Jan-20	13,123.41	IRWD Check	Reconciled
405213	HGCPM, INC	9-Jan-20	5,390.96	IRWD Check	Reconciled
405214	HI-LINE INC	9-Jan-20	197.24	IRWD Check	Reconciled
405215	HILL BROTHERS CHEMICAL COMPANY	9-Jan-20	6,771.40	IRWD Check	Reconciled
405216	HOME DEPOT USA INC	9-Jan-20	25.28	IRWD Check	Reconciled
405217	HOPKINS TECHNICAL PRODUCTS INC	9-Jan-20	599.75	IRWD Check	Reconciled
405218	HSG INC	9-Jan-20	1,744.00	IRWD Check	Reconciled
405219	HYDRANAUTICS	9-Jan-20	5,961.66	IRWD Check	Reconciled
405220	INNOVYZE, INC.	9-Jan-20	18,565.31	IRWD Check	Reconciled
405221	IRON MOUNTAIN INFORMATION MANAGEMENT INC	9-Jan-20	1,699.15	IRWD Check	Reconciled
405222	IRVINE COMMUNITY DEVELOPMENT COMPANY LLC	9-Jan-20	94,330.23	IRWD Check	Reconciled
405223	IRVINE PIPE & SUPPLY INC	9-Jan-20	2,481.08	IRWD Check	Negotiable
405224	IRWD-PETTY CASH CUSTODIAN	9-Jan-20	909.39	IRWD Check	Reconciled
405225	JCI JONES CHEMICALS INC	9-Jan-20	11,891.97	IRWD Check	Reconciled
405226	JENSEN PRECAST	9-Jan-20	1,111.98	IRWD Check	Reconciled
405227	JOHNSTONE SUPPLY SANTA ANA	9-Jan-20	125.59	IRWD Check	Reconciled
405228	KAESER COMPRESSORS, INC.	9-Jan-20	6,363.75	IRWD Check	Reconciled
405229	KAI IWI HOLDINGS	9-Jan-20	402.43	IRWD Check	Reconciled
405230	KAN VENTURES, INC	9-Jan-20	13,000.00	IRWD Check	Reconciled
405231	KOURY ENGINEERING & TESTING, INC.	9-Jan-20	2,267.00	IRWD Check	Reconciled
405232	LANDCARE HOLDINGS, INC.	9-Jan-20	73,883.41	IRWD Check	Reconciled

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405233	LEED ELECTRIC, INC.	9-Jan-20	9,010.50	IRWD Check	Reconciled
405234	LENNAR HOMES	9-Jan-20	389.68	IRWD Check	Reconciled
405235	LIEBERT CASSIDY WHITMORE	9-Jan-20	8,535.00	IRWD Check	Reconciled
405236	LUBRICATION ENGINEERS, INC.	9-Jan-20	493.44	IRWD Check	Reconciled
405237	MAHLE, DENNIS	9-Jan-20	61.68	IRWD Check	Negotiable
405238	MBF CONSULTING, INC.	9-Jan-20	6,266.40	IRWD Check	Reconciled
405239	MC FADDEN-DALE INDUSTRIAL	9-Jan-20	429.36	IRWD Check	Reconciled
405240	MC MASTER CARR SUPPLY CO	9-Jan-20	591.15	IRWD Check	Reconciled
405241	MICHAEL BAKER INTERNATIONAL, INC.	9-Jan-20	450.00	IRWD Check	Reconciled
405242	MICHELE CHAVIS-LOVING	9-Jan-20	262.44	IRWD Check	Reconciled
405243	MOBILE MODULAR MANAGEMENT CORPORATION	9-Jan-20	1,212.19	IRWD Check	Reconciled
405244	MPULSE MOBILE, INC	9-Jan-20	156.58	IRWD Check	Reconciled
405245	MR CRANE INC	9-Jan-20	4,991.30	IRWD Check	Reconciled
405246	MYERS & SONS HI-WAY SAFETY, INC.	9-Jan-20	2,605.40	IRWD Check	Reconciled
405247	NATIONAL READY MIXED CONCRETE SALES, LLC	9-Jan-20	946.99	IRWD Check	Reconciled
405248	NATURALWELL, LLC	9-Jan-20	550.00	IRWD Check	Reconciled
405249	NATURES IMAGE INC	9-Jan-20	9,026.00	IRWD Check	Reconciled
405250	NCL OF WISCONSIN INC	9-Jan-20	234.59	IRWD Check	Reconciled
405251	NEPTUNE TECHNOLOGY GROUP, INC.	9-Jan-20	38,531.40	IRWD Check	Reconciled
405252	NEWPORT REAL ESTATE SERVICES	9-Jan-20	13,100.00	IRWD Check	Reconciled
405253	NINYO & MOORE	9-Jan-20	899.25	IRWD Check	Reconciled
405254	NMG GEOTECHNICAL INC	9-Jan-20	13,053.65	IRWD Check	Reconciled
405255	NOVACOAST INC	9-Jan-20	6,900.00	IRWD Check	Reconciled
405256	O.C. SUPERIOR CUSTOM CLEANING	9-Jan-20	4,640.00	IRWD Check	Reconciled
405257	OC/LA PROPERTIES LLC	9-Jan-20	263.53	IRWD Check	Reconciled
405258	OLIN CORPORATION	9-Jan-20	32,533.77	IRWD Check	Reconciled
405259	ONESOURCE DISTRIBUTORS LLC	9-Jan-20	1,492.30	IRWD Check	Reconciled
405260	ORANGE COUNTY AUTO PARTS CO	9-Jan-20	820.17	IRWD Check	Reconciled
405261	ORANGE COUNTY MOSQUITO AND VECTOR CONTROL DISTRICT	9-Jan-20	90.92	IRWD Check	Reconciled
405262	PACIFIC PARTS & CONTROLS INC	9-Jan-20	4,417.31	IRWD Check	Reconciled
405263	PALAZZO, JEROLD	9-Jan-20	97.38	IRWD Check	Reconciled
405264	PARKWAY LAWNMOWER SHOP	9-Jan-20	20.46	IRWD Check	Reconciled
405265	PAULUS ENGINEERING INC	9-Jan-20	80,064.54	IRWD Check	Reconciled
405266	PAYNE & FEARS LLP	9-Jan-20	172.50	IRWD Check	Reconciled
405267	PCL CONSTRUCTION, INC.	9-Jan-20	71,699.00	IRWD Check	Reconciled
405268	PERKINELMER HEALTH SCIENCES INC	9-Jan-20	647.25	IRWD Check	Reconciled
405269	PETRUSSE-NORRIS PAINTING, INC.	9-Jan-20	7,933.00	IRWD Check	Reconciled
405270	PIVOT INTERIORS INC	9-Jan-20	8,355.93	IRWD Check	Reconciled
405271	PLUMBERS DEPOT INC.	9-Jan-20	195.51	IRWD Check	Reconciled
405272	PONTO AND SON'S WHOLESALE	9-Jan-20	780.71	IRWD Check	Reconciled
405273	PORTRAIT CONSTRUCTION INC	9-Jan-20	2,600.00	IRWD Check	Reconciled
405274	PRAXAIR DISTRIBUTION INC	9-Jan-20	1,005.67	IRWD Check	Reconciled
405275	PRO MOBILE AUTO DETAILING	9-Jan-20	300.00	IRWD Check	Reconciled
405276	PROCARE WORK INJURY CENTER	9-Jan-20	900.00	IRWD Check	Reconciled
405277	PRUFTECHNIK INC	9-Jan-20	6,201.00	IRWD Check	Reconciled
405278	PTI SAND & GRAVEL INC	9-Jan-20	1,897.88	IRWD Check	Reconciled
405279	QUINTANA, WATTS & HARTMANN, LLC	9-Jan-20	5,000.00	IRWD Check	Reconciled
405280	RED WING SHOE STORE	9-Jan-20	174.01	IRWD Check	Reconciled
405281	RELIANCE SAFETY CONSULTANTS, INC.	9-Jan-20	1,684.56	IRWD Check	Reconciled
405282	RESTEK CORPORATION	9-Jan-20	277.07	IRWD Check	Reconciled
405283	RINCON TRUCK CENTER INC.	9-Jan-20	266.10	IRWD Check	Reconciled
405284	RLG ENTERPRISES, INC	9-Jan-20	795.26	IRWD Check	Reconciled
405285	RNP INC	9-Jan-20	1,352.28	IRWD Check	Negotiable
405286	ROSEDALE - RIO BRAVO WATER STORAGE DISTRICT	9-Jan-20	50,000.00	IRWD Check	Reconciled
405287	ROYAL WHOLESALE ELECTRIC	9-Jan-20	2,338.39	IRWD Check	Reconciled
405288	SAFETY CENTER INCORPORATED	9-Jan-20	1,400.00	IRWD Check	Reconciled
405289	SANTA MARGARITA FORD	9-Jan-20	127.87	IRWD Check	Reconciled

**IRVINE RANCH WATER DISTRICT  
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405290	SCHINDLER ELEVATOR CORPORATION	9-Jan-20	221.90	IRWD Check	Reconciled
405291	SECURITAS SECURITY SERVICES USA, INC.	9-Jan-20	66,002.04	IRWD Check	Reconciled
405292	SELECT EQUIPMENT SALES INC.	9-Jan-20	91,595.58	IRWD Check	Reconciled
405293	SHAMROCK SUPPLY CO INC	9-Jan-20	68.66	IRWD Check	Reconciled
405294	SIGMA-ALDRICH INC	9-Jan-20	263.34	IRWD Check	Reconciled
405295	SOUTHERN CALIFORNIA EDISON COMPANY	9-Jan-20	12,600.00	IRWD Check	Reconciled
405296	SOUTHERN CALIFORNIA EDISON COMPANY	9-Jan-20	115,647.96	IRWD Check	Reconciled
405297	SPARKLETTS	9-Jan-20	355.59	IRWD Check	Reconciled
405298	SULZER ELECTRO-MECHANICAL SERVICES (US) INC.	9-Jan-20	25,802.36	IRWD Check	Reconciled
405299	SUMMIT CHEMICAL SPECIALTY PRODUCTS	9-Jan-20	12,109.44	IRWD Check	Reconciled
405300	SUNSHINE SUPPLY COMPANY, INC.	9-Jan-20	1,482.81	IRWD Check	Reconciled
405301	TETRA TECH, INC	9-Jan-20	11,831.00	IRWD Check	Reconciled
405302	THOMAS HARDER & CO	9-Jan-20	2,595.00	IRWD Check	Reconciled
405303	THYSSENKRUPP ELEVATOR CORPORATION	9-Jan-20	204.74	IRWD Check	Reconciled
405304	TITUS INDUSTRIAL GROUP, INC.	9-Jan-20	8,772.78	IRWD Check	Reconciled
405305	TOTAL RESOURCE MANAGEMENT, INC.	9-Jan-20	1,275.00	IRWD Check	Reconciled
405306	TROPICAL PLAZA NURSERY INC	9-Jan-20	3,363.00	IRWD Check	Reconciled
405307	TRUCPARCO	9-Jan-20	776.33	IRWD Check	Reconciled
405308	UNITED SITE SERVICES OF CALIFORNIA INC	9-Jan-20	1,455.19	IRWD Check	Reconciled
405309	UNIVAR SOLUTIONS USA INC.	9-Jan-20	4,598.00	IRWD Check	Reconciled
405310	VERIZON WIRELESS SERVICES LLC	9-Jan-20	6,211.18	IRWD Check	Reconciled
405311	VERTECH INDUSTRIAL SYSTEMS, LLC	9-Jan-20	11,435.08	IRWD Check	Reconciled
405312	VHG LABS, INC	9-Jan-20	744.93	IRWD Check	Reconciled
405313	VULCAN MATERIALS COMPANY	9-Jan-20	1,471.34	IRWD Check	Reconciled
405314	VWR INTERNATIONAL, LLC	9-Jan-20	2,449.90	IRWD Check	Reconciled
405315	WARD, WILLIAM P JR.	9-Jan-20	1,291.46	IRWD Check	Reconciled
405316	WASTE MANAGEMENT OF ORANGE COUNTY	9-Jan-20	2,914.78	IRWD Check	Reconciled
405317	WAXIE'S ENTERPRISES, INC	9-Jan-20	1,389.62	IRWD Check	Reconciled
405318	WECK LABORATORIES INC	9-Jan-20	2,085.00	IRWD Check	Reconciled
405319	WEST YOST & ASSOCIATES, INC	9-Jan-20	1,603.00	IRWD Check	Reconciled
405320	WETHERGAGE MANAGEMENT	9-Jan-20	166.07	IRWD Check	Negotiable
405321	YP LLC	9-Jan-20	92.21	IRWD Check	Reconciled
405322	ZEBRON CONTRACTING INC	9-Jan-20	20,000.00	IRWD Check	Reconciled
405323	COUNTY OF ORANGE	14-Jan-20	13,453.35	IRWD Check	Reconciled
405324	COUNTY OF ORANGE	14-Jan-20	7,195.25	IRWD Check	Reconciled
405325	Castaneda, Natalie N (Natalie)	16-Jan-20	52.20	IRWD Check	Negotiable
405326	Cho, Harry K (Harry)	16-Jan-20	45.00	IRWD Check	Reconciled
405327	Fabris, John	16-Jan-20	105.12	IRWD Check	Reconciled
405328	Haney, Lisa	16-Jan-20	54.52	IRWD Check	Reconciled
405329	Ho, Connie	16-Jan-20	27.44	IRWD Check	Reconciled
405330	Kanady, Jacob	16-Jan-20	89.00	IRWD Check	Negotiable
405331	Matheis, Mary Aileen	16-Jan-20	471.86	IRWD Check	Reconciled
405332	McNulty, Amy K (Amy)	16-Jan-20	243.60	IRWD Check	Reconciled
405333	Mwe, Nang	16-Jan-20	192.00	IRWD Check	Reconciled
405334	Orozco, Gustavo A (Gus)	16-Jan-20	188.51	IRWD Check	Reconciled
405335	Orozco, Linda	16-Jan-20	286.00	IRWD Check	Reconciled
405336	Swan, Peer	16-Jan-20	2,408.29	IRWD Check	Reconciled
405337	ADS LLC	16-Jan-20	2,250.00	IRWD Check	Reconciled
405338	AEGIS ENGINEERING MANAGEMENT, INC.	16-Jan-20	320.00	IRWD Check	Reconciled
405339	AGILENT TECHNOLOGIES, INC.	16-Jan-20	1,822.64	IRWD Check	Reconciled
405340	AIR RESOURCES BOARD	16-Jan-20	735.00	IRWD Check	Reconciled
405341	AIRGAS, INC.	16-Jan-20	648.20	IRWD Check	Reconciled
405342	ALEXANDER'S CONTRACT SERVICES, INC.	16-Jan-20	121,822.00	IRWD Check	Reconciled
405343	ALLIED ELECTRONICS INC	16-Jan-20	1,069.39	IRWD Check	Reconciled
405344	ALPHA OMEGA CONSTRUCTORS	16-Jan-20	1,000.00	IRWD Check	Reconciled
405345	AMAZON CAPITAL SERVICES, INC.	16-Jan-20	1,761.66	IRWD Check	Reconciled
405346	AMINOZZAKERI, AHMAD	16-Jan-20	38.39	IRWD Check	Negotiable

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

<b>CHECK OR ELECTRONIC #</b>	<b>SUPPLIERS</b>	<b>PAYMENT DATE</b>	<b>PAYMENT AMOUNT</b>	<b>PAYMENT METHOD</b>	<b>STATUS</b>
405347	ANIXTER INC	16-Jan-20	23,761.97	IRWD Check	Reconciled
405348	ANTHONY N. LARSEN	16-Jan-20	450.00	IRWD Check	Reconciled
405349	APEX SYSTEMS, LLC	16-Jan-20	1,950.00	IRWD Check	Reconciled
405350	AT&T	16-Jan-20	7,140.62	IRWD Check	Reconciled
405351	AT&T	16-Jan-20	65.01	IRWD Check	Reconciled
405352	AT&T	16-Jan-20	1,666.07	IRWD Check	Reconciled
405353	AUTOZONE PARTS, INC.	16-Jan-20	1,732.74	IRWD Check	Reconciled
405354	AVELLA APARTMENTS	16-Jan-20	133.38	IRWD Check	Reconciled
405355	BARRY SAYWITZ PROPERTIES TWO LP	16-Jan-20	23.61	IRWD Check	Reconciled
405356	BAVCO BACKFLOW APPARATUS & VALVE COMPANY	16-Jan-20	423.00	IRWD Check	Reconciled
405357	BDC SPECIAL WASTE	16-Jan-20	465.00	IRWD Check	Reconciled
405358	BIOTAGE LLC	16-Jan-20	488.97	IRWD Check	Reconciled
405359	BLACK & VEATCH CORPORATION	16-Jan-20	673,864.39	IRWD Check	Reconciled
405360	BRENNTAG PACIFIC INC	16-Jan-20	22,142.03	IRWD Check	Reconciled
405361	BROWN AND CALDWELL	16-Jan-20	8,351.04	IRWD Check	Reconciled
405362	BRUCE HADLEY NEWELL	16-Jan-20	1,250.00	IRWD Check	Reconciled
405363	BURKE, WILLIAMS & SORENSEN, LLP	16-Jan-20	650.00	IRWD Check	Reconciled
405364	C WELLS PIPELINE MATERIALS INC	16-Jan-20	23,539.13	IRWD Check	Reconciled
405365	CALIFORNIA BARRICADE RENTAL, INC.	16-Jan-20	14,401.70	IRWD Check	Reconciled
405366	CALIFORNIA PACIFIC HOMES	16-Jan-20	12.77	IRWD Check	Negotiable
405367	CANON SOLUTIONS AMERICA, INC.	16-Jan-20	136.80	IRWD Check	Reconciled
405368	CAROLLO ENGINEERS, INC	16-Jan-20	19,472.25	IRWD Check	Reconciled
405369	CARPENA, FEDERICO	16-Jan-20	169.37	IRWD Check	Reconciled
405370	CDW GOVERNMENT LLC	16-Jan-20	3,284.36	IRWD Check	Reconciled
405371	CERNO LLC	16-Jan-20	105.73	IRWD Check	Reconciled
405372	CHAIREL CUSTOM HAY, INC.	16-Jan-20	835.92	IRWD Check	Reconciled
405373	CHEM TECH INTERNATIONAL INC	16-Jan-20	5,728.38	IRWD Check	Reconciled
405374	CHO DESIGN ASSOCIATES, INC	16-Jan-20	400.00	IRWD Check	Reconciled
405375	CITY CIRCUIT BREAKERS	16-Jan-20	3,960.32	IRWD Check	Reconciled
405376	CONSTELLATION NEWENERGY, INC.	16-Jan-20	63,914.25	IRWD Check	Reconciled
405377	COUNTY OF ORANGE	16-Jan-20	24,179.25	IRWD Check	Reconciled
405378	CR & R INCORPORATED	16-Jan-20	255.25	IRWD Check	Reconciled
405379	CULLIGAN OF SANTA ANA	16-Jan-20	22,000.00	IRWD Check	Reconciled
405380	CYPRESS VILLAGE VENETO	16-Jan-20	423.51	IRWD Check	Reconciled
405381	DARTDRONES, LLC	16-Jan-20	17,500.00	IRWD Check	Reconciled
405382	DDB ENGINEERING, INC.	16-Jan-20	5,535.00	IRWD Check	Reconciled
405383	DILYTICS INC	16-Jan-20	67,200.00	IRWD Check	Reconciled
405384	DISCOVERY SCIENCE CENTER OF ORANGE COUNTY	16-Jan-20	11,754.41	IRWD Check	Reconciled
405385	DONG, QIN	16-Jan-20	45.06	IRWD Check	Negotiable
405386	E&M ELECTRIC AND MACHINERY, INC.	16-Jan-20	128,030.00	IRWD Check	Reconciled
405387	EVERETT DOREY LLP	16-Jan-20	9,002.93	IRWD Check	Reconciled
405388	EXECUTIVE LIGHTING & ELECTRIC	16-Jan-20	4,842.59	IRWD Check	Reconciled
405389	FARWEST CORROSION CONTROL COMPANY	16-Jan-20	5,484.84	IRWD Check	Reconciled
405390	FEDEX	16-Jan-20	83.19	IRWD Check	Reconciled
405391	FERGUSON ENTERPRISES, LLC	16-Jan-20	15,334.99	IRWD Check	Reconciled
405392	FIRE EXTINGUISHING SAFETY & SERVICE	16-Jan-20	901.55	IRWD Check	Reconciled
405393	FISERV	16-Jan-20	294.30	IRWD Check	Reconciled
405394	FISHER SCIENTIFIC COMPANY LLC	16-Jan-20	582.20	IRWD Check	Reconciled
405395	FLEXICARE INC.	16-Jan-20	100.50	IRWD Check	Reconciled
405396	FOX RESTAURANT	16-Jan-20	41.09	IRWD Check	Negotiable
405397	FRANCIS, TAKAKO	16-Jan-20	419.41	IRWD Check	Reconciled
405398	FRONTIER CALIFORNIA INC.	16-Jan-20	66.57	IRWD Check	Reconciled
405399	GARZA INDUSTRIES, INC	16-Jan-20	1,715.86	IRWD Check	Reconciled
405400	GLENN LUKOS ASSOCIATES INC.	16-Jan-20	175.45	IRWD Check	Reconciled
405401	GRAINGER	16-Jan-20	7,837.52	IRWD Check	Reconciled
405403	GRAYBAR ELECTRIC COMPANY	16-Jan-20	13,451.22	IRWD Check	Reconciled
405404	HAAKER EQUIPMENT COMPANY	16-Jan-20	3,130.08	IRWD Check	Reconciled

**IRVINE RANCH WATER DISTRICT  
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405405	HACH COMPANY	16-Jan-20	581.65	IRWD Check	Reconciled
405406	HARRINGTON INDUSTRIAL PLASTICS LLC	16-Jan-20	9,238.49	IRWD Check	Reconciled
405407	HDR ENGINEERING INC	16-Jan-20	9,220.79	IRWD Check	Reconciled
405408	HELPMATES STAFFING SERVICES	16-Jan-20	9,415.84	IRWD Check	Reconciled
405409	HERITAGE FIELDS EL TORO, LLC	16-Jan-20	169,081.06	IRWD Check	Negotiable
405410	HI-LINE INC	16-Jan-20	234.49	IRWD Check	Reconciled
405411	HILL BROTHERS CHEMICAL COMPANY	16-Jan-20	15,046.82	IRWD Check	Reconciled
405412	HOME DEPOT USA INC	16-Jan-20	35.51	IRWD Check	Reconciled
405413	HUANG, FENGSEN	16-Jan-20	85.42	IRWD Check	Reconciled
405414	IDEXX DISTRIBUTION, INC	16-Jan-20	316.25	IRWD Check	Reconciled
405415	INFOSEND, INC.	16-Jan-20	32,307.92	IRWD Check	Reconciled
405416	IRVINE PIPE & SUPPLY INC	16-Jan-20	1,282.49	IRWD Check	Reconciled
405417	IRWD-PETTY CASH CUSTODIAN	16-Jan-20	975.30	IRWD Check	Reconciled
405418	JIANG, YANPING	16-Jan-20	23.74	IRWD Check	Reconciled
405419	JIN, ZHENGJIU	16-Jan-20	308.10	IRWD Check	Reconciled
405420	JOE RHODES MAINT SERVICE INC	16-Jan-20	1,192.16	IRWD Check	Reconciled
405421	KAESER COMPRESSORS, INC.	16-Jan-20	1,654.92	IRWD Check	Reconciled
405422	KALRA, KAJAL	16-Jan-20	37.67	IRWD Check	Reconciled
405423	KELCHNER, BEN	16-Jan-20	37.65	IRWD Check	Reconciled
405424	KENNY THE PRINTER	16-Jan-20	724.08	IRWD Check	Reconciled
405425	KILL-N-BUGS TERMITE AND PEST CONTROL SERVICES	16-Jan-20	1,400.00	IRWD Check	Reconciled
405426	KLEINFELDER, INC.	16-Jan-20	5,130.00	IRWD Check	Reconciled
405427	KPRS CONSTRUCTION SERVICES, INC.	16-Jan-20	838,053.98	IRWD Check	Reconciled
405428	KRONICK MOSKOVITZ TIEDEMANN & GIRARD	16-Jan-20	3,016.85	IRWD Check	Reconciled
405429	ZIMA CORPORATION	16-Jan-20	674.91	IRWD Check	Reconciled
405430	LA HABRA FENCE COMPANY INC	16-Jan-20	778.00	IRWD Check	Reconciled
405431	LAGUNA BEACH COUNTY WATER DISTRICT	16-Jan-20	6,778.49	IRWD Check	Reconciled
405432	LANG, VIRGINIA	16-Jan-20	446.88	IRWD Check	Negotiable
405433	LAWSKY, MICHAEL	16-Jan-20	461.23	IRWD Check	Reconciled
405434	LAYFIELD USA CORP	16-Jan-20	81,304.56	IRWD Check	Reconciled
405435	LE, YI	16-Jan-20	304.21	IRWD Check	Reconciled
405436	LEE, KYOUNG EUN	16-Jan-20	1.84	IRWD Check	Negotiable
405437	LENNAR HOMES	16-Jan-20	316.99	IRWD Check	Reconciled
405438	LEWIS BRISBOIS BISGAARD AND SMITH, LLP	16-Jan-20	103,812.15	IRWD Check	Reconciled
405439	LIU, ROBERT	16-Jan-20	33.29	IRWD Check	Negotiable
405440	LOPATIN, SEMEN	16-Jan-20	156.13	IRWD Check	Reconciled
405441	LV, ZHUANGLI	16-Jan-20	87.24	IRWD Check	Negotiable
405442	MAGPLAI, ANTHONY	16-Jan-20	95.58	IRWD Check	Reconciled
405443	MARK KADESH	16-Jan-20	10,000.00	IRWD Check	Reconciled
405444	MARTIN, ROBERT	16-Jan-20	91.70	IRWD Check	Reconciled
405445	MC MASTER CARR SUPPLY CO	16-Jan-20	1,860.85	IRWD Check	Reconciled
405446	MICHAEL BAKER INTERNATIONAL, INC.	16-Jan-20	14,789.78	IRWD Check	Reconciled
405447	MICHELE CHAVIS-LOVING	16-Jan-20	1,249.80	IRWD Check	Reconciled
405448	MISSION COMMUNICATIONS, LLC	16-Jan-20	563.40	IRWD Check	Reconciled
405449	MUNICIPAL WATER DISTRICT OF ORANGE COUNTY	16-Jan-20	21,776.63	IRWD Check	Reconciled
405450	MUTUAL PROPANE	16-Jan-20	36.00	IRWD Check	Reconciled
405451	NALCO US 2 INC	16-Jan-20	301.01	IRWD Check	Reconciled
405452	NATIONAL READY MIXED CONCRETE SALES, LLC	16-Jan-20	1,557.02	IRWD Check	Reconciled
405453	NAUTILUS ENVIRONMENTAL, INC.	16-Jan-20	1,600.00	IRWD Check	Reconciled
405454	NGUYEN, AN	16-Jan-20	194.47	IRWD Check	Negotiable
405455	NGUYEN, EMIL	16-Jan-20	266.01	IRWD Check	Reconciled
405456	OC WELDING SERVICES	16-Jan-20	360.00	IRWD Check	Reconciled
405457	OCTA	16-Jan-20	3,176.00	IRWD Check	Reconciled
405458	OH, SEUNGTAEK	16-Jan-20	36.63	IRWD Check	Reconciled
405459	OLIN CORPORATION	16-Jan-20	20,506.46	IRWD Check	Reconciled
405460	ONESOURCE DISTRIBUTORS LLC	16-Jan-20	24,492.64	IRWD Check	Reconciled
405461	ORANGE COUNTY AUTO PARTS CO	16-Jan-20	1,504.75	IRWD Check	Reconciled

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405462	ORANGE COUNTY BUSINESS COUNCIL	16-Jan-20	1,500.00	IRWD Check	Reconciled
405463	ORANGE COUNTY HOSE	16-Jan-20	4,703.29	IRWD Check	Reconciled
405464	ORANGE COUNTY MOSQUITO AND VECTOR CONTROL DISTRICT	16-Jan-20	3,348.52	IRWD Check	Reconciled
405465	ORANGE COUNTY SANITATION DISTRICT	16-Jan-20	277,815.37	IRWD Check	Reconciled
405466	OUTSOURCE TECHNICAL LLC	16-Jan-20	12,815.00	IRWD Check	Reconciled
405467	PACIFIC COAST BOLT CORP	16-Jan-20	1,677.32	IRWD Check	Reconciled
405468	PACIFIC HYDROTECH CORPORATION	16-Jan-20	28,820.45	IRWD Check	Reconciled
405469	PACIFIC HYDROTECH CORPORATION	16-Jan-20	547,588.56	IRWD Check	Reconciled
405470	PAPER DEPOT DOCUMENT DESTRUCTION LLC	16-Jan-20	360.00	IRWD Check	Reconciled
405471	PARK, JUNG	16-Jan-20	30.45	IRWD Check	Reconciled
405472	PARKHOUSE TIRE INC	16-Jan-20	4,092.63	IRWD Check	Reconciled
405473	PASCAL & LUDWIG CONSTRUCTORS	16-Jan-20	5,496.08	IRWD Check	Reconciled
405474	PASCAL & LUDWIG CONSTRUCTORS	16-Jan-20	104,425.42	IRWD Check	Reconciled
405475	PENN ARCHIVE SERVICES	16-Jan-20	47.50	IRWD Check	Reconciled
405476	POLLARDWATER.COM	16-Jan-20	108.77	IRWD Check	Reconciled
405477	PRODATA COMPUTER SERVICES INC	16-Jan-20	870.00	IRWD Check	Reconciled
405478	PRUDENTIAL OVERALL SUPPLY	16-Jan-20	6,988.91	IRWD Check	Reconciled
405479	PSOMAS	16-Jan-20	3,320.00	IRWD Check	Reconciled
405480	PTI SAND & GRAVEL INC	16-Jan-20	665.58	IRWD Check	Reconciled
405481	PUIG, FRANK	16-Jan-20	49.99	IRWD Check	Reconciled
405482	PULTE GROUP	16-Jan-20	142.05	IRWD Check	Negotiable
405483	QUACH, WENDI	16-Jan-20	86.28	IRWD Check	Negotiable
405484	RAM AIR ENGINEERING INC	16-Jan-20	7,397.63	IRWD Check	Reconciled
405485	RCE CONSULTANTS, INC.	16-Jan-20	32,449.18	IRWD Check	Reconciled
405486	REDDY, MADHAVI	16-Jan-20	35.21	IRWD Check	Reconciled
405487	REFRIGERATION SUPPLIES DISTRIBUTOR	16-Jan-20	66.33	IRWD Check	Reconciled
405488	REGIONAL GOVERNMENT SERVICES AUTHORITY	16-Jan-20	4,250.00	IRWD Check	Reconciled
405489	RESTEK CORPORATION	16-Jan-20	299.12	IRWD Check	Reconciled
405490	RICHARD C. SLADE & ASSOCIATES LLC	16-Jan-20	952.23	IRWD Check	Reconciled
405491	RICHMOND AMERICAN HOMES OF MARYLAND, INC	16-Jan-20	36.61	IRWD Check	Reconciled
405492	RINCON TRUCK CENTER INC.	16-Jan-20	2,000.00	IRWD Check	Reconciled
405493	ROSE PAVING LLC	16-Jan-20	1,800.00	IRWD Check	Reconciled
405494	S&S SEEDS INC	16-Jan-20	1,148.14	IRWD Check	Reconciled
405495	SACRAMENTO RIVER WATERSHED PROGRAM	16-Jan-20	1,500.00	IRWD Check	Negotiable
405496	SANTA ANA BLUE PRINT	16-Jan-20	983.62	IRWD Check	Reconciled
405497	SANTA MARGARITA FORD	16-Jan-20	942.09	IRWD Check	Reconciled
405498	SEPARATION PROCESSES, INC.	16-Jan-20	764.75	IRWD Check	Reconciled
405499	SHAMROCK SUPPLY CO INC	16-Jan-20	370.26	IRWD Check	Reconciled
405500	SHERWIN WILLIAMS COMPANY	16-Jan-20	2,385.12	IRWD Check	Reconciled
405501	SIMI VALLEY LANDFILL AND RECYCLING CENTER	16-Jan-20	441.36	IRWD Check	Reconciled
405502	SKORUZ TECHNOLOGIES	16-Jan-20	15,510.00	IRWD Check	Reconciled
405503	SOROUGH, SHOKOUFEH	16-Jan-20	136.70	IRWD Check	Negotiable
405504	SOUTH BAY FOUNDRY, INC	16-Jan-20	3,825.13	IRWD Check	Reconciled
405505	SOUTH COAST WATER CO.	16-Jan-20	90.00	IRWD Check	Reconciled
405506	SOUTH COAST WATER DISTRICT	16-Jan-20	931.00	IRWD Check	Reconciled
405507	SOUTH ORANGE COUNTY REGIONAL CHAMBERS OF COMMERCE	16-Jan-20	2,500.00	IRWD Check	Negotiable
405508	SOUTHERN CALIFORNIA EDISON COMPANY	16-Jan-20	20,472.74	IRWD Check	Reconciled
405509	SOUTHERN CALIFORNIA GAS COMPANY	16-Jan-20	15,953.01	IRWD Check	Reconciled
405510	SPARKLETTS	16-Jan-20	63.36	IRWD Check	Reconciled
405511	STATE NET	16-Jan-20	2,446.26	IRWD Check	Reconciled
405512	STATE WATER RESOURCES CONTROL BOARD	16-Jan-20	1,021.00	IRWD Check	Reconciled
405513	STRADLING YOCCA CARLSON & RAUTH	16-Jan-20	868.00	IRWD Check	Reconciled
405514	STRAHL, CINDER	16-Jan-20	61.58	IRWD Check	Reconciled
405515	SUKLE ADVERTISING INC.	16-Jan-20	7,549.50	IRWD Check	Reconciled
405516	SWINERTON BUILDERS	16-Jan-20	3,472.13	IRWD Check	Reconciled
405517	TACHDJIAN, MATTHEW	16-Jan-20	1,065.39	IRWD Check	Negotiable
405518	TETRA TECH, INC	16-Jan-20	6,623.75	IRWD Check	Reconciled

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405519	TIC-OFFICE PROPERTIES	16-Jan-20	1,154.09	IRWD Check	Reconciled
405520	TIC-SPECTRUM OFFICE	16-Jan-20	105.86	IRWD Check	Reconciled
405521	TRI POINTE HOMES, INC.	16-Jan-20	102.26	IRWD Check	Reconciled
405522	TRIPAC MARKETING INC	16-Jan-20	1,312.91	IRWD Check	Reconciled
405523	TRUCPARCO	16-Jan-20	60.91	IRWD Check	Reconciled
405524	UCT, LLC	16-Jan-20	410.99	IRWD Check	Reconciled
405525	UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA	16-Jan-20	1,856.93	IRWD Check	Negotiable
405526	UNITED PARCEL SERVICE INC	16-Jan-20	110.41	IRWD Check	Reconciled
405527	UNIVAR SOLUTIONS USA INC.	16-Jan-20	4,494.00	IRWD Check	Reconciled
405528	VAUGHAN'S INDUSTRIAL REPAIR CO INC	16-Jan-20	72,882.99	IRWD Check	Reconciled
405529	WANG, ADAM	16-Jan-20	50.59	IRWD Check	Negotiable
405530	WANG, XINGYI	16-Jan-20	105.38	IRWD Check	Negotiable
405531	WARE MALCOMB	16-Jan-20	6,875.11	IRWD Check	Reconciled
405532	WASTE MANAGEMENT OF ORANGE COUNTY	16-Jan-20	2,419.57	IRWD Check	Reconciled
405533	WATER EDUCATION FOUNDATION	16-Jan-20	29,000.00	IRWD Check	Negotiable
405534	WAXIE'S ENTERPRISES, INC	16-Jan-20	2,465.44	IRWD Check	Reconciled
405535	WECK LABORATORIES INC	16-Jan-20	1,425.00	IRWD Check	Reconciled
405536	WEST COAST SAFETY SUPPLY INC	16-Jan-20	4,404.78	IRWD Check	Reconciled
405537	WEST YOST & ASSOCIATES, INC	16-Jan-20	17,020.00	IRWD Check	Reconciled
405538	WESTAMERICA COMMUNICATIONS, INC.	16-Jan-20	560.00	IRWD Check	Reconciled
405539	XU, KEYENG	16-Jan-20	42.28	IRWD Check	Reconciled
405540	XU, YINGZI	16-Jan-20	111.11	IRWD Check	Negotiable
405541	YORKVILLE INVESTMENTS LLC	16-Jan-20	307.91	IRWD Check	Reconciled
405542	ZHAO, CHRISTINE	16-Jan-20	3,071.18	IRWD Check	Negotiable
405543	SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT	16-Jan-20	3,448.52	IRWD Check	Negotiable
405544	GONZALEZ, PATRICIA	17-Jan-20	120.16	IRWD Check	Reconciled
405545	CALIFORNIA DEPARTMENT OF TAX AND FEE ADMINISTRATION	17-Jan-20	2,562.00	IRWD Check	Reconciled
405546	BEST DRILLING AND PUMP, INC.	17-Jan-20	54,435.00	IRWD Check	Reconciled
405547	PACIFIC HYDROTECH CORPORATION	17-Jan-20	15,206.85	IRWD Check	Negotiable
405548	PACIFIC HYDROTECH CORPORATION	17-Jan-20	288,930.15	IRWD Check	Reconciled
405549	STATE OF CALIFORNIA, EDD	17-Jan-20	75.00	IRWD Check	Reconciled
405550	ORANGE COUNTY SHERIFF'S OFFICE	17-Jan-20	174.50	IRWD Check	Reconciled
405551	FRANCHISE TAX BOARD	17-Jan-20	430.00	IRWD Check	Reconciled
405552	INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS LOCAL 47	17-Jan-20	2,672.75	IRWD Check	Reconciled
405553	PERS LONG TERM CARE	17-Jan-20	538.89	IRWD Check	Reconciled
405554	CALIFORNIA DEPARTMENT OF TAX AND FEE ADMINISTRATION	22-Jan-20	770.00	IRWD Check	Negotiable
405555	Bornhoff, Mike (Mike)	23-Jan-20	170.00	IRWD Check	Reconciled
405556	Chaney, David (Dave)	23-Jan-20	337.33	IRWD Check	Reconciled
405557	LaMar, Steven E	23-Jan-20	391.22	IRWD Check	Negotiable
405558	Moeder, Jacob J (Jacob)	23-Jan-20	56.93	IRWD Check	Negotiable
405559	Schulze, Richard W (Richard)	23-Jan-20	192.00	IRWD Check	Reconciled
405560	Swift, Ian P (Ian)	23-Jan-20	889.24	IRWD Check	Reconciled
405561	ACWA	23-Jan-20	12,000.00	IRWD Check	Reconciled
405562	AECOM TECHNICAL SERVICES, INC.	23-Jan-20	317,958.87	IRWD Check	Reconciled
405563	ALLIANCE AG SERVICES, INC.	23-Jan-20	3,000.00	IRWD Check	Reconciled
405564	ALLIED ELECTRONICS INC	23-Jan-20	2,423.43	IRWD Check	Reconciled
405565	AMAZON CAPITAL SERVICES, INC.	23-Jan-20	1,253.76	IRWD Check	Reconciled
405566	AMENY-LUTHI, IAN	23-Jan-20	28.30	IRWD Check	Reconciled
405567	ANAND, GUNJAN	23-Jan-20	22.76	IRWD Check	Negotiable
405568	ANDERSON'S NU POWER CO., INC	23-Jan-20	6,600.00	IRWD Check	Reconciled
405569	ANTHEM BLUE CROSS	23-Jan-20	234.65	IRWD Check	Reconciled
405570	ANTHEM BLUE CROSS	23-Jan-20	234.65	IRWD Check	Reconciled
405571	ARCADIS U.S., INC.	23-Jan-20	119,744.14	IRWD Check	Reconciled
405572	ARIZONA PIPELINE COMPANY	23-Jan-20	2,951.83	IRWD Check	Reconciled
405573	ASFAHANI, ALI	23-Jan-20	229.55	IRWD Check	Reconciled
405574	ASSOCIATED ELECTRICS INC	23-Jan-20	1,192.79	IRWD Check	Reconciled
405575	AT&T	23-Jan-20	7,070.84	IRWD Check	Reconciled



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<b>CHECK OR ELECTRONIC #</b>	<b>SUPPLIERS</b>	<b>PAYMENT DATE</b>	<b>PAYMENT AMOUNT</b>	<b>PAYMENT METHOD</b>	<b>STATUS</b>
405576	AT&T	23-Jan-20	173.55	IRWD Check	Reconciled
405577	ATHENS SERVICES	23-Jan-20	9,684.65	IRWD Check	Reconciled
405578	ATHENS SERVICES	23-Jan-20	2,005.12	IRWD Check	Reconciled
405579	AUTOZONE PARTS, INC.	23-Jan-20	237.81	IRWD Check	Reconciled
405580	BATTERY SYSTEMS INC	23-Jan-20	6,070.67	IRWD Check	Reconciled
405581	BELTEAU, MARK	23-Jan-20	40.00	IRWD Check	Reconciled
405582	BILL'S SWEEPING SERVICE INC	23-Jan-20	780.00	IRWD Check	Reconciled
405583	BORCHARD SURVEYING & MAPPING, INC.	23-Jan-20	2,710.00	IRWD Check	Negotiable
405584	BURLINGTON SAFETY LABORATORY OF CALIFORNIA INC	23-Jan-20	423.72	IRWD Check	Reconciled
405585	CALIFORNIA BARRICADE RENTAL, INC.	23-Jan-20	21,645.00	IRWD Check	Negotiable
405586	CALIFORNIA WATER EFFICIENCY PARTNERSHIP	23-Jan-20	10,000.00	IRWD Check	Negotiable
405587	CANON FINANCIAL SERVICES, INC	23-Jan-20	746.71	IRWD Check	Reconciled
405588	CAROLLO ENGINEERS, INC	23-Jan-20	25,708.00	IRWD Check	Reconciled
405589	CHARLES P CROWLEY COMPANY INC	23-Jan-20	10,800.04	IRWD Check	Reconciled
405590	CHEN, YUNFEN	23-Jan-20	47.15	IRWD Check	Negotiable
405591	CITY OF TUSTIN	23-Jan-20	250.00	IRWD Check	Reconciled
405592	CLA-VAL COMPANY	23-Jan-20	8,987.41	IRWD Check	Reconciled
405593	CONSTELLATION NEWENERGY, INC.	23-Jan-20	2,837.23	IRWD Check	Reconciled
405594	CONTROLLED KEY SYSTEMS INC	23-Jan-20	2,394.70	IRWD Check	Reconciled
405595	CORNELL COURT APTS	23-Jan-20	488.86	IRWD Check	Negotiable
405596	COUNTY OF ORANGE	23-Jan-20	2,146.25	IRWD Check	Reconciled
405597	CR & R INCORPORATED	23-Jan-20	2,299.29	IRWD Check	Reconciled
405598	CROFTS, ED	23-Jan-20	79.99	IRWD Check	Negotiable
405599	DATA CLEAN CORPORATION	23-Jan-20	840.00	IRWD Check	Reconciled
405600	DATASITE INC	23-Jan-20	5,288.00	IRWD Check	Negotiable
405601	DELL MARKETING LP	23-Jan-20	18,757.10	IRWD Check	Reconciled
405602	DIMERCURIO MONTI, KRISTA	23-Jan-20	1.29	IRWD Check	Reconciled
405603	DIRECTV INC	23-Jan-20	131.98	IRWD Check	Reconciled
405604	DISCOUNT COURIER SERVICE INC.	23-Jan-20	67.47	IRWD Check	Reconciled
405605	DUDE SOLUTIONS, INC.	23-Jan-20	8,682.19	IRWD Check	Reconciled
405606	DUDLEY RIDGE WATER DISTRICT	23-Jan-20	7,881.32	IRWD Check	Negotiable
405607	EISEL ENTERPRISES INC	23-Jan-20	3,607.47	IRWD Check	Reconciled
405608	EMERSON, NOLAN	23-Jan-20	26.91	IRWD Check	Negotiable
405609	ENVIRONMENTAL ENGINEERING AND CONTRACTING, INC.	23-Jan-20	9,900.00	IRWD Check	Reconciled
405610	FENG, LILI	23-Jan-20	18.76	IRWD Check	Negotiable
405611	FERGUSON ENTERPRISES, LLC	23-Jan-20	8,096.35	IRWD Check	Reconciled
405612	FIERRO, SERGIO D	23-Jan-20	5,787.89	IRWD Check	Reconciled
405613	FIONA HUTTON & ASSOCIATES, INC.	23-Jan-20	17,146.21	IRWD Check	Negotiable
405614	FISHER SCIENTIFIC COMPANY LLC	23-Jan-20	274.04	IRWD Check	Reconciled
405615	FRONTIER CALIFORNIA INC.	23-Jan-20	614.01	IRWD Check	Reconciled
405616	GALLADE CHEMICAL INC	23-Jan-20	1,068.88	IRWD Check	Reconciled
405617	GANAHL LUMBER CO.	23-Jan-20	193.66	IRWD Check	Reconciled
405618	GEI CONSULTANTS INC	23-Jan-20	3,793.50	IRWD Check	Reconciled
405619	GENTRY GENERAL ENGINEERING	23-Jan-20	1,416.87	IRWD Check	Reconciled
405620	GENTRY INVESTMENTS LLC	23-Jan-20	108.88	IRWD Check	Negotiable
405621	GEORGE HILLS COMPANY, INC.	23-Jan-20	37.50	IRWD Check	Reconciled
405622	GRAINGER	23-Jan-20	2,402.83	IRWD Check	Reconciled
405623	GU, LING XIAN	23-Jan-20	57.11	IRWD Check	Reconciled
405624	HABITAT RESTORATION SCIENCES, INC.	23-Jan-20	1,183.00	IRWD Check	Negotiable
405625	HACH COMPANY	23-Jan-20	365.60	IRWD Check	Reconciled
405626	HAMILTON, KURT	23-Jan-20	582.49	IRWD Check	Reconciled
405627	HARCROW CONSTRUCTION & MANAGEMENT, INC.	23-Jan-20	1,750.00	IRWD Check	Negotiable
405628	HARRINGTON INDUSTRIAL PLASTICS LLC	23-Jan-20	10,002.71	IRWD Check	Reconciled
405629	HART BROTHERS CONSTRUCTION INC	23-Jan-20	1,078.23	IRWD Check	Reconciled
405630	HARTFORD LIFE AND ACCIDENT INSURANCE COMPANY	23-Jan-20	108.45	IRWD Check	Reconciled
405631	HDR ENGINEERING INC	23-Jan-20	31,744.40	IRWD Check	Reconciled
405632	HELPMATES STAFFING SERVICES	23-Jan-20	15,072.44	IRWD Check	Reconciled

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

<b>CHECK OR ELECTRONIC #</b>	<b>SUPPLIERS</b>	<b>PAYMENT DATE</b>	<b>PAYMENT AMOUNT</b>	<b>PAYMENT METHOD</b>	<b>STATUS</b>
405633	HERC RENTALS INC.	23-Jan-20	600.49	IRWD Check	Reconciled
405634	HERITAGE FIELDS EL TORO, LLC	23-Jan-20	211,273.80	IRWD Check	Negotiable
405635	HILL BROTHERS CHEMICAL COMPANY	23-Jan-20	2,789.35	IRWD Check	Reconciled
405636	HOME DEPOT USA INC	23-Jan-20	784.17	IRWD Check	Reconciled
405637	HOPKINS TECHNICAL PRODUCTS INC	23-Jan-20	6,512.87	IRWD Check	Reconciled
405638	HOYA OPTICAL LABS OF AMERICA, INC.	23-Jan-20	211.00	IRWD Check	Reconciled
405639	HUMANA INSURANCE COMPANY	23-Jan-20	56.60	IRWD Check	Reconciled
405640	INDUSTRIAL METAL SUPPLY CO	23-Jan-20	465.05	IRWD Check	Reconciled
405641	INFOSEND, INC.	23-Jan-20	109.91	IRWD Check	Reconciled
405642	INFRASTRUCTURE ENGINEERING CORPORATION	23-Jan-20	3,365.41	IRWD Check	Negotiable
405643	IRVINE PIPE & SUPPLY INC	23-Jan-20	707.82	IRWD Check	Reconciled
405644	IRWD-PETTY CASH CUSTODIAN	23-Jan-20	598.92	IRWD Check	Reconciled
405645	JACK DOHENY COMPANIES INC	23-Jan-20	3,243.28	IRWD Check	Reconciled
405646	JOHN MICHAEL COVAS	23-Jan-20	420.40	IRWD Check	Reconciled
405647	JOHNSON, RYAN	23-Jan-20	280.25	IRWD Check	Reconciled
405648	JUNG LEE AND JINA LAWLER	23-Jan-20	30.90	IRWD Check	Negotiable
405649	JUST ENERGY SOLUTIONS INC.	23-Jan-20	200.20	IRWD Check	Reconciled
405650	KEY INFORMATION SYSTEMS, INC.	23-Jan-20	2,050.00	IRWD Check	Reconciled
405651	LANDCARE HOLDINGS, INC.	23-Jan-20	36,146.28	IRWD Check	Reconciled
405652	LAYTON CONSTRUCTION COMPANY, LLC	23-Jan-20	217.60	IRWD Check	Negotiable
405653	LCS TECHNOLOGIES, INC.	23-Jan-20	3,780.00	IRWD Check	Negotiable
405654	LEE, JACQUELINE	23-Jan-20	86.65	IRWD Check	Negotiable
405655	LENNAR HOMES	23-Jan-20	374.75	IRWD Check	Reconciled
405656	LIEN, HUANG-TSEN	23-Jan-20	38.13	IRWD Check	Negotiable
405657	LITWILLER, LISA	23-Jan-20	95.04	IRWD Check	Negotiable
405658	MAP COMMUNICATIONS, INC.	23-Jan-20	1,146.33	IRWD Check	Reconciled
405659	MARK ENTERPRISES, INC.	23-Jan-20	3,427.20	IRWD Check	Reconciled
405660	MC MASTER CARR SUPPLY CO	23-Jan-20	604.48	IRWD Check	Reconciled
405661	MCKENNA, AUDREY	23-Jan-20	59.37	IRWD Check	Negotiable
405662	MERRIMAC PETROLEUM, INC.	23-Jan-20	41,932.41	IRWD Check	Reconciled
405663	METTLER-TOLEDO RAININ, LLC	23-Jan-20	54.18	IRWD Check	Reconciled
405664	MICROSOFT CORPORATION	23-Jan-20	508.47	IRWD Check	Reconciled
405665	MODERN WATER INC	23-Jan-20	721.90	IRWD Check	Reconciled
405666	MORTON, MICHELLE	23-Jan-20	117.74	IRWD Check	Reconciled
405667	MSC INDUSTRIAL SUPPLY CO	23-Jan-20	581.88	IRWD Check	Reconciled
405668	MULTIQUIP INC	23-Jan-20	511.88	IRWD Check	Reconciled
405669	NATIONAL READY MIXED CONCRETE SALES, LLC	23-Jan-20	982.85	IRWD Check	Reconciled
405670	NCH CORPORATION	23-Jan-20	405.04	IRWD Check	Reconciled
405671	NEOFUNDS	23-Jan-20	2,039.00	IRWD Check	Reconciled
405672	NMG GEOTECHNICAL INC	23-Jan-20	5,635.20	IRWD Check	Reconciled
405673	NV5, INC.	23-Jan-20	41,440.00	IRWD Check	Negotiable
405674	OLIN CORPORATION	23-Jan-20	13,566.94	IRWD Check	Reconciled
405675	ORANGE COUNTY AUTO PARTS CO	23-Jan-20	1,794.68	IRWD Check	Reconciled
405676	ORANGE COUNTY FIRE AUTHORITY	23-Jan-20	634.00	IRWD Check	Reconciled
405677	ORANGE LINE OIL COMPANY	23-Jan-20	1,697.70	IRWD Check	Reconciled
405678	OUTSOURCE TECHNICAL LLC	23-Jan-20	2,497.50	IRWD Check	Reconciled
405679	PACIFIC LEGACY REAL ESTATE	23-Jan-20	24.18	IRWD Check	Negotiable
405680	PENNINGTON, KATHY	23-Jan-20	20.03	IRWD Check	Negotiable
405681	PINNACLE TOWERS LLC	23-Jan-20	779.18	IRWD Check	Reconciled
405682	PLANETBIDS, INC.	23-Jan-20	9,141.25	IRWD Check	Reconciled
405683	POLLARDWATER.COM	23-Jan-20	72.47	IRWD Check	Reconciled
405684	PTI SAND & GRAVEL INC	23-Jan-20	666.62	IRWD Check	Reconciled
405685	PYRO-COMM SYSTEMS INC	23-Jan-20	1,263.39	IRWD Check	Reconciled
405686	QBE FIRST	23-Jan-20	374.33	IRWD Check	Reconciled
405687	QUAIL MEADOW APARTMENTS	23-Jan-20	1,945.78	IRWD Check	Negotiable
405688	R & S SOIL PRODUCTS, INC	23-Jan-20	700.38	IRWD Check	Negotiable
405689	RDFN VENTURES INC.	23-Jan-20	54.93	IRWD Check	Negotiable

**IRVINE RANCH WATER DISTRICT  
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405690	REAL WATER CONSULTANTS INC.	23-Jan-20	960.00	IRWD Check	Negotiable
405691	RED WING SHOE STORE	23-Jan-20	200.00	IRWD Check	Reconciled
405692	RENTOKIL NORTH AMERICA, INC	23-Jan-20	4,198.00	IRWD Check	Reconciled
405693	RIM, KATHY	23-Jan-20	48.06	IRWD Check	Reconciled
405694	RLG ENTERPRISES, INC	23-Jan-20	789.54	IRWD Check	Reconciled
405695	RODRIGUEZ, JESSICA	23-Jan-20	36.03	IRWD Check	Reconciled
405696	ROSE PAVING LLC	23-Jan-20	47,486.49	IRWD Check	Reconciled
405697	ROYAL WHOLESAL ELECTRIC	23-Jan-20	1,187.52	IRWD Check	Reconciled
405698	SABBATINI, ROBERT	23-Jan-20	13.88	IRWD Check	Negotiable
405699	SAN CARLO APARTMENTS	23-Jan-20	13.37	IRWD Check	Negotiable
405700	SAN REMO APTS	23-Jan-20	69.96	IRWD Check	Negotiable
405701	SANTA ANA BLUE PRINT	23-Jan-20	122.84	IRWD Check	Reconciled
405702	SANTA MARGARITA FORD	23-Jan-20	199.00	IRWD Check	Reconciled
405703	SERRANO WATER DISTRICT	23-Jan-20	7,027.83	IRWD Check	Reconciled
405704	SHAMROCK SUPPLY CO INC	23-Jan-20	608.48	IRWD Check	Reconciled
405705	SHIN-FENG WU AND TAMMY SUNG	23-Jan-20	848.23	IRWD Check	Negotiable
405706	SITMATIC	23-Jan-20	2,394.60	IRWD Check	Reconciled
405707	SMITH, BRETT	23-Jan-20	52.41	IRWD Check	Negotiable
405708	SMITS, SANDRA	23-Jan-20	15.90	IRWD Check	Reconciled
405709	SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT	23-Jan-20	3,180.21	IRWD Check	Reconciled
405710	SOUTHERN CALIFORNIA EDISON COMPANY	23-Jan-20	436,436.42	IRWD Check	Reconciled
405711	SOUTHERN CALIFORNIA EDISON COMPANY	23-Jan-20	47.50	IRWD Check	Reconciled
405712	SOUTHERN CALIFORNIA GAS COMPANY	23-Jan-20	109.48	IRWD Check	Reconciled
405713	SOUTHERN CALIFORNIA SECURITY CENTERS, INC.	23-Jan-20	1,006.09	IRWD Check	Negotiable
405714	STANFORD COURT APARTMENTS	23-Jan-20	36.61	IRWD Check	Negotiable
405715	STRATA REALTY LLC	23-Jan-20	44.25	IRWD Check	Reconciled
405716	TEVORA BUSINESS SOLUTIONS, INC.	23-Jan-20	2,173.33	IRWD Check	Reconciled
405717	THE DEACON FAMILY TRUST	23-Jan-20	615.01	IRWD Check	Negotiable
405718	THE IRVINE COMPANY	23-Jan-20	2,434.27	IRWD Check	Reconciled
405719	TIC-IPG-COMMON	23-Jan-20	672.69	IRWD Check	Reconciled
405720	TIC-RETAIL PROPERTIES	23-Jan-20	153.26	IRWD Check	Reconciled
405721	TIC-SPECTRUM OFFICE	23-Jan-20	536.26	IRWD Check	Reconciled
405722	TIETRASINSKI, PAWEL	23-Jan-20	36.40	IRWD Check	Negotiable
405723	TOLL BROS., INC.	23-Jan-20	22.46	IRWD Check	Negotiable
405724	TOP TEN REAL ESTATE INC	23-Jan-20	15.95	IRWD Check	Negotiable
405725	TOTAL RESOURCE MANAGEMENT, INC.	23-Jan-20	340.00	IRWD Check	Negotiable
405726	TROPICAL PLAZA NURSERY INC	23-Jan-20	3,290.00	IRWD Check	Reconciled
405727	TRUCPARCO	23-Jan-20	46.45	IRWD Check	Reconciled
405728	TSAI, LEO	23-Jan-20	11.98	IRWD Check	Reconciled
405729	UNITED HEALTHCARE INSURANCE COMPANY	23-Jan-20	284.07	IRWD Check	Reconciled
405730	UNITED PARCEL SERVICE INC	23-Jan-20	99.50	IRWD Check	Reconciled
405731	VERMA, ANGAD	23-Jan-20	44.80	IRWD Check	Negotiable
405732	VITALYST, LLC	23-Jan-20	37,687.00	IRWD Check	Reconciled
405733	WALTERS WHOLESAL ELECTRIC	23-Jan-20	109.81	IRWD Check	Reconciled
405734	WAQFI, HANAN	23-Jan-20	25.55	IRWD Check	Reconciled
405735	WATERSMART SOFTWARE, INC	23-Jan-20	13,597.50	IRWD Check	Reconciled
405736	WAXIE'S ENTERPRISES, INC	23-Jan-20	221.67	IRWD Check	Reconciled
405737	WECK LABORATORIES INC	23-Jan-20	480.00	IRWD Check	Reconciled
405738	WEST COAST SAND & GRAVEL INC.	23-Jan-20	2,420.41	IRWD Check	Reconciled
405739	YAHYA NEMER, ALI	23-Jan-20	12.39	IRWD Check	Negotiable
405740	YORKE ENGINEERING, LLC	23-Jan-20	14,161.20	IRWD Check	Reconciled
405741	YU ZHAO AND NI ZHENG	23-Jan-20	58.14	IRWD Check	Negotiable
405742	ZIMA CORPORATION	23-Jan-20	7,071.24	IRWD Check	Reconciled
405743	PRE-PAID LEGAL SERVICES INC	23-Jan-20	1,711.77	IRWD Check	Reconciled
405744	COLONIAL LIFE & ACCIDENT INSURANCE CO.	23-Jan-20	1,103.26	IRWD Check	Reconciled
405745	US BANK NAT'L ASSOCIATION NORTH DAKOTA	23-Jan-20	69,448.83	IRWD Check	Reconciled
405746	JCI JONES CHEMICALS INC	23-Jan-20	3,595.60	IRWD Check	Reconciled

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405747	WASTE MANAGEMENT OF ORANGE COUNTY	27-Jan-20	425.00	IRWD Check	Reconciled
405748	FIDELITY SECURITY LIFE INSURANCE COMPANY	27-Jan-20	7,529.15	IRWD Check	Negotiable
405749	ASSOCIATION OF CALIFORNIA WATER AGENCIES/JPIA	27-Jan-20	1,413.59	IRWD Check	Negotiable
405750	ASSOCIATION OF CALIFORNIA WATER AGENCIES/JPIA	27-Jan-20	37,536.27	IRWD Check	Negotiable
405751	ASSOCIATION OF CALIFORNIA WATER AGENCIES/JPIA	27-Jan-20	1,028.28	IRWD Check	Negotiable
405752	ASSOCIATION OF CALIFORNIA WATER AGENCIES/JPIA	27-Jan-20	37,641.78	IRWD Check	Negotiable
405753	Cano, Marco T (Marco)	30-Jan-20	192.00	IRWD Check	Negotiable
405754	Chaney, David (Dave)	30-Jan-20	89.00	IRWD Check	Negotiable
405755	Colston, James	30-Jan-20	509.43	IRWD Check	Reconciled
405756	Garcia, Jose (Joe)	30-Jan-20	105.00	IRWD Check	Negotiable
405757	Hartoog, Jeremy	30-Jan-20	192.00	IRWD Check	Negotiable
405758	Hatch, Lauren	30-Jan-20	525.00	IRWD Check	Negotiable
405759	McBride, Damien J	30-Jan-20	181.00	IRWD Check	Negotiable
405760	Nash, Joel	30-Jan-20	81.65	IRWD Check	Reconciled
405761	Orozco, Gustavo A (Gus)	30-Jan-20	192.00	IRWD Check	Negotiable
405762	Shinbashi, Allen	30-Jan-20	70.30	IRWD Check	Negotiable
405763	Yue, Andrew R (Andrew)	30-Jan-20	125.00	IRWD Check	Negotiable
405764	RED WING SHOE STORE	30-Jan-20	3,621.30	IRWD Check	Negotiable
405765	RED WING SHOE STORE	30-Jan-20	4,027.42	IRWD Check	Negotiable
405766	RED WING SHOE STORE	30-Jan-20	2,433.71	IRWD Check	Negotiable
405767	ABM INDUSTRY GROUPS, LLC	30-Jan-20	17,565.22	IRWD Check	Negotiable
405768	ABSOLUTE STANDARDS, INC.	30-Jan-20	635.50	IRWD Check	Negotiable
405769	ADAM'S FALCONRY SERVICE, LLC	30-Jan-20	1,560.00	IRWD Check	Negotiable
405770	ADT SECURITY SERVICES INC	30-Jan-20	412.47	IRWD Check	Negotiable
405771	AIRGAS, INC.	30-Jan-20	4,794.85	IRWD Check	Negotiable
405772	ALLIED ELECTRONICS INC	30-Jan-20	1,225.22	IRWD Check	Negotiable
405773	AMAZON CAPITAL SERVICES, INC.	30-Jan-20	2,030.32	IRWD Check	Negotiable
405774	ANTHONY N. LARSEN	30-Jan-20	450.00	IRWD Check	Negotiable
405775	APEX SYSTEMS, LLC	30-Jan-20	7,461.74	IRWD Check	Negotiable
405776	ARIZONA PIPELINE CO.	30-Jan-20	882.04	IRWD Check	Negotiable
405777	AT&T	30-Jan-20	54.79	IRWD Check	Negotiable
405778	ATICK, FATEHA	30-Jan-20	330.89	IRWD Check	Negotiable
405779	AUDIO FONIXX, INC.	30-Jan-20	4,411.33	IRWD Check	Negotiable
405780	AUTOZONE PARTS, INC.	30-Jan-20	309.48	IRWD Check	Negotiable
405781	BIGWIG MONSTER, LLC	30-Jan-20	3,000.00	IRWD Check	Negotiable
405782	BSI SERVICES AND SOLUTIONS (WEST) INC.	30-Jan-20	2,940.00	IRWD Check	Negotiable
405783	C WELLS PIPELINE MATERIALS INC	30-Jan-20	126,969.57	IRWD Check	Negotiable
405784	CALIFORNIA BARRICADE RENTAL, INC.	30-Jan-20	1,095.00	IRWD Check	Negotiable
405785	CALIFORNIA GATE AND ENTRY SYSTEMS	30-Jan-20	533.98	IRWD Check	Negotiable
405786	CALIFORNIA INVESTMENT PROPERTIES, LLC	30-Jan-20	32.38	IRWD Check	Negotiable
405787	CANON FINANCIAL SERVICES, INC	30-Jan-20	7,209.96	IRWD Check	Negotiable
405788	CANON SOLUTIONS AMERICA, INC.	30-Jan-20	14.07	IRWD Check	Negotiable
405789	CASTRO, TAL	30-Jan-20	17.19	IRWD Check	Negotiable
405790	CDW GOVERNMENT LLC	30-Jan-20	1,850.23	IRWD Check	Negotiable
405791	CEPA OPERATIONS, INC	30-Jan-20	195.00	IRWD Check	Negotiable
405792	CHANG, PATRICE	30-Jan-20	289.70	IRWD Check	Negotiable
405793	CHARLES WILLIAM ROBLE, JR.	30-Jan-20	315.00	IRWD Check	Negotiable
405794	CITY OF NEWPORT BEACH	30-Jan-20	1,144.38	IRWD Check	Negotiable
405795	CITY OF SANTA ANA	30-Jan-20	169.16	IRWD Check	Negotiable
405796	CLA-VAL COMPANY	30-Jan-20	6,977.25	IRWD Check	Negotiable
405797	CLARK, EDDIE LOUISE	30-Jan-20	12.63	IRWD Check	Negotiable
405798	COMMERCIAL DOOR OF ORANGE COUNTY, INC.	30-Jan-20	5,366.51	IRWD Check	Negotiable
405799	CONSTELLATION NEWENERGY, INC.	30-Jan-20	19,400.31	IRWD Check	Negotiable
405800	COX COMMUNICATIONS, INC.	30-Jan-20	3,353.78	IRWD Check	Negotiable
405801	CR & R INCORPORATED	30-Jan-20	1,108.53	IRWD Check	Negotiable
405802	D & G SIGNS	30-Jan-20	668.05	IRWD Check	Negotiable
405803	DATASITE INC	30-Jan-20	16,682.00	IRWD Check	Negotiable

**IRVINE RANCH WATER DISTRICT  
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405804	DENALI WATER SOLUTIONS LLC	30-Jan-20	7,305.64	IRWD Check	Negotiable
405805	DIRECTV INC	30-Jan-20	139.54	IRWD Check	Negotiable
405806	DIVERSIFIED COMMUNICATIONS SERVICES, INC.	30-Jan-20	4,434.99	IRWD Check	Negotiable
405807	DLT SOLUTIONS LLC	30-Jan-20	24,038.70	IRWD Check	Negotiable
405808	DRIVELINES UNLIMITED	30-Jan-20	334.73	IRWD Check	Negotiable
405809	EAGLE PRINT DYNAMICS	30-Jan-20	2,536.75	IRWD Check	Negotiable
405810	EI&C ENGINEERING INC	30-Jan-20	42,240.00	IRWD Check	Negotiable
405811	ENDRESS AND HAUSER INC	30-Jan-20	431.92	IRWD Check	Negotiable
405812	ENVIRONMENTAL EXPRESS INC	30-Jan-20	1,268.04	IRWD Check	Negotiable
405813	ENVIRONMENTAL SCIENCE ASSOCIATES	30-Jan-20	30,199.70	IRWD Check	Negotiable
405814	EON REALITY INC	30-Jan-20	56.09	IRWD Check	Negotiable
405815	EPURI, SWAROOP	30-Jan-20	254.46	IRWD Check	Negotiable
405816	ERLITZ, BRIAN W	30-Jan-20	503.90	IRWD Check	Negotiable
405817	EUROFINS CALSCIENCE, LLC	30-Jan-20	1,605.45	IRWD Check	Negotiable
405818	EXCHANGE CLUB OF IRVINE	30-Jan-20	250.00	IRWD Check	Negotiable
405819	FARRELL & ASSOCIATES	30-Jan-20	2,689.97	IRWD Check	Negotiable
405820	FEDEX	30-Jan-20	209.38	IRWD Check	Negotiable
405821	FERGUSON ENTERPRISES, LLC	30-Jan-20	9,973.33	IRWD Check	Negotiable
405822	FISHER SCIENTIFIC COMPANY LLC	30-Jan-20	2,399.42	IRWD Check	Negotiable
405823	FISHMAN, IRA	30-Jan-20	54.53	IRWD Check	Negotiable
405824	FRONTIER CALIFORNIA INC.	30-Jan-20	289.05	IRWD Check	Negotiable
405825	FU, KATHY	30-Jan-20	66.34	IRWD Check	Negotiable
405826	GEI CONSULTANTS INC	30-Jan-20	1,179.00	IRWD Check	Negotiable
405827	GLADWELL GOVERNMENTAL SERVICES, INC.	30-Jan-20	250.00	IRWD Check	Negotiable
405828	GONZALEZ, GLORIA	30-Jan-20	30.11	IRWD Check	Negotiable
405829	GRAYBAR ELECTRIC COMPANY	30-Jan-20	12,880.89	IRWD Check	Negotiable
405830	HAAKER EQUIPMENT COMPANY	30-Jan-20	988.50	IRWD Check	Negotiable
405831	HACH COMPANY	30-Jan-20	1,711.82	IRWD Check	Negotiable
405832	HANNA INSTRUMENTS UNITED STATES, INC	30-Jan-20	161.63	IRWD Check	Negotiable
405833	HELP/SYSTEMS, LLC	30-Jan-20	1,200.00	IRWD Check	Negotiable
405834	HELPMATES STAFFING SERVICES	30-Jan-20	15,878.48	IRWD Check	Negotiable
405835	HERC RENTALS INC.	30-Jan-20	645.75	IRWD Check	Negotiable
405836	HGCPM, INC	30-Jan-20	1,224.57	IRWD Check	Negotiable
405837	HI-LINE INC	30-Jan-20	352.48	IRWD Check	Negotiable
405838	HILL BROTHERS CHEMICAL COMPANY	30-Jan-20	15,448.42	IRWD Check	Negotiable
405839	HOME DEPOT USA INC	30-Jan-20	505.33	IRWD Check	Negotiable
405840	HOWDEN ROOTS LLC	30-Jan-20	50,999.15	IRWD Check	Negotiable
405841	HP CUSTOM HOMES, INC.	30-Jan-20	874.78	IRWD Check	Negotiable
405842	HUANG, JEAN	30-Jan-20	49.19	IRWD Check	Negotiable
405843	HUANG, JENNIFER	30-Jan-20	69.08	IRWD Check	Negotiable
405844	INDUSTRIAL METAL SUPPLY CO	30-Jan-20	4.74	IRWD Check	Negotiable
405845	INORGANIC VENTURES INC	30-Jan-20	217.38	IRWD Check	Negotiable
405846	IRVINE PIPE & SUPPLY INC	30-Jan-20	8,878.51	IRWD Check	Negotiable
405847	IRVINE PROPERTY MANAGEMENT	30-Jan-20	12.43	IRWD Check	Negotiable
405848	IRWD-PETTY CASH CUSTODIAN	30-Jan-20	1,343.23	IRWD Check	Reconciled
405849	JAVAID, ARMUGHAN	30-Jan-20	67.47	IRWD Check	Negotiable
405850	JCI JONES CHEMICALS INC	30-Jan-20	2,752.75	IRWD Check	Negotiable
405851	KARZAI, SHUGHLA	30-Jan-20	20.23	IRWD Check	Negotiable
405852	KENT DAHLBERG	30-Jan-20	150,860.00	IRWD Check	Negotiable
405853	KIMBALL MIDWEST	30-Jan-20	292.69	IRWD Check	Negotiable
405854	L & S CONSTRUCTION, INC.	30-Jan-20	1,755.00	IRWD Check	Negotiable
405855	LANDCARE HOLDINGS, INC.	30-Jan-20	2,486.94	IRWD Check	Negotiable
405856	LANDSEA HOLDINGS CORPORATION	30-Jan-20	482.59	IRWD Check	Negotiable
405857	LEE, MICHAEL	30-Jan-20	35.16	IRWD Check	Negotiable
405858	LENNAR HOMES	30-Jan-20	798.57	IRWD Check	Negotiable
405859	LIN, CHERYL	30-Jan-20	241.40	IRWD Check	Negotiable
405860	LSA ASSOCIATES INC	30-Jan-20	11,183.24	IRWD Check	Negotiable

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

<b>CHECK OR ELECTRONIC #</b>	<b>SUPPLIERS</b>	<b>PAYMENT DATE</b>	<b>PAYMENT AMOUNT</b>	<b>PAYMENT METHOD</b>	<b>STATUS</b>
405861	MATTAIR, LAURA	30-Jan-20	32.20	IRWD Check	Negotiable
405862	MC FADDEN-DALE INDUSTRIAL	30-Jan-20	679.76	IRWD Check	Negotiable
405863	MC MASTER CARR SUPPLY CO	30-Jan-20	111.52	IRWD Check	Negotiable
405864	MCR TECHNOLOGIES INC	30-Jan-20	9,766.40	IRWD Check	Negotiable
405865	METAL TECHNOLOGY	30-Jan-20	1,567.18	IRWD Check	Negotiable
405866	MOBILE MODULAR MANAGEMENT CORPORATION	30-Jan-20	1,212.19	IRWD Check	Negotiable
405867	MODERN WATER INC	30-Jan-20	334.03	IRWD Check	Negotiable
405868	MR CRANE INC	30-Jan-20	1,042.20	IRWD Check	Negotiable
405869	MUTUAL PROPANE	30-Jan-20	135.19	IRWD Check	Negotiable
405870	NEW PIG CORPORATION	30-Jan-20	7,030.86	IRWD Check	Negotiable
405871	NEWPORT RIDGE APTS	30-Jan-20	1,305.04	IRWD Check	Negotiable
405872	NINYO & MOORE	30-Jan-20	2,509.00	IRWD Check	Negotiable
405873	NIXON-EGLI EQUIPMENT COMPANY INC.	30-Jan-20	1,843.71	IRWD Check	Negotiable
405874	NORTHERN SAFETY CO INC	30-Jan-20	101.54	IRWD Check	Negotiable
405875	OH, THERESA	30-Jan-20	38.88	IRWD Check	Negotiable
405876	OLIN CORPORATION	30-Jan-20	20,298.18	IRWD Check	Negotiable
405877	ONESOURCE DISTRIBUTORS LLC	30-Jan-20	484.54	IRWD Check	Negotiable
405878	ORANGE COAST PETROLEUM EQUIPMENT, INC.	30-Jan-20	4,427.46	IRWD Check	Negotiable
405879	ORANGE COUNTY AUTO PARTS CO	30-Jan-20	1,347.35	IRWD Check	Negotiable
405880	OUTSOURCE TECHNICAL LLC	30-Jan-20	5,038.25	IRWD Check	Negotiable
405881	PACIFIC PARTS & CONTROLS INC	30-Jan-20	1,031.79	IRWD Check	Negotiable
405882	PACIFIC RESOURCE RECOVERY	30-Jan-20	4,431.66	IRWD Check	Negotiable
405883	PALO VERDE IRRIGATION DISTRICT	30-Jan-20	5,000.00	IRWD Check	Negotiable
405884	PARK, MIJEONG	30-Jan-20	23.19	IRWD Check	Negotiable
405885	PAYNE & FEARS LLP	30-Jan-20	402.50	IRWD Check	Negotiable
405886	PCP MOTORSPORTS	30-Jan-20	968.74	IRWD Check	Negotiable
405887	PEYKOFF, VIRGINIA	30-Jan-20	42.08	IRWD Check	Negotiable
405888	PRAXAIR DISTRIBUTION INC	30-Jan-20	1,608.07	IRWD Check	Negotiable
405889	PREMIER PAVING INC.	30-Jan-20	1,796.67	IRWD Check	Negotiable
405890	PRUDENTIAL OVERALL SUPPLY	30-Jan-20	4,640.25	IRWD Check	Negotiable
405891	PSOMAS	30-Jan-20	3,712.50	IRWD Check	Negotiable
405892	QUINCY COMPRESSOR LLC	30-Jan-20	74.40	IRWD Check	Negotiable
405893	QUINN COMPANY	30-Jan-20	2,293.36	IRWD Check	Negotiable
405894	R.F. MACDONALD CO.	30-Jan-20	1,592.14	IRWD Check	Negotiable
405895	RAGLAND, CYNTHIA	30-Jan-20	29.42	IRWD Check	Negotiable
405896	RAM AIR ENGINEERING INC	30-Jan-20	6,390.00	IRWD Check	Negotiable
405897	RED TECHNOLOGY LLC	30-Jan-20	169.43	IRWD Check	Negotiable
405898	RED WING SHOE STORE	30-Jan-20	1,857.10	IRWD Check	Negotiable
405899	REFRIGERATION SUPPLIES DISTRIBUTOR	30-Jan-20	139.39	IRWD Check	Negotiable
405900	RELIABLE WATER SOLUTIONS, LLC	30-Jan-20	6,084.12	IRWD Check	Negotiable
405901	REULAND ELECTRIC CO	30-Jan-20	2,291.28	IRWD Check	Negotiable
405902	RICHMOND AMERICAN HOMES OF MARYLAND, INC	30-Jan-20	63.39	IRWD Check	Negotiable
405903	RINCON TRUCK CENTER INC.	30-Jan-20	4,447.05	IRWD Check	Negotiable
405904	SABATINE, FRED	30-Jan-20	37.67	IRWD Check	Negotiable
405905	SANDERS PAVING INC	30-Jan-20	4,805.25	IRWD Check	Negotiable
405906	SCHINDLER ELEVATOR CORPORATION	30-Jan-20	221.90	IRWD Check	Negotiable
405907	SHAMROCK SUPPLY CO INC	30-Jan-20	2,911.73	IRWD Check	Negotiable
405908	SHEA HOMES LIMITED PARTNERSHIP	30-Jan-20	49.10	IRWD Check	Negotiable
405909	SHOETERIA	30-Jan-20	9,904.35	IRWD Check	Negotiable
405910	SOUTHERN CALIFORNIA EDISON COMPANY	30-Jan-20	650.00	IRWD Check	Negotiable
405911	SOUTHERN CALIFORNIA EDISON COMPANY	30-Jan-20	113,975.80	IRWD Check	Negotiable
405912	STERGAS, AMANDA	30-Jan-20	10.10	IRWD Check	Negotiable
405913	STRADLING YOCCA CARLSON & RAUTH	30-Jan-20	596.00	IRWD Check	Negotiable
405914	SULZER ELECTRO-MECHANICAL SERVICES (US) INC.	30-Jan-20	1,440.88	IRWD Check	Negotiable
405915	SUNSHINE SUPPLY COMPANY, INC.	30-Jan-20	4,102.05	IRWD Check	Negotiable
405916	TETRA TECH, INC	30-Jan-20	15,697.00	IRWD Check	Negotiable
405917	THOMPSON, CLARISSA	30-Jan-20	1,354.35	IRWD Check	Negotiable

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

<b>CHECK OR ELECTRONIC #</b>	<b>SUPPLIERS</b>	<b>PAYMENT DATE</b>	<b>PAYMENT AMOUNT</b>	<b>PAYMENT METHOD</b>	<b>STATUS</b>
405918	TOLL BROS., INC.	30-Jan-20	529.90	IRWD Check	Negotiable
405919	TROPICAL PLAZA NURSERY INC	30-Jan-20	68,427.84	IRWD Check	Negotiable
405920	TRUCPARCO	30-Jan-20	214.71	IRWD Check	Negotiable
405921	TSIBOURIS, DIMITRA	30-Jan-20	51.81	IRWD Check	Negotiable
405922	UNITED PARCEL SERVICE INC	30-Jan-20	71.87	IRWD Check	Negotiable
405923	UNIVERSITY OF CALIFORNIA, IRVINE	30-Jan-20	27,016.90	IRWD Check	Negotiable
405924	VEOLIA WATER TECHNOLOGIES, INC.	30-Jan-20	17,781.04	IRWD Check	Negotiable
405925	VERIZON WIRELESS SERVICES LLC	30-Jan-20	9,762.08	IRWD Check	Negotiable
405926	VERTECH INDUSTRIAL SYSTEMS, LLC	30-Jan-20	15,202.55	IRWD Check	Negotiable
405927	VULCAN MATERIALS COMPANY	30-Jan-20	1,474.96	IRWD Check	Negotiable
405928	VWR INTERNATIONAL, LLC	30-Jan-20	773.02	IRWD Check	Negotiable
405929	WAXIE'S ENTERPRISES, INC	30-Jan-20	2,123.57	IRWD Check	Negotiable
405930	WEST COAST SAFETY SUPPLY INC	30-Jan-20	7,541.08	IRWD Check	Negotiable
405931	WEST YOST & ASSOCIATES, INC	30-Jan-20	2,991.00	IRWD Check	Negotiable
405932	WIRELESS WATCHDOGS, LLC	30-Jan-20	1,364.00	IRWD Check	Negotiable
405933	XU, GUOSHENG	30-Jan-20	23.21	IRWD Check	Negotiable
405934	XYLEM WATER SOLUTIONS USA, INC.	30-Jan-20	1,398.28	IRWD Check	Negotiable
405935	YEH, WINSTON	30-Jan-20	43.04	IRWD Check	Negotiable
405936	YORKVILLE INVESTMENTS INC	30-Jan-20	28.94	IRWD Check	Negotiable
405937	ZHANG, YI	30-Jan-20	12.13	IRWD Check	Negotiable
405938	STATE OF CALIFORNIA, EDD	31-Jan-20	75.00	IRWD Check	Negotiable
405939	ORANGE COUNTY SHERIFF'S OFFICE	31-Jan-20	174.50	IRWD Check	Negotiable
405940	FRANCHISE TAX BOARD	31-Jan-20	430.00	IRWD Check	Negotiable
405941	INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS LOCAL 47	31-Jan-20	2,672.75	IRWD Check	Negotiable
405942	PERS LONG TERM CARE	31-Jan-20	538.89	IRWD Check	Negotiable
405943	ORANGE COUNTY SANITATION DISTRICT	31-Jan-20	22,487.30	IRWD Check	Negotiable
405944	REACH EMPLOYEE ASSISTANCE INC	31-Jan-20	1,075.20	IRWD Check	Negotiable
405945	COUNTY OF ORANGE	31-Jan-20	215.68	IRWD Check	Negotiable
<b>SUB-TOTAL CHECK DISBURSEMENTS</b>			<b>10,506,855.17</b>		

13557	CHARD SNYDER & ASSOCIATES, INC.	7-Jan-20	8,899.25	IRWD Wire	Negotiable
13558	CHARD SNYDER & ASSOCIATES, INC.	7-Jan-20	5,704.23	IRWD Wire	Negotiable
13559	YORK INSURANCE SERVICES GROUP INC - CA	7-Jan-20	1,101.49	IRWD Wire	Negotiable
13560	CALPERS	8-Jan-20	225,597.51	IRWD Wire	Negotiable
13561	INTERNAL REVENUE SERVICE	8-Jan-20	215,815.71	IRWD Wire	Negotiable
13562	FRANCHISE TAX BOARD	8-Jan-20	64,909.59	IRWD Wire	Negotiable
13563	EMPLOYMENT DEVELOPMENT DEPARTMENT	8-Jan-20	15,946.84	IRWD Wire	Negotiable
13564	CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES	8-Jan-20	3,026.42	IRWD Wire	Negotiable
13565	GREAT-WEST LIFE & ANNUITY INSURANCE COMPANY	8-Jan-20	198,370.60	IRWD Wire	Negotiable
13566	CALPERS	8-Jan-20	1,055.72	IRWD Wire	Negotiable
13567	CALPERS	8-Jan-20	32,391.48	IRWD Wire	Negotiable
13569	CHARD SNYDER & ASSOCIATES, INC.	13-Jan-20	3,725.49	IRWD Wire	Negotiable
13570	YORK INSURANCE SERVICES GROUP INC - CA	14-Jan-20	6,150.40	IRWD Wire	Negotiable
13571	WELLS FARGO BANK, N.A.	14-Jan-20	5,611.75	IRWD Wire	Negotiable
13572	CALPERS	15-Jan-20	471.33	IRWD Wire	Negotiable
13573	EDAH-TALLY, ISSA	15-Jan-20	44.85	IRWD Wire	Negotiable
13574	CALPERS	20-Jan-20	530,186.08	IRWD Wire	Negotiable
13575	CALPERS	20-Jan-20	2,953.07	IRWD Wire	Negotiable
13576	CALPERS	20-Jan-20	2,250.00	IRWD Wire	Negotiable
13577	ORANGE COUNTY WATER DISTRICT	20-Jan-20	322,244.83	IRWD Wire	Negotiable
13578	INTERNAL REVENUE SERVICE	20-Jan-20	228,363.85	IRWD Wire	Negotiable
13579	FRANCHISE TAX BOARD	20-Jan-20	68,828.32	IRWD Wire	Negotiable
13580	EMPLOYMENT DEVELOPMENT DEPARTMENT	20-Jan-20	16,225.59	IRWD Wire	Negotiable
13581	CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES	20-Jan-20	3,026.40	IRWD Wire	Negotiable
13582	GREAT-WEST LIFE & ANNUITY INSURANCE COMPANY	20-Jan-20	172,436.77	IRWD Wire	Negotiable
13583	CALPERS	20-Jan-20	228,734.98	IRWD Wire	Negotiable
13584	MUNICIPAL WATER DISTRICT OF ORANGE COUNTY	21-Jan-20	487,798.33	IRWD Wire	Negotiable

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

<b>CHECK OR ELECTRONIC #</b>	<b>SUPPLIERS</b>	<b>PAYMENT DATE</b>	<b>PAYMENT AMOUNT</b>	<b>PAYMENT METHOD</b>	<b>STATUS</b>
13585	YORK INSURANCE SERVICES GROUP INC - CA	21-Jan-20	5,256.15	IRWD Wire	Negotiable
13586	CHARD SNYDER & ASSOCIATES, INC.	21-Jan-20	23,777.30	IRWD Wire	Negotiable
13587	CHARD SNYDER & ASSOCIATES, INC.	21-Jan-20	3,674.91	IRWD Wire	Negotiable
13588	FILANC-BALFOUR BEATTY JV	22-Jan-20	228,608.82	IRWD Wire	Negotiable
13589	BANK OF AMERICA	22-Jan-20	43,523.01	IRWD Wire	Negotiable
13590	U.S. BANK NATIONAL ASSOCIATION	23-Jan-20	20,050.36	IRWD Wire	Negotiable
13591	SUMITOMO MITSUI BANKING CORPORATION	23-Jan-20	34,537.40	IRWD Wire	Negotiable
13592	BANK OF NEW YORK MELLON TRUST COMPANY NA	23-Jan-20	81,397.58	IRWD Wire	Negotiable
13593	U.S. BANK NATIONAL ASSOCIATION	23-Jan-20	36,013.72	IRWD Wire	Negotiable
13594	BANK OF AMERICA	23-Jan-20	35,802.73	IRWD Wire	Negotiable
13595	CHARD SNYDER & ASSOCIATES, INC.	27-Jan-20	10,513.89	IRWD Wire	Negotiable
13596	CHARD SNYDER & ASSOCIATES, INC.	27-Jan-20	2,146.54	IRWD Wire	Negotiable
13597	YORK INSURANCE SERVICES GROUP INC - CA	28-Jan-20	6,055.65	IRWD Wire	Negotiable
13598	U.S. BANK NATIONAL ASSOCIATION	28-Jan-20	72,589.85	IRWD Wire	Negotiable
13599	SUMITOMO MITSUI BANKING CORPORATION	28-Jan-20	38,736.30	IRWD Wire	Negotiable
13600	ORANGE COUNTY SANITATION DISTRICT	30-Jan-20	1,641,898.75	IRWD Wire	Negotiable
13601	U.S. BANK NATIONAL ASSOCIATION	30-Jan-20	1,040.60	IRWD Wire	Negotiable
13602	BANK OF AMERICA MERRILL LYNCH	30-Jan-20	19,656.65	IRWD Wire	Negotiable
13603	BANK OF NEW YORK MELLON TRUST COMPANY NA	30-Jan-20	2,650,512.50	IRWD Wire	Negotiable
13604	ORANGE COUNTY WATER DISTRICT	30-Jan-20	9,829,559.30	IRWD Wire	Negotiable
13605	INTERNAL REVENUE SERVICE	31-Jan-20	207,990.11	IRWD Wire	Negotiable
13606	FRANCHISE TAX BOARD	31-Jan-20	63,550.89	IRWD Wire	Negotiable
13607	EMPLOYMENT DEVELOPMENT DEPARTMENT	31-Jan-20	15,824.37	IRWD Wire	Negotiable
13608	CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES	31-Jan-20	3,026.40	IRWD Wire	Negotiable
13609	GREAT-WEST LIFE & ANNUITY INSURANCE COMPANY	31-Jan-20	168,794.09	IRWD Wire	Negotiable
13610	BANK OF NEW YORK MELLON TRUST COMPANY NA	31-Jan-20	1,128.47	IRWD Wire	Negotiable
13611	BANK OF NEW YORK MELLON TRUST COMPANY NA	31-Jan-20	2,472.53	IRWD Wire	Negotiable
13612	CALPERS	31-Jan-20	227,562.26	IRWD Wire	Negotiable
<b>SUB-TOTAL ELECTRONIC DISBURSEMENTS</b>			<b>18,327,572.01</b>		
<b>SUB-TOTAL AP CHECK AND ELECTRONIC DISBURSEMENTS</b>			<b>28,834,427.18</b>		
13568	CHARD SNYDER & ASSOCIATES, INC.	13-Jan-20	31,930.07	IRWD Wire	Voided
405402	GRAND PROPERTY SERVICES, INC	16-Jan-20	47.79	IRWD Check	Voided
<b>SUB-TOTAL CHECK AND ELECTRONIC ISSUED AND VOIDED IN JANUARY 2020</b>			<b>31,977.86</b>		
<b>TOTAL AP DISBURSEMENTS AND VOIDS FOR JANUARY 2020</b>			<b>28,866,405.04</b>		



Exhibit "E"

**MONTHLY SUMMARY OF PAYROLL ACH PAYMENTS**

**January  
2020**

	AMOUNT	VENDOR	PURPOSE
1/3/2020	1,033,132.48	BANK OF AMERICA	ACH Payments for Payroll
1/17/2020	1,069,105.13	BANK OF AMERICA	ACH Payments for Payroll
1/31/2020	1,017,981.93	BANK OF AMERICA	ACH Payments for Payroll
	<u><b>\$3,120,219.54</b></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-JAN-20 to 31-JAN-20

NAME	CHECK	CHECK DATE	AMOUNT	ITEM DESCRIPTION	EXPENSE JUSTIFICATION
Bornhoff, Mike	405555	23-Jan-20	170.00	Membership Renewal	Society for Maintenance & Reliability Professionals (SMRP) membership
Cano, Marco	405753	30-Jan-20	192.00	Membership Renewal	CWEA membership
Chaney, Dave	405556	23-Jan-20	107.73	Certification Renewal	SWRCB Water Distribution Operator Training Handbook
Chaney, Dave	405556	23-Jan-20	172.30	Certification Renewal	SWRCB Water Distribution Operator Grade III
Colston, James	405124	9-Jan-20	336.65	Lodging	NACWA 2019 National Clean Water Law & Enforcement Seminar, Austin, TX - Nov. 19, 2019
Colston, James	405124	9-Jan-20	336.65	Lodging	NACWA 2019 National Clean Water Law & Enforcement Seminar, Austin, TX - Nov. 20, 2019
Colston, James	405124	9-Jan-20	336.65	Lodging	NACWA 2019 National Clean Water Law & Enforcement Seminar, Austin, TX - Nov. 21, 2019
Colston, James	405755	30-Jan-20	509.43	Membership Renewal	The State Bar of California 2020 Annual membership
Flotho, Eric	405115	6-Jan-20	568.89	Other(Misc)	Amazon purchased for toner secure cartridges
Gallegos, Adriel	405125	9-Jan-20	200.00	Other(Misc)	Safety shoe allowance
Garcia, Joe	405756	30-Jan-20	105.00	Certification Renewal	SWRCB Treatment Grade IV renewal
Hartoog, Jeremy	405126	9-Jan-20	200.00	Certification Renewal	CWEA Collections Grade III
Hartoog, Jeremy	405757	30-Jan-20	192.00	Membership Renewal	CWEA membership
Hatch, Lauren	405758	30-Jan-20	237.00	Membership Renewal	CWEA Registered Environmental Health Specialist
Hatch, Lauren	405758	30-Jan-20	288.00	Certification Renewal	Orange County Backflow Tester
LaMar, Steve	405557	23-Jan-20	330.21	Lodging	California Environmental Dialogue Plenary meeting, Sacramento, CA - Oct. 23, 2019
Matheis, Mary Aileen	405331	16-Jan-20	195.71	Lodging	ACWA Regulatory Summit, Sacramento, CA - Oct. 17, 2019
McBride, Damien	405759	30-Jan-20	181.00	Other(Misc)	Safety shoe allowance
McNulty, Amy	405332	16-Jan-20	158.34	Mileage	CalWEP Plenary meeting, Santa Barbara, CA - Dec. 11, 2019
Mwe, Nang	405333	16-Jan-20	192.00	Membership Renewal	CWEA Membership Renewal
Nash, Joel	405128	9-Jan-20	277.00	Membership Renewal	AWWA membership
Oldewage, Lars	405105	2-Jan-20	106.55	Other(Misc)	Home Depot Purchases - clean up supplies for Biosolids Lab
Orozco, Gus	405334	16-Jan-20	188.51	Other(Misc)	Safety shoe allowance
Orozco, Gus	405761	30-Jan-20	192.00	Membership Renewal	CWEA membership
Orozco, Linda	405335	16-Jan-20	286.00	Membership Renewal	AWWA membership
Schulze, Richard	405559	23-Jan-20	192.00	Membership Renewal	CWEA membership
Swan, Peer	405336	16-Jan-20	583.96	Airfare	Water Education Foundation (WEF) Northern California Tour, Sacramento, CA - Oct. 1, 2019
Swan, Peer	405336	16-Jan-20	583.96	Airfare	WEF 2019 Water Summit, Sacramento, CA - Oct. 30, 2019
Swan, Peer	405336	16-Jan-20	501.96	Airfare	WEF Central Coast Tour, Sacramento, CA - Nov. 5, 2019
Swift, Ian	405560	23-Jan-20	384.00	Airfare	Entomological Society of America Annual Meeting, St. Louis, MO - Nov. 17-20, 2019
Swift, Ian	405560	23-Jan-20	126.31	Lodging	Entomological Society of America Annual Meeting, St. Louis, MO - Nov. 16, 2019
Swift, Ian	405560	23-Jan-20	126.31	Lodging	Entomological Society of America Annual Meeting, St. Louis, MO - Nov. 17, 2019
Swift, Ian	405560	23-Jan-20	126.31	Lodging	Entomological Society of America Annual Meeting, St. Louis, MO - Nov. 18, 2019
Swift, Ian	405560	23-Jan-20	126.31	Lodging	Entomological Society of America Annual Meeting, St. Louis, MO - Nov. 19, 2019
Yue, Andrew	405763	30-Jan-20	125.00	Other(Misc)	Safety shoe allowance
<b>Total Amount:</b>			<b>\$8,935.74</b>		

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March 9, 2020  
Prepared by: T. Fournier  
Submitted by: R. Jacobson / C. Clary  
Approved by: Paul A. Cook



CONSENT CALENDAR

SAND CANYON PROFESSIONAL CENTER – PHASE II  
CONSTRUCTION UPDATE AND LISTING AGREEMENT EXTENSION

SUMMARY:

The Board previously approved the current listing agreement with Cushman & Wakefield and Colliers International that expired on February 29, 2020. Staff recommends that the Board approve a new listing agreement with the existing brokerage team, under the general terms as the previously executed listing agreement, with a time extension through August 31, 2020.

BACKGROUND:

Construction Activity:

Primary construction activities at the Sand Canyon Professional Center over the past month included painting the exterior of the building, framing and drywalling the restrooms, stair walls and the elevator shaft, installation of the four HVAC units on the roof, completion of exterior stonework, installation of flooring on the roof deck, installation of the parking lot light poles, and installation of windows and GKD screens on the exterior of the building. Scheduled activities in March and April include installation of the parking lot, remaining hardscape and landscape around the building, central courtyard and parking area, and construction of the covered parking structures. Staff and IRWD's commercial brokers continue discussions with prospective tenants interested in leasing space in the building. Completion of the building shell and sitework is scheduled for April 2020.

Listing Agreement Extension:

Staff and IRWD's commercial brokers continue discussions with a prospective tenant interested in leasing one floor of the new building. The Board previously approved the current listing agreement with Cushman & Wakefield and Colliers International expiring February 29, 2020. Staff recommends extending the agreement for six months to August 31, 2020. The general terms of the listing agreement are as follows:

*Brokers:* Kevin Turner (Cushman & Wakefield) and Michael Hartel (Colliers) International

*Proposed Extension Term:* August 31, 2020

*Termination:* Upon 30-Day Notice

*Commission Rates:*

Year 1 through Year 5: 4% to the procuring broker and 2.50% to the listing brokers

Year 6 through Year 10: 2% to the procuring broker and 1.25% to the listing brokers

The Proposed Listing Agreement is provided as Exhibit "A".

FISCAL IMPACTS:

The total proposed lease commission rate is 6.5% of the gross lease revenue for years one through five, and 3.25% for years six through 10. The total commission will be determined based on the final lease terms.

ENVIRONMENTAL COMPLIANCE:

A Final Environmental Impact Report has been prepared, certified and the project approved by the County of Orange Environmental Management Agency in compliance with the California Environmental Quality Act (CEQA) of 1970 (as amended), codified at California Public Resources Code Sections 21000 et. seq., and the State CEQA Guidelines in the Code of Regulations, Title 14, Division 6, Chapter 3.

COMMITTEE STATUS:

This item was reviewed by the Finance and Personnel Committee on March 3, 2020.

RECOMMENDATION:

THAT THE BOARD APPROVE A NEW LISTING AGREEMENT FOR THE LEASE OF THE SAND CANYON PROFESSIONAL OFFICE CENTER PHASE II WITH THE BROKERAGE TEAM OF CUSHMAN & WAKEFIELD AND COLLIERS INTERNATIONAL UNDER PREVIOUSLY AGREED-UPON COMMISSION TERMS AND EXPIRING ON AUGUST 31, 2020.

LIST OF EXHIBITS:

Exhibit “A” – Proposed Listing Agreement



EXCLUSIVE RIGHT TO REPRESENT OWNER
FOR SALE OR LEASE OF REAL PROPERTY
(Non-Residential)

1. BASIC PROVISIONS ("BASIC PROVISIONS").

1.1 Parties: This agency Agreement ("Agreement"), dated for reference purposes only February 25, 2020, is made by and between Irvine Ranch Water District, whose address is 15600 Sand Canyon, Irvine, CA 92618, telephone number (949) 453-5358, Fax No. (949) 453-0128 ("Owner"), and Cushman & Wakefield of California, Inc., whose address is 18111 Von Karman Avenue, Suite 1000, Irvine, CA 92612, telephone number (949) 474-4004, Fax No. (949) 474-0405, ("Agent").

1.2 Property/Premises: The real property, or a portion thereof, which is the subject of this Agreement is commonly known as (street address, city, state, zip) The Source H2O, Building B - with an address of 15550 Sand Canyon Ave, Irvine, CA 92618, located in the County of Orange, and generally described as (describe briefly the nature of the property): an approximate 70,000 square foot, under construction office project ("Property"). (See also Paragraph 3).

1.3 Term of Agreement: The term of this Agreement shall commence on March 1, 2020 and expire at 5:00 p.m. on August 31, 2020, except as it may be extended ("Term"). (See also paragraph 4)

1.4 Transaction: The nature of the transaction concerning the Property for which Agent is employed ("Transaction") is (check the appropriate box(es)):

- (a) [ ] A sale for the following sale price and terms: and other additional standard terms reasonably similar to those contained in the "STANDARD OFFER, AGREEMENT AND ESCROW INSTRUCTIONS FOR THE PURCHASE OF REAL ESTATE" published BY AIR CRE ("AIR"), or for such other price and terms agreeable to Owner;
(b) [x] A lease or other tenancy for the following rent and terms: and other additional standard terms reasonably similar to those contained in the appropriate AIR lease form or for such other rent and terms agreeable to Owner.

2. EXCLUSIVE EMPLOYMENT AND RIGHTS.

2.1 Owner hereby employs Agent as Owner's sole and exclusive agent to represent Owner in the Transaction and to find buyers or lessees/tenants ("lessees"), as the case may be, for the Property. Agent shall use reasonably diligent efforts to find such buyers or lessees. All negotiations and discussions for a Transaction shall be conducted by Agent on behalf of Owner. Owner shall promptly disclose and refer to Agent all written or oral inquiries or contacts received by Owner from any source regarding a possible Transaction.

2.2 Owner authorizes Agent to:

- (a) Place advertising signs on the Property;
(b) Place a lock box on the Property if vacant;
(c) Accept deposits from potential buyers or lessees; and
(d) Distribute information regarding the Property to participants in THE MULTIPLE ("MULTIPLE") of the AIR and/or any other appropriate local commercial multiple listing service, to other brokers, and to potential buyers or lessees of the Property.

Owner shall identify as "confidential" any information provided to Agent that Owner considers confidential and does not want disclosed. All other information provided by Owner may be disclosed as Agent may deem appropriate or necessary. After consummation of a Transaction, Agent may publicize the terms of such Transaction.

2.3 Agent shall comply with the Rules of Professional Conduct of the AIR, if a member or if not, the Rules of Professional Conduct of the Society of Industrial and Office Realtors, and shall submit the Property to the MULTIPLE. Agent shall cooperate with participants in the MULTIPLE and may, at Agent's election, cooperate with other real estate brokers (collectively "Cooperating Broker").

2.4 If the Transaction is a sale and Agent finds a prospective buyer for the Property, or if the Transaction is a lease and Agent finds a prospective lessee for the Property, Owner hereby authorizes Agent also to represent and act as the agent for such buyer or lessee, and Owner consents to such dual agency. If a Cooperating Broker finds such a buyer or lessee, then Agent shall act as agent for Owner only, the Cooperating Broker shall act as agent for the buyer or lessee only, and the Cooperating Broker shall not be Owner's agent, even though the Cooperating Broker may share in the commission paid by Owner to Agent. A Cooperating Broker shall not be an agent or subagent of Owner or Agent.

2.5 Owner agrees that Agent may, during the ordinary and normal course of marketing the Property, respond to inquiries on the Property by showing and providing information on the Property, as well as on other competing properties, to prospective buyers and lessees and that such activities may result in the payment of a commission to Agent by a third party. Owner understands that Agent may also represent other lessors/sellers with competing properties.

3. PROPERTY.

3.1 The term "Property" shall include all of the following which are currently located on the Property and owned by Owner: permanent improvements, electrical distribution systems (power panels, buss ducting, conduits, disconnects, lighting fixtures, etc.), telephone distribution systems (lines, jacks and connections), space heaters, air conditioning equipment, air lines, carpets, window coverings, wall coverings, partitions, doors, suspended ceilings, built-ins such as cabinets, and (if there are no additional items write "NONE"). If the Transaction is a sale, the term "Property" shall additionally include, to the extent owned by Owner, oil and mineral rights, leases and other agreements which will continue in effect after Owner's transfer of title to the Property.

3.2 Within five business days after the commencement of the Term hereof, Owner shall provide Agent with the following:

- (a) A duly completed and fully executed Property Information Sheet on the most current form published by the AIR;
(b) Copies of all leases, subleases, rental agreements, option rights, rights of first refusal, rights of first offer, or other documents containing any other limitations on Owner's right, ability and capacity to consummate a Transaction, and
(c) If available to Owner, copies of building plans, and if the Transaction is a sale, title reports, boundary surveys, and existing notes and trust deeds

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which will continue to affect the Property after consummation of a sale.

3.3 Agent shall have no responsibility for maintenance, repair, replacement, operation, or security of the Property, all of which shall be Owner's sole responsibility. Unless caused by Agent's gross negligence, Agent shall not be liable for any loss, damage, or injury to the person or property of Owner, any lessees of the Property, any buyer, prospective buyer, lessee, or prospective lessee, including, but not limited to, those which may occur as a result of Agent's use of a lock box.

4. **EXTENSION OF TERM.** If the Transaction is a sale, and a sale is not consummated for any reason after Owner accepts an offer to purchase the Property ("**Sale Agreement**"), then the expiration date of the Term of this Agreement shall be extended by the number of days that elapsed between the date Owner entered into the Sale Agreement and the later of the date on which the Sale Agreement is terminated or the date Owner is able to convey title to a new buyer free and clear of any claims by the prior buyer of the Property; provided, however, in no event shall the Term be so extended beyond one year from the date the Term would have otherwise expired.

5. **COMMISSION.**

5.1 Owner shall pay Agent a commission  in the amount of \_\_\_\_\_  in accordance with the commission schedule attached hereto ("**Agreed Commission**"), for a Transaction, whether such Transaction is consummated as a result of the efforts of Agent, Owner, or some other person or entity. Agent shall also be entitled to the Agreed Commission if any of the Owner's representations and warranties described in paragraph 8 are shown to be false. Such Agreed Commission is payable:

(a) If the Transaction is a sale, (i) the Property is sold; (ii) Owner breaches or repudiates any Sale Agreement, escrow instructions or other documents executed by Owner regarding the sale of the Property; (iii) the Property or any interest therein is voluntarily or involuntarily sold, conveyed, contributed or transferred; (iv) the Property or any interest therein is taken under the power of Eminent Domain or sold under threat of condemnation, or (v) if Owner is a partnership, joint venture, limited liability company, corporation, trust or other entity, and any interest in Owner is voluntarily or involuntarily sold, contributed, conveyed or transferred to another person or entity that, as of the date hereof, does not have any ownership interest in Owner;

(b) If the Transaction is a lease and a lease of the Property, or a portion thereof is executed; or

(c) If Owner (i) removes or withdraws the Property from a Transaction or the market; (ii) acts as if the Property is not available for a Transaction; (iii) treats the Property as not available for a Transaction; (iv) breaches, terminates, cancels or repudiates this Agreement; (v) renders the Property unmarketable; or (vi) changes the status of the Property's title, leases, agreements, physical condition or other aspects thereof, which such change adversely impacts the value, use, desirability or marketability of the Property.

(d) If earnest money or similar deposits made by a prospective purchaser or tenant are forfeited Agent shall be entitled to one-half (1/2) thereof, but not to exceed the total amount of the commission that would have been payable had the sale or lease transaction been consummated.

5.2 If the Transaction is a sale, the purchase agreement and/or escrow instructions to be entered into by and between Owner and a buyer of the Property shall provide that:

(a) Owner irrevocably instructs the escrow holder to pay from Owner's proceeds accruing to the account of Owner at the close of escrow the Agreed Commission to Agent;

(b) A contingency to the consummation of the sale shall be the payment of the Agreed Commission to Agent at or prior to close of the escrow; and

(c) No change shall be made by Owner or buyer with respect to the time of, amount of, or the conditions to payment of the Agreed Commission, without Agent's written consent.

6. **ALTERNATIVE TRANSACTION.** If the Transaction changes to any other transaction, including, but not limited to, a sale, exchange, option to buy, right of first refusal, ground lease, lease, sublease or assignment of lease (collectively "**Alternative Transaction**"), then Agent shall automatically be Owner's sole and exclusive Agent for such Alternative Transaction and represent Owner in such Alternative Transaction, under the terms and conditions of this Agreement. If, during the Term hereof, an Alternative Transaction is entered into, then Owner shall pay Agent the Agreed Commission.

7. **EXCLUDED AND REGISTERED PERSONS.**

7.1 Owner shall, within 5 business days after the date hereof, provide Agent, in writing, with the names of those persons or entities registered with Owner by any other broker under any prior agreement concerning the Property ("**Excluded Persons**", see paragraph 7.5). Owner shall also specify for each Excluded Person the type of transaction the consummation of which during the Term of this Agreement entitles such other broker to any compensation ("**Excluded Transaction**"). Agent may within 10 days of receiving such written list, either (a) accept the Excluded Persons and Excluded Transactions, (b) cancel this Agreement, or (c) attempt to renegotiate this portion of the Agreement with Owner. Once accepted by Agent, the written list shall automatically become an exhibit to this Agreement. If Owner timely provides Agent with the names of the Excluded Persons and specifies the Excluded Transaction for each Excluded Person, then the Agreed Commission paid to Agent with respect to consummation of such an Excluded Transaction with an Excluded Person shall be limited as follows: if such Excluded Transaction is concluded within the first 30 days of the commencement of the Term hereof, then Agent shall be paid a commission equal to the reasonable out-of-pocket expenses incurred by Agent in the marketing of the Property during said 30 days; or if such Excluded Transaction is concluded during the remainder of the Term hereof, then Agent shall be entitled to a commission equal to one-half of the Agreed Commission. If the specified information concerning Excluded Persons and Transactions is not provided as set forth herein, then it shall be conclusively deemed that there are no Excluded Persons.

7.2 Agent shall, within 5 business days after the expiration of the Term hereof, provide Owner, in writing, with the name of those persons or entities with whom Agent either directly or through another broker had negotiated during the Term hereof ("**Registered Persons**", see paragraph 7.5), and specify the type of transaction of the Property for which such negotiations were conducted ("**Registered Transaction**"). Those persons or entities who submitted written offers or letters of intent shall, however, automatically be deemed to be Registered Persons for the type of transaction which was the subject of such offer or letter of intent. If Agent fails to timely notify Owner of the existence of any other Registered Persons, then it shall be conclusively deemed that there are no other Registered Persons. A person or entity shall not be a Registered Person if Agent fails to timely specify a Registered Transaction for such person or entity. The parties are aware that the registration of certain individuals and/or entities might create a Dual Agency, and Owner hereby consents to any such Dual Agency.

7.3 If, within 180 days after the expiration of the Term hereof, Owner enters into a contract with a Registered Person for consummation of a Registered Transaction, then Owner shall, upon consummation of such Registered Transaction, pay Agent the Agreed Commission for the Registered Transaction.

7.4 If, within 180 days after the expiration of the Term hereof, Owner enters into another owner-agency or listing agreement with a broker other than Agent for any transaction concerning the Property, then Owner shall provide to Owner's new broker the names of the Registered Persons and the Registered Transaction for each Registered Person, and provide in such new agreement that the new broker shall not be entitled to receive any of the compensation payable to Agent hereunder for consummation of a Registered Transaction with a Registered Person.

7.5 In order to qualify to be an Excluded Person or a Registered Person the individual or entity must have: toured the Property, submitted a letter of interest or intent, and/or made an offer to buy or lease the Property. ~~In addition, Excluded Persons may only be registered by a broker who previously had a valid listing~~

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~~agreement covering the Property, and such broker may only register individuals and entities actually procured by such listing broker.~~

**8. OWNER'S REPRESENTATIONS.**

Owner represents and warrants that:

- (a) Each person executing this Agreement on behalf of Owner has the full right, power and authority to execute this Agreement as or on behalf of Owner;
- (b) Owner owns the Property and/or has the full right, power and authority to execute this Agreement and to consummate a Transaction as provided herein, and to perform Owner's obligations hereunder;
- (c) Neither Owner nor the Property is the subject of a bankruptcy, insolvency, probate or conservatorship proceeding;
- (d) Owner has no notice or knowledge that any lessee or sublessee of the Property, if any, is the subject of a bankruptcy or insolvency proceeding;
- (e) There are no effective, valid or enforceable option rights, rights of first refusal, rights of first offer or any other restrictions, impediments or limitations on Owner's right, ability and capacity to consummate a Transaction, except as disclosed in writing pursuant to Paragraph 3.2(b).
- (f) That as of the date of this Agreement the asking sales price is not less than the total of all monetary encumbrances on the Property.

**9. OWNER'S ACKNOWLEDGMENTS.** Owner acknowledges that it has been advised by Agent to consult and retain experts to advise and represent it concerning the legal and tax effects of this Agreement and consummation of a Transaction or Alternative Transaction, as well as the condition and/or legality of the Property, including, but not limited to, the Property's improvements, equipment, soil, tenancies, title and environmental aspects. Agent shall have no obligation to investigate any such matters unless expressly otherwise agreed to in writing by Owner and Agent. Owner further acknowledges that in determining the financial soundness of any prospective buyer, lessee or security offered, Owner will rely solely upon Owner's own investigation, notwithstanding Agent's assistance in gathering such information.

**10. MISCELLANEOUS.**

10.1 This Agreement shall not be construed either for or against Owner or Agent, but shall be interpreted, construed and enforced in accordance with the mutual intent of the parties ascertainable from the language of this Agreement. Signatures to this Agreement accomplished by means of electronic signature or similar technology shall be legal and binding.

10.2 All payments by Owner to Agent shall be made in lawful United States currency. If Owner fails to pay to Agent any amount when due under this Agreement, then such amount shall bear interest at the rate of 15% per annum or the maximum rate allowed by law, whichever is less.

10.3 In the event of litigation or arbitration between Owner and Agent arising under or relating to this Agreement or the Property, the prevailing party shall be paid its attorney's fees and costs by the losing party. The term, "Prevailing Party" shall include, without limitation, one who substantially obtains or defeats the relief sought, as the case may be, whether by compromise, settlement, judgment, or the abandonment by the other party of its claim or defense. The attorney's fees award shall not be computed in accordance with any court fee schedule, but shall be in an amount to fully reimburse all attorney's fees reasonably incurred in good faith.

10.4 Owner agrees to indemnify, defend (with counsel reasonably acceptable to Agent), and hold Agent harmless from and against any claim or liability asserted against Agent as a result of the failure of Owner to make a full and complete disclosure pursuant to law and paragraph 3.2(a) or as a result of the fact that any of the representations made by Owner (see paragraph 8) were not true at the time that this Agreement was signed.

10.5 Owner hereby releases and relieves Agent, and waives Owner's entire right of recovery against Agent, for direct or consequential loss or damage arising out of or incident to the perils covered by insurance carried by Owner, whether or not due to the negligence of Agent.

10.6 In the event that the Transaction is not an outright sale, Owner agrees that if Agent is not paid the Agreed Commission provided for herein within thirty days of the date due, that Agent shall have a lien in the amount of such commission, and may record a notice of such lien, against the Property.

10.7 Owner agrees that no lawsuit or other legal proceeding involving any breach of duty, error or omission relating to the services to be performed by Agent pursuant to this Agreement may be brought against Agent more than one year after the expiration of the Term of this Agreement (see paragraph 1.3) and that the liability (including court costs and attorney's fees) of Agent with respect to any such lawsuit and/or legal proceeding shall not exceed any fee received by Agent pursuant to this Agreement; provided, however, that the foregoing limitation on liability shall not be applicable to any gross negligence or willful misconduct of Agent.

**11. ARBITRATION OF DISPUTES.**

11.1 ANY CONTROVERSY ARISING UNDER OR RELATING TO THIS AGREEMENT SHALL BE DETERMINED BY BINDING ARBITRATION TO BE CONDUCTED BY:  THE AMERICAN ARBITRATION ASSOCIATION OR  \_\_\_\_\_ USING THE COMMERCIAL RULES ESTABLISHED BY SUCH ORGANIZATION OR IF NONE THE AMERICAN ARBITRATION ASSOCIATION'S COMMERCIAL RULES. ARBITRATION HEARINGS SHALL BE HELD IN THE COUNTY WHERE THE PROPERTY IS LOCATED.

11.2 NOTICE: BY INITIALING IN THE SPACE BELOW YOU ARE AGREEING TO HAVE ANY DISPUTE ARISING OUT OF THE MATTERS INCLUDED IN THE "ARBITRATION OF DISPUTES" PROVISION DECIDED BY NEUTRAL ARBITRATION AS PROVIDED BY CALIFORNIA LAW AND YOU ARE GIVING UP ANY RIGHTS YOU MIGHT POSSESS TO HAVE THE DISPUTE LITIGATED IN A COURT OR JURY TRIAL. BY INITIALING IN THE SPACE BELOW YOU ARE GIVING UP YOUR JUDICIAL RIGHTS TO DISCOVERY AND APPEAL, UNLESS THOSE RIGHTS ARE SPECIFICALLY INCLUDED IN THE "ARBITRATION OF DISPUTES" PROVISION. IF YOU REFUSE TO SUBMIT TO ARBITRATION AFTER AGREEING TO THIS PROVISION, YOU MAY BE COMPELLED TO ARBITRATE UNDER THE AUTHORITY OF THE CALIFORNIA CODE OF CIVIL PROCEDURE. YOUR AGREEMENT TO THIS ARBITRATION PROVISION IS VOLUNTARY.

11.3 WE HAVE READ AND UNDERSTAND THE FOREGOING AND AGREE TO SUBMIT DISPUTES ARISING OUT OF THE MATTERS INCLUDED IN THE "ARBITRATION OF DISPUTES" PROVISION TO NEUTRAL ARBITRATION.

\_\_\_\_\_  
Owner's Initials

\_\_\_\_\_  
Agent's Initials

11.4 THE PROVISIONS OF THE ABOVE ARBITRATION CLAUSE SHALL NOT BE BINDING ON EITHER PARTY UNLESS BOTH PARTIES HAVE PLACED THEIR INITIALS UNDER PARAGRAPH 11.3.

**12. Additional Provisions:** Additional provisions of this Agreement are set forth in the following blank lines or in an addendum attached hereto and made a part hereof consisting of paragraphs None through None (if there are no additional provisions write "NONE"):

**13. Disclosures Regarding The Nature of a Real Estate Agency Relationship.** When entering into an agreement with a real estate agent an Owner should from the outset understand what type of agency relationship or representation it has with the agent or agents in the transaction.

- (i) *Owner's Agent.* An Owner's agent may act as an agent for the Owner only. An Owner's agent or subagent has the following affirmative obligations:

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To the Owner: A fiduciary duty of utmost care, integrity, honesty, and loyalty in dealings. To a potential buyer/lessee and the Owner: a. Diligent exercise of reasonable skills and care in performance of the agent's duties. b. A duty of honest and fair dealing and good faith. c. A duty to disclose all facts known to the agent materially affecting the value or desirability of the property that are not known to, or within the diligent attention and observation of, the Parties. An agent is not obligated to reveal to either Party any confidential information obtained from the other Party which does not involve the affirmative duties set forth above.

(ii) *Agent Representing Both Parties.* A real estate agent, either acting directly or through one or more associate licenses, can legally be the agent of both Parties in a transaction, but only with the knowledge and consent of the Parties. In a dual agency situation, the agent has the following affirmative obligations to both Parties: a. A fiduciary duty of utmost care, integrity, honesty and loyalty in the dealings with either Party. b. Other duties to the Owner as stated above in subparagraph (i). When representing both Parties, an agent may not without the express permission of the respective Party, disclose to the other Party that the Owner will accept rent/purchase price in an amount less than that indicated in the listing or that the buyer/lessee is willing to pay a higher rent/purchase price than that offered.

The above duties of the Agent do not relieve Owner from the responsibility to protect its own interests. Owner should carefully read all agreements to assure that they adequately express its understanding of the transaction.

Date: \_\_\_\_\_

Date: \_\_\_\_\_

**OWNER**

**AGENT**

Irvine Ranch Water District

Cushman & Wakefield of California, Inc.

By: \_\_\_\_\_

By: \_\_\_\_\_

Name Printed: \_\_\_\_\_

Name Printed: \_\_\_\_\_

Title: \_\_\_\_\_

Title: \_\_\_\_\_

Agent DRE License #: 00616335

Address: \_\_\_\_\_

Phone: \_\_\_\_\_

Fax: \_\_\_\_\_

Email: \_\_\_\_\_

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**Proposed Commission Structure – Exhibit “A”**

**BUILDING LEASING**

Marketing Team: Kevin Turner and John Gallivan (Cushman & Wakefield) and Michael Hartel and Nick Velasquez (Colliers International)

<b>New Lease – Marketing Team represents both sides of the lease:</b>	
Years 1-5	(5%) = Five percent of NNN Base Rental for years 1-5.
Years 6-10	(2.5%) = Two and one-half percent of NNN Base Rental for years 6-10.
Years 11-15	(1.25%) = One and one-quarter percent of NNN Base Rental for years 11-15.

<b>New Lease – Tenant is represented by a broker other than the Marketing Team:</b>	
Years 1-5	(4.0%) = Four percent of NNN Base Rental for years 1-5 to the procuring Broker. (2.50%) = Two and one-half percent of NNN Base Rental for years 1-5 to Marketing Team.
Years 6-10	(2.5%) = Two and one-half percent of NNN Base Rental for years 6-10 to the procuring Broker. (1.25%) = One and one-quarter percent of NNN Base Rental for years 6-10 to Marketing Team.
Years 11-15	(1.25%) = One and one-quarter percent of NNN Base Rental for years 11-15. (0.75%) = Point seventy-five percent of NNN Base Rental for years 11-15.

AGREED & ACCEPTED

**IRVINE RANCH WATER DISTRICT**

**CUSHMAN & WAKEFIELD OF CALIFORNIA, INC.**

By: \_\_\_\_\_

By: \_\_\_\_\_

Name: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

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March 9, 2020  
Prepared and  
submitted by: K. Burton  
Approved by: Paul A. Cook



CONSENT CALENDAR

AMENDMENT NO. 9 TO THE SANTIAGO AQUEDUCT COMMISSION  
JOINT POWERS AGREEMENT

SUMMARY:

IRWD and County of Orange executed an agreement in February 2020 to transfer the County's 1.0 cubic feet per second (cfs) capacity in Reach 1U and 1.06 cfs capacity in Reaches 2U, 3U and 4U of the Baker Pipeline to IRWD. Amendment No. 9 to the Santiago Aqueduct Commission (SAC) Joint Powers Agreement recognizes the transfer of capacity and the resulting allocation of costs of maintenance, capital repairs and capital improvements to the Baker Pipeline. Amendment No. 9 also removes the County as a represented agency of the Santiago Aqueduct Commission. Staff recommends that the Board approve Amendment No. 9 to the SAC Joint Powers Agreement, subject to non-substantive changes.

BACKGROUND:

IRWD and the County executed an *Assignment and Assumption Agreement (Transfer Agreement)* in February 2020 to transfer the County's 1.0 cfs capacity in Reach 1U and 1.06 cfs capacity in Reaches 2U, 3U and 4U of the Baker Pipeline to IRWD. The Transfer Agreement is provided as Exhibit "A". The transfer of capacity rights and the resulting allocations of maintenance, capital repairs, and capital improvement costs became effective on February 11, 2020.

The intent of Amendment No. 9 to the SAC Joint Powers Agreement is to memorialize the effect of the Transfer Agreement and acknowledge that each of the SAC member and represented agencies not participating in the Transfer Agreement will retain the same capacity rights identified in Amendment No. 8 to the SAC Joint Powers Agreement. Additionally, Amendment No. 9 removes the County as a represented agency of SAC. Amendment No. 9 is provided as Exhibit "B".

The capacity of each SAC member and represented agency in each reach of the Baker Pipeline is shown in Exhibit "A" of Amendment No. 9. The maintenance, capital repair and capital improvement cost shares for each member and represented agency in each reach, and for the Baker Pipeline as a whole, are shown in Exhibit "B" of Amendment No. 9. The capacities and allocation of costs of maintenance, capital repairs and capital improvements of the non-participating Transfer Agreement SAC member and the represented agencies remain unchanged from Amendment No. 8.

FISCAL IMPACTS:

Effective February 11, 2020, the allocation of costs for maintenance, capital repairs and capital improvements will be allocated between the participating member agencies and represented

agencies as shown in Exhibit “B”. IRWD’s capacity purchase will have an added annual maintenance cost of approximately \$1,250.

ENVIRONMENTAL COMPLIANCE:

This activity is exempt from the California Environmental Quality Act (CEQA) as authorized under the California Code of Regulations, Title 14, Chapter 3, Section 15306 which provides exclusion for projects involving basic data collection, research, experimental management, and resource evaluation activities which do not result in a serious or major disturbance to an environmental resource. These may be strictly for information gathering purposes, or as part of a study leading to an action which a public agency has not yet approved, adopted, or funded.

COMMITTEE STATUS:

This item was reviewed by the Santiago Aqueduct Commission on December 19, 2019, and the Engineering and Operations Committee on February 18, 2020.

RECOMMENDATION:

THAT THE BOARD APPROVE AMENDMENT NO. 9 TO THE SANTIAGO AQUEDUCT COMMISSION JOINT POWERS AGREEMENT, SUBJECT TO NON-SUBSTANTIVE CHANGES.

LIST OF EXHIBITS:

- Exhibit “A” – Assignment and Assumption Agreement between Irvine Ranch Water District and the County of Orange
- Exhibit “B” – Amendment No. 9 to the Santiago Aqueduct Commission Joint Powers Agreement

# EXHIBIT "A"

## ASSIGNMENT AND ASSUMPTION AGREEMENT

This ASSIGNMENT AND ASSUMPTION AGREEMENT (“**Agreement**”) is dated \_\_\_\_\_, 2020 (the “**Effective Date**”) and is between **IRVINE RANCH WATER DISTRICT**, a California water district, organized under Division 13 of the California Water Code (“**IRWD**”), and the County of Orange (“**County**”). IRWD and County are each a “**Party**” and together are the “**Parties.**”

On or about April 13, 1961, the Los Alisos Water District, the El Toro Water District, and the Orange County Municipal Water District entered into the Santiago Aqueduct Commission Joint Powers Agreement (the “**JPA**”). The JPA created the Santiago Aqueduct Commission (“**Commission**”) to construct, maintain, repair and manage the Santiago Aqueduct (“**Aqueduct**”, also known as the “**Baker Pipeline**”), which would transmit water to the parties to the JPA.

The JPA was amended eight times, by: Amendment to the JPA (on or about September 11, 1961); Amendment No. 2 to the JPA (on or about January 1, 1978)(“**Amendment 2**”); Amendment No. 3 to the JPA (on or about January 13, 1978); Amendment No. 4 to the JPA (on or about September 1, 1981); Amendment No. 5 to the JPA (on or about October 22, 1986); Amendment No. 6 to the JPA (on or about July 8, 1999); Amendment No. 7 to the JPA (on or about June 19, 2014); and Amendment No. 8 to the JPA (dated March 21, 2019). These Amendments, along with all exhibits and attachments thereto, are collectively identified in this Agreement as the “**Amendments.**” Amendment 2 added IRWD as a party and as a member of the Commission and acknowledged that the County was a party to the JPA with respect to certain matters and was represented on the Commission by the Municipal Water District of Orange County. That amendment, and various other leases and subleases issued pursuant to the Amendments, granted the Parties certain rights and obligations with respect to the construction, maintenance, operation of water lines to be constructed parallel to the Aqueduct to supply water to, among others, the Parties. Pursuant to the JPA Amendments, the County possesses 1.0 cfs capacity in Reach 1U of the Aqueduct, and 1.06 cfs of capacity in each of Reaches 2U, 3U, and 4U of the Aqueduct (together the “**County Capacity Rights**”).

The Parties intend by this Agreement for the County to assign and transfer the County Capacity Rights, and any related rights and obligations under the JPA, memoranda of understanding, related agreements, the Amendments, and any other leases or subleases related thereto, to IRWD for valuable consideration.

The Parties therefore agree as follows:

1. Assignment. In exchange for IRWD’s payment to the County of the sum of \$227,790 (the “**Transfer Fee**”) concurrent with the delivery of this Agreement, the County hereby assigns and transfers to IRWD all of the County’s right, title, interest and obligations under the JPA and the Amendments including the County Capacity Rights (collectively, the “**County Interest**”) effective as of the Effective Date. Upon assignment and transfer of the County Interest as set forth in this section, IRWD accepts from the County all such County Interest, subject to the terms and conditions set forth in this Agreement.

2. Related Approvals. The Parties are not aware of any other approvals, acknowledgements, actions, confirmations, notices, consents or permissions required to be obtained or given in order for the County Capacity Rights and County Interest to transfer to IRWD (collectively “**Approvals**”). However, the Parties acknowledge that the Commission members intend to amend the JPA to account for the effect of this Agreement on the ownership of capacity within the Aqueduct. In the event Approvals are required, then IRWD will notify County and use its best efforts to obtain the Approvals on behalf of the Parties, at its own expense. The County agrees to reasonably cooperate with IRWD’s efforts.

3. Assumption. IRWD assumes and agrees to perform and fulfill all the terms, covenants, conditions, and obligations required to be performed and fulfilled by the County under the JPA and the Amendments.

4. Assignor Representations. The County represents that, to the County’s knowledge, (a) the County has not previously transferred or assigned any portion of the County Interest (including the County Capacity Rights), (b) the County has not amended, modified or terminated the JPA or the Amendments except as set forth therein, and (c) the County has not breached the JPA or the Amendments.

5. As-Is; Where-Is. Except as otherwise set forth in Section 4 above, IRWD acknowledges and agrees that it is accepting the assignment and conveyance of the County Interest based solely upon IRWD’s inspection and investigation of the same and all documents related thereto, or its opportunity to do so, and the County Interest is assigned in an “AS IS, WHERE IS” condition, without relying upon any representation or warranties, express, implied or statutory, of any kind. Except for a breach or misrepresentation caused exclusively by the County, in the event the Parties receive a third-party claim or demand related to this Agreement, or in the event the Parties are named in an action by a third party for issues related to this Agreement, the Parties shall notify the other of such event(s) and IRWD shall represent the County in any legal action unless the County undertakes to represent itself as co-defendant, in which event IRWD shall pay to County its litigation expenses, costs and attorneys’ fees. In the event the Parties suffer any losses, damages, costs, charges, or expenses, including reasonable attorney’s fees related to an action arising out of or related to this Agreement (except for litigation arising out of or related to a breach or misrepresentation caused exclusively by the County), and if judgment is entered against County and IRWD, an apportionment of liability to pay such judgment shall be made by a court of competent jurisdiction. Neither Party shall request a jury apportionment. Notwithstanding anything to the contrary, the County’s aggregate liability in connection with this Agreement shall not exceed the amount of the Transfer Fee.

6. Successors and Assigns. This Agreement will be binding on and inure to the benefit of the Parties, their heirs, executors, administrators, successors in interest, and assigns.

7. Choice of Law and Venue. All matters relating to this Agreement are governed by the laws of the State of California, and venue for any action related to the Agreement shall be the Superior Court of Orange County.



8. Notice. Any notice will be deemed given by depositing it in the United States Mail, first class, return receipt requested, or by courier or overnight delivery service and addressed as follows:

If to IRWD:

Irvine Ranch Water District  
16500 Sand Canyon Avenue  
P.O. Box 5700  
Irvine, CA 92619-7000  
Attn: Paul A. Cook, General Manager

If to the County:

County of Orange  
Sheriff's Department  
Attn: Director of Research and Development  
431 The City Drive South  
Orange, CA 92868

With a copy to:

County of Orange  
Executive Office  
Attn: Chief Real Estate Officer  
333 W. Santa Ana Boulevard, 3rd Floor  
Santa Ana, CA 92701

9. Amendment. Any amendment or modification of this Agreement must be written and properly executed by both Parties.

10. Interpretation. Each Party has participated in negotiating and drafting this Agreement, so if an ambiguity or a question of intent or interpretation arises, this Agreement is to be construed as if the Parties had drafted it jointly, as opposed to being construed against a party because it was responsible for drafting one or more provisions of this Agreement.

11. Further Assurances. The Parties shall take such actions, or execute, acknowledge and deliver, or obtain the execution, acknowledgment, and delivery of such instruments as are reasonably necessary, appropriate or desirable to give effect to the provisions of this Agreement.

12. Entire Agreement. This Agreement constitutes the entire agreement between the Parties regarding the County's assignment and IRWD's assumption of all of the County Interest. This Agreement supersedes all prior or contemporaneous agreements, commitments, conditions, discussions, instruments, offers, promises and/or proposals between the Parties regarding the County's assignment and IRWD's assumption of all of the County Interest, whether oral or written.

13. Authority. The Parties represent that the individuals executing this Agreement have the legal power, right and actual authority to bind that Party to the terms and conditions of this Agreement.

IRWD and the County are signing this Agreement to be effective as of the Effective Date.

**COUNTY OF ORANGE, a political subdivision  
of the State of California**

By: \_\_\_\_\_  
Chairwoman of the Board of Supervisors  
Orange County, California

Signed and certified that a copy of this document  
has been delivered to the Chair of the Board per  
Government Code Section 25103, Resolution 79-1535.

ATTEST:

\_\_\_\_\_  
Robin Stieler  
Clerk of the Board of Supervisors  
Orange County, California

APPROVED AS TO FORM  
Office of the County Counsel  
Orange County, California

By:  \_\_\_\_\_  
Deputy County Counsel

**IRVINE RANCH WATER DISTRICT**

By:  \_\_\_\_\_  
Paul A. Cook, General Manager

**APPROVED AS TO FORM:**  
Hanson Bridgett LLP

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

EXHIBIT "B"

AMENDMENT NO. 9  
TO THE  
SANTIAGO AQUEDUCT COMMISSION  
JOINT POWERS AGREEMENT

This Amendment No. 9 to the Santiago Aqueduct Commission Joint Powers Agreement (“**Amendment No. 9**”) is effective July 1, 2020, and is between the following six member agencies of the SANTIAGO AQUEDUCT COMMISSION (the “**Commission**”) created by a Joint Powers Agreement dated September 11, 1961 (as amended, the “**Joint Powers Agreement**”):

EL TORO WATER DISTRICT;  
IRVINE RANCH WATER DISTRICT (“**IRWD**”) on its own behalf and as assignee of the County of Orange (the “**County**”);  
MOULTON NIGUEL WATER DISTRICT;  
MUNICIPAL WATER DISTRICT OF ORANGE COUNTY (formerly known as Orange County Municipal Water District) (“**MWDOC**”) on behalf of represented agency EAST ORANGE COUNTY WATER DISTRICT (“**EOCWD**”);  
SANTA MARGARITA WATER DISTRICT; and  
TRABUCO CANYON WATER DISTRICT (formerly known as Santa Ana Mountains County Water District).

The member agencies are also sometimes referred to as the “**Parties.**” EOCWD is a “**represented agency**” but is not a member agency.

The Joint Powers Agreement has been previously amended by the following amendments: the first Amendment (December 20, 1974); Amendment No. 2 (January 13, 1978); Amendment No. 3 (November 1, 1978); Amendment No. 4 (September 1, 1981); Amendment No. 5 (October 22, 1986), Amendment No. 6 (July 8, 1999); Amendment No. 7 (June 19, 2014), and Amendment No. 8 (March 21, 2019).

The Joint Powers Agreement (as amended) establishes certain hydraulic grade lines and capacity rights for the member agencies and represented agencies in the various reaches of the Santiago Aqueduct, also known as the Baker Pipeline. The costs of maintenance, capital repairs, and capital improvements to the Baker Pipeline are allocated to the member agencies and represented agencies in proportion to each party’s capacity rights in each reach as compared with the total capacity for each reach and in proportion to the length of each reach as compared with the entire length of the Baker Pipeline.

Capacity rights in the Baker Pipeline have been transferred among various member agencies and represented agencies, as previously reflected in the tables set forth in Amendment No. 8.

In 2020, IRWD and the County executed an *Assignment and Assumption Agreement* (the “**Transfer Agreement**”) to transfer the County’s capacity in the Baker Pipeline to IRWD. The transfer of capacity rights and the resulting allocations of maintenance, capital repairs, and capital improvement costs became effective as of February 11, 2020. The Parties intend by this

Amendment No. 9 to memorialize the effect of the Transfer Agreement and acknowledge that each of the Parties and represented agencies not participating in the Transfer Agreement will retain the same capacity rights identified in Amendment No. 8.

Therefore, the Parties amend the Joint Powers Agreement as follows:

SECTION 1. Exhibit A to this Amendment No. 9 identifies the capacities and hydraulic grade lines in the Baker Pipeline resulting from the Transfer Agreement. Exhibit B to this Amendment No. 9 identifies the corresponding allocation of costs of maintenance, capital repairs, and capital improvements for each reach of the Baker Pipeline and the Baker Pipeline in its entirety. Both exhibits are incorporated by reference into the Joint Powers Agreement and replace and supersede the prior Exhibits A and B.

SECTION 2. In order to reflect the transfer of the County's capacity to IRWD, the first two paragraphs of Section 3 of the Joint Powers Agreement, as amended by Amendment No. 8, are amended to read as follows:

“The Commission shall consist of six (6) regular members, one (1) regular member to be selected by each of the following member agencies:

El Toro Water District;  
Irvine Ranch Water District;  
Moulton Niguel Water District;  
Municipal Water District of Orange County;  
Santa Margarita Water District; and  
Trabuco Canyon Water District.

The Commission shall maintain and operate the Baker Pipeline. Each member agency shall have one vote. MWDOC shall represent itself and EOCWD. Each member agency may appoint two alternate members, designated a first alternate member and a second alternate member, to the Commission.”

SECTION 3. The Parties shall execute this Amendment No. 9 in duplicate, each identical duplicate of which will be considered an original.

*[Signatures appear on following pages.]*

The Parties have executed this Amendment No. 9 on the dates set forth below.

DATED: \_\_\_\_\_

EL TORO WATER DISTRICT

By: \_\_\_\_\_  
President

By: \_\_\_\_\_  
Secretary

APPROVED AS TO FORM:  
Redwine and Sherrill, LLP

By: \_\_\_\_\_  
District Counsel

DATED: \_\_\_\_\_

IRVINE RANCH WATER DISTRICT

By: \_\_\_\_\_  
President

By: \_\_\_\_\_  
Secretary

APPROVED AS TO FORM:  
Hanson Bridgett, LLP

By: \_\_\_\_\_  
District Counsel

DATED: \_\_\_\_\_

MOULTON NIGUEL WATER DISTRICT

By: \_\_\_\_\_  
President

By: \_\_\_\_\_  
Secretary

APPROVED AS TO FORM:  
Best Best & Krieger LLP

By: \_\_\_\_\_  
District Counsel

DATED: \_\_\_\_\_

MUNICIPAL WATER DISTRICT OF ORANGE COUNTY

By: \_\_\_\_\_  
President

By: \_\_\_\_\_  
Secretary

APPROVED AS TO FORM:  
Best Best & Krieger, LLP

By: \_\_\_\_\_  
District Counsel

DATED: \_\_\_\_\_

SANTA MARGARITA WATER DISTRICT

By: \_\_\_\_\_  
President

By: \_\_\_\_\_  
Secretary

APPROVED AS TO FORM:  
Best Best & Krieger, LLP

By: \_\_\_\_\_  
District Counsel

DATED: \_\_\_\_\_

TRABUCO CANYON WATER DISTRICT

By: \_\_\_\_\_  
President

By: \_\_\_\_\_  
Secretary

APPROVED AS TO FORM:  
Atkinson, Andelson, Loya, Ruud & Romo, LLP

By: \_\_\_\_\_  
District Counsel

EXHIBIT A

SANTIAGO AQUEDUCT COMMISSION  
BAKER PIPELINE  
PIPELINE CAPACITIES

	<b>Reach 1U</b>	<b>Reach 2U</b>	<b>Reach 3U</b>	<b>Reach 4U</b>	<b>Reach 5U</b>
<b>Length (LF)</b>	9,400	10,425	7,950	28,500	6,070
<b>HGL Elevation at End of Reach <sup>1</sup></b>	816	788	770	703	690
<b>Agency</b>	<b>CFS</b>	<b>CFS</b>	<b>CFS</b>	<b>CFS</b>	<b>CFS</b>
East Orange County Water District	10.00	-	-	-	-
Irvine Ranch Water District <sup>2</sup>	50.00	15.65	11.60	11.60	10.50
Santa Margarita Water District	13.00	13.08	13.05	13.05	13.00
Trabuco Canyon Water District	8.00	8.05	8.03	8.03	8.00
El Toro Water District	5.00	5.00	5.00	5.00	5.00
Moulton Niguel Water District	13.00	13.00	13.00	13.00	13.00
<b>Total Capacity</b>	<b>99.00</b>	<b>54.78</b>	<b>50.68</b>	<b>50.68</b>	<b>49.50</b>

<sup>1</sup> Beginning HGL elevation of 832 at OC-33

<sup>2</sup> Includes IRWD purchase of County of Orange capacity in Reaches 1U, 2U, 3U, and 4U. All other capacities remain unchanged from JPA Amendment No. 8.



EXHIBIT B

PIPELINE CAPACITIES  
 MAINTENANCE, CAPITAL REPAIR, AND CAPITAL IMPROVEMENT SHARE, TOTAL AND BY REACH

	Reach 1U		Reach 2U		Reach 3U		Reach 4U		Reach 5U		Total Pipeline	
Length (LF)	9,400		10,425		7,950		28,500		6,070		62,345	
	Capacity	%	Capacity	%	Capacity	%	Capacity	%	Capacity	%	Capacity	%
	Length		Length		Length		Length		Length		Length	
<b>East Orange County Water District</b>	94,000	9.53%	-	-	-	-	-	-	-	-	94,000	2.58%
<b>Irvine Ranch Water District</b>	470,000	50.79%	163,152	28.85%	92,220	23.06%	330,600	23.06%	63,735	21.22%	1,119,707	30.68%
<b>Santa Margarita Water District</b>	122,200	13.35%	136,359	23.65%	103,747	25.61%	371,925	25.61%	78,910	26.26%	813,141	22.28%
<b>Trabuco Canyon Water District</b>	75,200	8.15%	83,921	14.64%	63,839	15.81%	228,855	15.81%	48,560	16.16%	500,375	13.71%
<b>El Toro Water District</b>	47,000	5.05%	52,125	9.13%	39,750	9.87%	142,500	9.87%	30,350	10.10%	311,725	8.54%
<b>Moulton Niguel Water District</b>	122,200	13.13%	135,525	23.73%	103,350	25.65%	370,500	25.65%	78,910	26.26%	810,485	22.21%
<b>Total</b>	930,600	100%	571,082	100%	402,906	100%	1,444,380	100%	300,465	100%	3,649,433	100%

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March 9, 2019  
Prepared by: J. Corey / K. Welch  
Submitted by: F. Sanchez / P. Weghorst  
Approved by: Paul A. Cook



## CONSENT CALENDAR

### FINAL INITIAL STUDY/MITIGATED NEGATIVE DECLARATION FOR THE ZONE A TO RATTLESNAKE RESERVOIR PUMP STATION PROJECT

#### SUMMARY:

A Final Initial Study/Mitigated Negative Declaration (IS/MND) has been prepared for the proposed Zone A to Rattlesnake Reservoir Pump Station Project (Project). The Project involves the demolition and replacement of the existing Rattlesnake Reservoir Pump Station No. 2 with a new Zone A to Rattlesnake Reservoir pump station. The Project also includes improvements to other existing facilities within the Rattlesnake Reservoir Complex. Staff recommends the Board adopt the Final IS/MND and the associated Mitigation Monitoring and Reporting Program for the Project. Staff also recommends that the Board approve the Project and authorize staff to file a Notice of Determination.

#### BACKGROUND:

The existing Pump Station No. 2, which delivers recycled water from the Zone A system to the Rattlesnake Reservoir, was constructed in 1976 and has reached the end of its useful life. The Project will replace Pump Station No. 2 with the new Zone A to Rattlesnake Reservoir pump station. The Project is located within the Rattlesnake Reservoir Complex as shown on the location map provided as Exhibit "A". The complex consists of several other critical facilities including the Rattlesnake Reservoir, the Zone A North Reservoir, Northwood Zone A to B pump station, Zone A to C+ pump station, Zone 3 to 5 pump station, dechlorination facility, chlorination facility, Rattlesnake Reservoir strainers, IRWD caretaker residence, and several aboveground and below ground piping and valving systems. The Project as proposed involves the following key elements:

- Demolition and replacement of the existing Pump Station No. 2 with a new Zone A to Rattlesnake pump station, equipped with all electric motor-driven pumps to meet current capacity demand and future Michelson Water Recycling Plant production;
- Demolition of the Northwood Zone A to B Pump Station;
- Demolition of the existing septic system and extension of the existing sewer piping to connect the existing caretaker's house, the park bathroom sewer lateral, and a new bathroom, to be located within the existing chlorine facility;
- Demolition and replacement of the existing dechlorination storage and feed equipment;
- Construction of a new filtration system intended for increased algae control;
- Demolition and removal of the existing strainers;
- Demolition and removal of the existing Rattlesnake Reservoir return pump station and construction of the new Rattlesnake Reservoir return pump station;
- Construction of new automatic filters and backwash pumps in an enclosed building;
- Piping improvements and appurtenances and electrical improvements;
- Installation of a permanent standby power generator;
- Replacement and upgrade of the Rattlesnake Complex's communications equipment; and
- General site improvements to the entry road and facility.

*Environmental Review:*

A Draft IS/MND for the Project was prepared by environmental consultants at Psomas. On January 6, 2020, the Draft IS/MND was circulated for a 30-day public review period pursuant to the California Environmental Quality Act (CEQA). The 30-day public review period concluded on February 4, 2020. Within the review period, comment letters were received from the Orange County Fire Authority and the City of Irvine. One additional comment letter from the California Department of Water Resources was received after the public review period had closed. Even though consideration of late comments is not required by the CEQA guidelines, staff reviewed all comments received and worked with Psomas to prepare responses to comments and a Mitigation Monitoring and Reporting Plan, which are included in the Final IS/MND that is provided as Exhibit "B".

FISCAL IMPACTS:

The funds necessary for the environmental review and required filing fees associated with the proposed Project are included in Project 05476 in the FY 2019-21 Capital Budget. The existing budget and Expenditure Authorizations are sufficient at this time.

ENVIRONMENTAL COMPLIANCE:

This Project is subject to 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 and the State Clearinghouse on January 6, 2020. Pursuant to State Guideline §15073, the IS/MND was made available for public review for a period of 30 days from January 6, 2020, through February 4, 2020.

COMMITTEE STATUS:

Environmental compliance items are typically not reviewed by a Committee.

RECOMMENDATION:

THAT THE BOARD FIND 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 ZONE A TO RATTLESNAKE RESERVOIR 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; ADOPT THE PROPOSED FINAL MITIGATED NEGATIVE DECLARATION FOR THE ZONE A TO RATTLESNAKE RESERVOIR PUMP STATION PROJECT AND THE ASSOCIATED MITIGATION MONITORING AND REPORTING PROGRAM; APPROVE THE ZONE A TO RATTLESNAKE RESERVOIR PUMP STATION PROJECT; AND AUTHORIZE STAFF TO POST AND FILE A NOTICE OF DETERMINATION.

Consent Calendar: Final Initial Study/Mitigated Negative Declaration for the Zone A to Rattlesnake Reservoir Pump Station Project

March 9, 2020

Page 3

LIST OF EXHIBITS:

Exhibit "A" – Zone A to Rattlesnake Reservoir Pump Station Project Location Map

Exhibit "B" – Zone A to Rattlesnake Reservoir Pump Station Project Final Initial Study/Mitigated Negative Declaration

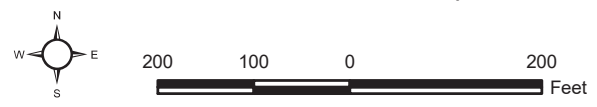
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Aerial Source: Esri, DigitalGlobe 2018

**Aerial Photograph**  
*Zone A to Rattlesnake Reservoir Pump Station Project*



(Rev. 12-13-2019 RMB) R:\Projects\IRW\_IRWD\3IRW000902\Graphics\ISMND\ex2-2\_AerialPhoto\_20190730.pdf

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**A COPY OF EXHIBIT “B”  
CAN BE OBTAINED FROM  
THE DISTRICT  
SECRETARY**

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March 9, 2020  
Prepared by: J. Corey / K. Welch  
Submitted by: F. Sanchez / P. Weghorst  
Approved by: Paul A. Cook



## ACTION CALENDAR

### ON-CALL ENVIRONMENTAL CONSULTANT SELECTIONS

#### SUMMARY:

Irvine Ranch Water District uses Professional Service Agreements to secure on-call environmental compliance and permitting services pursuant to the California Environmental Quality Act (CEQA), the National Environmental Policy Act (NEPA), and other regulatory requirements. Staff has solicited and evaluated proposals from firms to perform future on-call environmental and permitting services. Staff recommends the Board authorize the General Manager to:

- Execute Professional Services Agreements for on-call CEQA/NEPA services to be provided for the next four years with Environmental Science Associates (ESA), Dudek, LSA Associates, Inc. and Psomas for \$400,000 each, and
- Execute Professional Services Agreements for on-call permitting services to be provided for the next four years with Harmsworth Associates, ESA and Psomas for \$400,000 each.

#### BACKGROUND:

##### On-Call CEQA/NEPA Services:

IRWD must comply with the requirements of CEQA for all project activities. Where federal government action or funding is involved, compliance with NEPA is required. The use of on-call Professional Services Agreements for CEQA/NEPA work allows staff to efficiently address environmental review requirements for projects. The types of tasks performed under on-call CEQA/NEPA Professional Services Agreements include general consultations and the preparation of Negative Declarations, Mitigated Negative Declarations, Environmental Impact Reports, Addenda, Environmental Assessments, and Findings of No Significant Impact. Over the past three years, approximately \$466,405 of CEQA/NEPA services were obtained on an on-call basis under agreements with environmental consultants at ESA, LSA and Psomas.

##### On-Call Biological Monitoring and Permitting Services:

IRWD must also comply with statutes, regulations, policies, and programs that require permitting to carry out new projects, conduct operations and maintenance activities, and to address emergency conditions. The use of on-call Professional Service Agreements for biological monitoring and permitting services allows IRWD to task consultants with time-sensitive activities. The majority of the tasks performed under on-call monitoring and permitting Professional Services Agreements include biological surveys, preparation of regulatory agency permit applications, wetland delineations and jurisdictional delineations, and mitigation monitoring. Over the past three years, approximately \$302,000 of monitoring and permitting services were obtained on an on-call basis under agreements with Harmsworth Associates and Glen Lukos Associates.

Future On-Call Requirements:

In order to estimate future on-call CEQA/NEPA and permitting needs, staff reviewed past utilization of on-call consultants. Staff then reviewed the capital budget for the next several years and determined that numerous future projects will result in an increased need for the preparation of environmental documents for CEQA/NEPA compliance. Additionally, numerous existing and future capital projects will result in an increased need for multi-year mitigation monitoring reporting and permitting assistance. Based on these expectations, staff has estimated future on-call CEQA/NEPA and permitting needs for the next four years.

Staff recommends that Professional Service Agreements be awarded to five firms to provide on-call services for the next four years. Four of the firms are recommended to provide CEQA/NEPA services under agreements for amounts up to \$400,000 each, and three of the firms are recommended to provide monitoring and permitting services under agreements for amounts up to \$400,000 each. Under these agreements, staff will issue project-specific task orders based on negotiated scopes of work, cost estimates and schedules for projects that have existing approved budgets.

Consultant Selections:

A Request for Proposal (RFP) for on-call CEQA/NEPA services was distributed to four environmental consulting firms. Proposals to provide on-call CEQA/NEPA consulting services were received from ESA, LSA, Dudek and Psomas. Within the RFP, the consultants were asked to demonstrate:

- A thorough understanding of CEQA and NEPA and associated processes;
- A broad expertise and experience in performing CEQA/NEPA analysis and review work;
- A history of successful CEQA/NEPA activities on behalf of its clients; and
- A long-standing working relationship with the natural resources agencies and their representatives.

A separate RFP for on-call monitoring and permitting services was distributed to four environmental consulting firms. Proposals for providing on-call monitoring and permitting services were received from Harmsworth Associates, ESA and Psomas. Glenn Lukos Associates declined to submit, citing limited firm resources. The monitoring and permitting RFP asked the consultants to:

- Demonstrate an understanding of the processes of natural resources, wildlife and regulatory requirements as well as the agencies with jurisdiction over permits and mitigation requirements;
- Commit to responding to requests for service from IRWD in a timely and cost-effective manner; and
- Document their knowledge and experience with endangered species issues and regulations, mitigation monitoring and reporting, IRWD's Natural Treatment System and the Natural Community Conservation Plan.

Staff reviewed and evaluated each of the consultants' proposals and recommends that Professional Services Agreements be awarded for CEQA/NEPA services to ESA, LSA, Dudek and Psomas for \$400,000 each. Staff also recommends that Professional Services Agreements for biological monitoring and permitting services be awarded to Harmsworth Associates, Psomas, and ESA for \$400,000 each. The duration of each agreement will be four years.

Each recommended firm has demonstrated extensive knowledge and experience with CEQA, NEPA, monitoring and permitting requirements. Each firm has committed to staff availability on an on-call basis and demonstrated excellent project team qualifications. Each firm has also demonstrated previous experience assisting IRWD with various CEQA/NEPA and permitting projects. A CEQA/NEPA services assessment matrix based on evaluation of the proposals is provided as Exhibit "A" and an assessment matrix for Monitoring and Permitting services is provided as Exhibit "B." Pertinent sections of the CEQA/NEPA proposals from the recommended firms of ESA, LSA, Psomas, and Dudek are included as Exhibits "C," "D," "E," and "F", respectively. Pertinent sections of the Monitoring and Permitting proposals from the recommended firms of Harmsworth Associates, ESA, and Psomas are included as Exhibits "G", "H", and "I", respectively.

FISCAL IMPACTS:

No new project budgets are required in executing these Professional Services Agreements. Task orders for specific projects with existing approved budgets will be issued to the consultants under the terms of the agreements and negotiated scopes of work, costs and schedules.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on February 18, 2020.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE PROFESSIONAL SERVICE AGREEMENTS WITH ENVIRONMENTAL SCIENCE ASSOCIATES (ESA), LSA, DUDEK AND PSOMAS TO PROVIDE ON-CALL CEQA/NEPA SERVICES FOR THE NEXT FOUR YEARS FOR NOT-TO-EXCEED AMOUNTS OF \$400,000 EACH AND WITH HARMSWORTH ASSOCIATES, PSOMAS AND ESA TO PROVIDE ON-CALL MONITORING AND PERMITTING SERVICES FOR THE NEXT FOUR YEARS FOR NOT-TO-EXCEED AMOUNTS OF \$400,000 EACH.

LIST OF EXHIBITS:

Exhibit "A" – CEQA/NEPA Services Evaluation Matrix

Exhibit "B" – Monitoring and Permitting Services Evaluation Matrix

Exhibit "C" – ESA Proposal for On-Call CEQA/NEPA Services

Exhibit "D" – LSA Proposal for On-Call CEQA/NEPA Services

Exhibit "E" – Psomas Proposal for On-Call CEQA/NEPA Services

Exhibit "F" – Dudek Proposal for On-Call CEQA/NEPA Services

Exhibit "G" – Harmsworth Associates Proposal for On-Call Monitoring and Permitting Services

Exhibit "H" – ESA Proposal for On-Call Monitoring and Permitting Services

Exhibit "I" – Psomas Proposal for On-Call Monitoring and Permitting Services

# EXHIBIT "A"

## 2020 ON-CALL CEQA / NEPA CONSULTATION SERVICES EVALUATION MATRIX

Item	Description	Weights	LSA	ESA	Psomas	Dudek
<b>A</b>	<b><u>Demonstration of CEQA/NEPA Skills and Rates</u></b>					
1	Understanding of IRWD's Needs	20%	4	1	3	2
2	Demonstration of CEQA Skills and Abilities	20%	4	1	3	2
3	Demonstration of NEPA Skills and Abilities	20%	4	1	3	2
4	Provided Staff Rates Consistent with Skills and Abilities Over Range of Staff on Project	20%	3	2	1	4
5	Demonstrated Ability to Coordinate with Other Consultants / Engineers	10%	4	1	2	3
6	Demonstrated Experience with MMRP's	10%	4	1	2	3
	<b>Weighted Score</b>	<b>30%</b>	<b>3.8</b>	<b>1.2</b>	<b>2.4</b>	<b>2.6</b>
<b>B</b>	<b><u>DEMONSTRATION OF PROJECT SCOPING, COST ESTIMATING, AND SCHEDULING</u></b>					
1	Demonstrated Knowledge of Scope of Work	33.33%	4	1	3	2
2	Demonstrated Knowledge of Cost Estimates	33.33%	4	1	2	3
3	Demonstrated Knowledge of Project Schedules	33.33%	3	1	4	2
	<b>Weighted Score</b>	<b>30%</b>	<b>3.7</b>	<b>1.0</b>	<b>3.0</b>	<b>2.3</b>
<b>C</b>	<b><u>QUALIFICATION AND EXPERIENCE</u></b>					
1	Principal in Charge	20%	Nicole Dubois MS, 18 yrs 4.00	Tom Barnes BA, 25+ yrs exp. 1.00	Jim Hunter BS, 34 yrs 3.00	Joe Monoco MCP, AICP, 32 yrs 2.00
2	Project/Contract Manager	30%	Nicole Dubois MS, 18 yrs 4.00	Jennifer Jacobus Ph.D 16+ yrs exp 1.00	Jennifer Marks BS, 21 yrs exp 3.00	Rachel Struglia Ph.D 21 yrs exp 2.00
3	Project Team	30%	3.00	1.00	4.00	2.00
4	Firm's Relevance Experience	20%	4.00	2.00	3.00	1.00
	<b>Weighted Score</b>	<b>20%</b>	<b>3.7</b>	<b>1.2</b>	<b>3.3</b>	<b>1.8</b>
<b>D</b>	<b><u>REFERENCES</u></b>					
	Reference Project 1		Eastwood RW Pump Station MND	Syphon Reservoir Geotech MND/Syphon Reservoir EIR	3.7 MG Zn 1 Reservoir MND	Syphon Interim Facilities MND
	Score	50%	3	1	2	4
	Reference Project 2		San Joaquin Reservoir Filtration MND	Peters Canyon Channel Reuse Project MND	Zn A-Rattlesnake Pump Station MND	LF Sports Park EIR Addendums 1
	Score	50%	4	1	2	3
	<b>Weighted Score</b>	<b>20%</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>3</b>
	<b><u>COMBINED WEIGHTED SCORE</u></b>	<b>100%</b>	<b>3.68</b>	<b>1.10</b>	<b>2.68</b>	<b>2.44</b>
<b>E</b>	<b><u>OTHER</u></b>					
	Multiplier		Not Listed	1.15 travel; 3%communications	Not Listed	Not Listed
	Sub Consultants		None	None	None	None
	Exceptions taken to IRWD Std. Contract		None	None	None	None
	Insurance (General Liability)		Yes	Yes	Yes	Yes
	Insurance (Professional)		Yes	Yes	Yes	Yes
	<b>Forced Rankings: (Enter 1, 2, 3 or 4, 1 being best)</b>		<b>4</b>	<b>1</b>	<b>3</b>	<b>2</b>

**FEES**

Principal in Charge	\$240	\$300	\$230	\$290
Contract Mgr	n/a	\$240	\$165	\$290
Associate Enviro Planner	\$190	n/a	n/a	n/a
Sr. Enviro Planner	\$165	n/a	n/a	n/a
Enviro Specialist V/III/I	n/a	n/a	n/a	\$180/145/130
Managing Associate II	n/a	\$190	n/a	n/a
Associate I	n/a	\$125	n/a	n/a

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# EXHIBIT "B"

## 2020 ON-CALL MONITORING & PERMITTING CONSULTATION SERVICES EVALUATION MATRIX

Item	Description	Weights	ESA	Harmsworth	Psomas
<b>A</b>	<b><u>Demonstration of Permitting Skills and Rates</u></b>				
1	Understanding of IRWD's Needs	10%	2	1	3
2	Land Use Planning	5%	3	1	2
3	Regulatory Agency Consultation, Permit Application and Procurement	10%	2	1	3
4	Wetland Delineation	10%	1	2	3
5	Biological Survey, Monitoring, Assessment	10%	2	1	3
6	Threatened & Endangered Species Regulation, Monitoring and Reporting	10%	2	1	3
7	Mitigation Monitoring and Reporting	5%	3	1	2
8	Water Quality, Stormwater Monitoring and Reporting	5%	1	2	3
9	Natural Treatment System (NTS)	10%	2	1	3
10	Natural Community Conservation Plan/Habitat Conservation Plan (NCCP)	10%	2	1	3
11	Coordination with other Consultants/Engineers	5%	2	1	3
12	Staff rates consistent with skills and abilities over range of staff on the project	10%	3	1	2
	<b>Weighted Score</b>	<b>30%</b>	1.1	0.7	1.6
<b>B</b>	<b><u>DEMONSTRATION OF PROJECT SCOPING, COST ESTIMATING, AND SCHEDULING</u></b>				
1	Demonstrated Knowledge of Scope of Work	33.33%	1	2	3
2	Demonstrated Knowledge of Cost Estimates	33.33%	3	1	2
3	Demonstrated Knowledge of Project Schedules	33.33%	2	1	3
	<b>Weighted Score</b>	<b>30%</b>	2.0	1.3	2.7
<b>C</b>	<b><u>QUALIFICATION AND EXPERIENCE</u></b>				
1	Principal / Director		Jennifer Jacobus	Rod Harmsworth	Ann Johnson
			Ph.D, 16+ yrs exp	Ph.D, 40+ yrs exp	BA, 31 yrs. exp
		20%	3.00	1.00	2.00
2	Project Manager		Scott Holbrook	Paul Galvin	Amber Heredia
			BA, 28+ yrs exp	MS, 25+ yrs exp	MS, 23 yrs exp
		30%	2.00	1.00	3.00
3	Project Team	30%	3.00	1.00	2.00
4	Firm's Relevance Experience	20%	2.00	1.00	3.00
	<b>Weighted Score</b>	<b>20%</b>	2.5	1.0	2.5
<b>D</b>	<b><u>REFERENCES</u></b>				
	Reference Project 1		Syphon Reservoir Geotech	Signal Peak OCFA Wildfire Camera Tower Project	ILP N Conversion Project
	Score	50%	1	2	3
	Reference Project 2		IRWD-Total Nitrogen/Total Phosphorus Offset Plan	LF Zn B East Reservoir	SDC Reach II O/M Plan HMMP
	Score	50%	3	1	2
	<b>Weighted Score</b>	<b>20%</b>	2.0	1.5	2.5

	<b>COMBINED WEIGHTED SCORE</b>	<b>100%</b>	<b>1.81</b>	<b>1.09</b>	<b>2.28</b>
<b>E</b>	<b>OTHER</b>				
	Multiplier		1.15 - consultant services	None	None
	Sub Consultants		Yes - Alta Enviro	None	Yes - MBC Aquatics
	Exceptions taken to IRWD Std. Contract		None	None	None
	Insurance (General Liability)		Yes	Yes	Yes
	Insurance (Professional)		Yes	Yes	Yes
	<b>Forced Rankings:</b>	<b>(Enter 1, 2, 3 or 4, 1 being best)</b>	<b>2</b>	<b>1</b>	<b>3</b>

FEES

Principal	\$220	\$140	\$257
Project Manager	\$185	\$130	\$193
Managing Biologist/Sr. Biologist/Biologist	160/135/120	\$100/80/60	\$193/137/107
Sub-Consultant	Yes; WQ Alta \$265	n/a	Yes; WQ MBC Aquatics \$192



# EXHIBIT "C"

626 Wilshire Boulevard  
Suite 1100  
Los Angeles, CA 90017  
213.599.4300 phone  
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[www.esassoc.com](http://www.esassoc.com)

January 30, 2020

Fiona M. Sanchez  
Director of Water Resources  
Irvine Ranch Water District  
15600 Sand Canyon Avenue  
Irvine, CA 92618

**Subject: Proposal for On-Call CEQA and NEPA Consultation**

Dear Ms. Sanchez:

Environmental Science Associates (ESA), an employee-owned California Corporation with an office in Irvine and 18 other locations along the nation's West Coast and in Florida, is an award-winning environmental consulting firm with over 50 years of experience guiding projects through the environmental review process. Since 2009, ESA has enjoyed a solid working relationship with the Irvine Ranch Water District (IRWD or District) as a trusted California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA) on-call consultant. We are pleased to present this proposal as a qualified consultant and look forward to continuing our successful work with the District.

Our proposal includes a summary of ESA's experience and capabilities to perform the types of services the District may require over the next four years. Our key strengths that set us apart are summarized below:

- **ESA's focus on CEQA and NEPA compliance for water and wastewater clients is unmatched.** We provide the full array of technical expertise needed to successfully prepare legally defensible environmental documentation for public utilities concerned with water supply and treatment. Our Water Group's core business is providing CEQA/NEPA compliance services to water utilities, and the entire firm is focused on environmental problem solving that expedites project implementation.
- **Experienced on-call environmental consultation providers.** We have extensive experience providing on-call environmental compliance services to public utilities in Southern California, including IRWD since 2009, the Metropolitan Water District of Southern California since 2002, California Department of Water Resources since 2006, and the Los Angeles Department of Water and Power since 2012, and Eastern Municipal Water District since 2013. We know what it takes to manage on-call contracts effectively and successfully.
- **We provide exceptional Senior Managers and a deep bench of Technical Experts.** ESA's senior management team led by Tom Barnes and Jennifer Jacobus, PhD, provides centralized leadership, strategic support, a commitment to quality. Our job is to understand our clients' objectives and to collaborate with them to overcome challenges. Dr. Jacobus will be the primary point of contact and responsible for quality control of all products.
- **We know IRWD.** As an incumbent, ESA will hit the ground running. We have learned the District's specific style, quality commitments, and cost control expectations, and we have established effective relationships with IRWD project managers. This experience brings real value to the District through strategic approaches to project implementation that minimize costs through careful staffing and scoping based on current real-world experience and institutional knowledge. ESA is committed to continuing this partnership with a strong level of excellence.

We have greatly valued our partnership with the District over the past 11+ years, and we appreciate this opportunity to be considered for another contract term. This letter is signed by Tom Barnes, who as Vice President has the authority to represent and contractually bind the firm, and Jennifer Jacobus as the proposed Client/Project Manager. Should you have any questions, please feel free to contact Jennifer at 213.599.4300 or [jjacobus@esassoc.com](mailto:jjacobus@esassoc.com).

Sincerely,

Tom Barnes  
VP, Director, Water Group

Jennifer Jacobus, PhD  
Senior Managing Associate, Water Group



## Introduction

ESA is a leading planning and environmental consulting firm with offices in Irvine and 18 other locations along our nation's West Coast and in Florida. With a commitment to the principles of responsible development and environmental stewardship, we bring over 50 years of integrated experience in all aspects of project planning, regulatory compliance, and environmental analysis and assessment. ESA's mission is to assist clients with advancing sustainability through planning, program development and implementation, and technical analyses that support strategic decision making. Our professionals regularly engage with public-sector clients to act as a single source for well-reasoned and effective solutions.

ESA has provided on-call environmental services to Irvine Ranch Water District (IRWD or District) since 2009; accordingly, the staff selected for this On-Call CEQA and NEPA Consultation contract have an extensive portfolio of experience supporting the District with environmental compliance for small projects. As a foundation of our business, ESA is an expert in the development of California Environmental Quality Act (CEQA)/National Environmental Policy Act (NEPA) compliance documents for municipal utilities, particularly Initial Studies, Addenda, Negative Declarations, Mitigated Negative Declarations (MNDs), and Environmental Impact Reports (EIRs). We also provide a full range of support services, including preparation of stand-alone technical studies and constraints analyses, biological and cultural surveys, water quality assessments, permit compliance, and construction monitoring. Our team is composed of scientists, planners, and engineers encompassing a wide diversity of specialties in the fields of biology, ecology, geology, hydrology, water quality, archaeology, architectural history, paleontology, air quality, greenhouse gases and climate change, noise, traffic management, city planning, and environmental sciences.

## ESA's Commitment to IRWD

- **We are committed to quality assurance and quality control.** We understand that our value is tied directly to the quality of our analysis and documentation. As described in **Section 2**, ESA implements a strict QA/QC Plan. Document reviews for substance, style, errors, and completeness are essential for successful projects.
- **We are committed to effective cost controls and pricing efficiency.** We understand from experience that cost controls are a key feature of our scope and fee preparation process and that costs are related to scope of services, staff, and time needed to accomplish the task. We recognize the need to review scopes of work to ensure that they meet the District's objectives as efficiently as possible. We are committed to proactively recommend places where efficiencies can be gained, including staffing and duration of effort, but also assure corners are not cut where the process demands more robust support.
- **We are committed to close communication with IRWD staff.** We understand from experience the necessity of elevating information to management staff expeditiously. Managing risks through unhesitating communication fosters trust in the team.

## Section 1: Scope of Work

The following scope of work outlines the tasks necessary to provide IRWD with on-call professional services for CEQA and NEPA analysis and compliance as requested in the RFP.

### Task 1: CEQA

We understand IRWD has upcoming small-scale projects that could be implemented over the next four years. IRWD needs a firm that can respond quickly and efficiently to produce cost-effective, high-quality environmental documentation in compliance with CEQA. ESA's Southern California Water Group (ESA Water) specializes in impact assessments for the construction and operation of water infrastructure projects, including wells, pipelines, pump stations, storage tanks, and reservoirs. Providing CEQA compliance in the form of Addenda, Negative Declarations, and MNDs for these types of projects is our primary business. ESA provides full-service environmental support that includes in-house capabilities to perform technical studies, such as air emissions models; greenhouse gas (GHG)

emissions analyses; noise models; biological surveys and monitoring; cultural resources surveys, monitoring, and Tribal consultations, historic architectural assessments; and visual simulations.

ESA's biologists have specialized experience working on projects within Orange County and the **Orange County Natural Community Conservation Plan (NCCP)/HCP**. ESA's biology team is currently assisting IRWD with NCCP coordination for the Syphon Reservoir Improvement Project, meeting with the U.S. Fish and Wildlife Service (USFWS) and California Department of Fish and Wildlife (CDFW) to negotiate a mitigation plan. Also, our Southern California Cultural Resources Group is extremely knowledgeable about **Assembly Bill 52 (AB52)**, which was signed into law in September 2014 and requires lead agencies to consider the effects of projects on Tribal cultural resources and to conduct consultation with federally and non-federally recognized Native American Tribes early in the environmental planning process. ESA will assist the District with implementing this process and will ensure that CEQA/NEPA documents appropriately include the outcome of the AB52 consultation. This could include preparation of draft AB52 consultation letters for submission to Tribes that have requested consultation with IRWD.

## Task 2: NEPA

We understand IRWD needs a firm that provides high-quality environmental documentation that complies with NEPA to satisfy the requirements of potential partner funding entities. ESA regularly produces joint CEQA/NEPA documents and stand-alone CEQA-Plus or NEPA documents. We have recent experience working with staff at the State Water Resources Control Board (SWRCB), Regional Water Quality Control Board, U.S. Bureau of Reclamation (Bureau), and U.S. Environmental Protection Agency (USEPA), to prepare CEQA-Plus and NEPA documents for projects that either will be located on federal lands or will be receiving federal funding. In particular, ESA assisted IRWD with preparation of the Stockdale Integrated Banking Project EIR, which required coordination with the Bureau due to federal funding for the wells on Stockdale West. Our **Project Manager, Dr. Jennifer Jacobus** (see Section 2 for more information), also assisted Palmdale Recycled Water Authority with environmental documentation requirements to complete its State Revolving Fund (SRF) application for its Recycled Water Facilities Plan, for which ESA also prepared the Initial Study/MND. Currently, Jennifer is coordinating with the SWRCB to prepare an Addendum to update the Initial Study/MND since the supporting CEQA document is five years old. In addition, Jennifer and **Principal-in-Charge, Tom Barnes** have experience working with the USEPA to prepare Environmental Assessments (EAs) and Environmental Information Documents (EIDs) to satisfy USEPA's NEPA requirements where funding is the federal nexus. We have good working relationships with staff at federal agencies that are common funding sources, and we understand their specific NEPA compliance requirements. For example, the Bureau typically suggests preparation of a CEQA-Plus document with robust supporting cultural and biological technical studies that meet their requirements for federal cross-cutter consultation, such as State Historic Preservation Office and USFWS consultation.

## Task 3: Staff Rates

The hourly rates for all staff and services resulting from this contract are provided in **Section 5**. Charges for time spent on project management, consultation, meetings, field work, data analysis, report preparation and review, travel time, etc., will be made at the Category Rates set forth in Section 5. Rates for non-labor expenses, such as reimbursable expenses and equipment usage are also provided in Section 5. **Table 2-1** provides the labor categories for key staff that correspond to those provided in Section 5.

## Task 4: Project Task Item Estimates

Our typical on-call services contracts require us to prepare scopes of work, cost estimates and schedules for projects as they arise. Level-of-effort estimates are developed by our project management team in coordination with technical staff as necessary. Staff are assigned based on project requirements. For IRWD, each new project will be established under this On-Call CEQA and NEPA Consultation master contract and IRWD's Purchase Order. Upon request, ESA will prepare and submit a scope of work, schedule, and budget to the District for new projects as they arise within one to two days, depending on the nature of the work. Longer timeframes may be required for larger jobs. The costs



associated with preparing scope/schedule/budget packages will be ESA's responsibility. With District approval of the scope and fee, ESA will begin work on new projects immediately following a notice to proceed.

## Task 5: Team Experience

ESA has over 50 years of experience in the environmental consulting business. We have excellent knowledge of the business locally, statewide, and nationally. Please refer to **Section 2** for summaries of the experience, education, and skills of the key staff on the ESA Team proposed for this On-Call CEQA and NEPA Consultation contract. Additional details about each team member are provided in the resumes attached as **Appendix A**.

## Task 6: Project Coordination

ESA has developed and nurtured a vast network of clients and consultants with which we regularly work and coordinate to accomplish tasks at hand. In accordance with our focus on client satisfaction, ESA will team with other consultants or agencies in order to provide the best technical or regulatory expertise required to meet project objectives and provide services that are in the best interest of our clients. ESA regularly teams with planning firms, engineering firms, and specialty firms offering niche technical expertise, such as traffic/transportation and groundwater services. For example, ESA has successfully teamed in the past with **Fehr & Peers** and **KOA Corporation** to provide traffic studies for a number of recent projects. Notably, Fehr & Peers is ESA's subconsultant for IRWD's Syphon Reservoir Improvement Project and KOA Corporation is our subconsultant on DWR's Lake Perris Emergency Release Facility Project EIR. We often employ **Ninyo & Moore** for geotechnical and environmental hazards/hazardous materials consulting needs.

In addition, Tom and Jennifer regularly coordinate with consultants hired by our clients to prepare technical analyses and engineering design. For example, ESA has repeatedly worked with **Todd Groundwater** as well as **Tom Harder & Associates** to evaluate impacts of groundwater recharge projects (e.g., IRWD's Stockdale Integrated Banking Project EIR, and the Onyx Ranch South Fork Valley Water Project EIR for Rosedale-Rio Bravo Water Storage District). ESA is also coordinating with **HDR** and **Fiona Hutton & Associates** for IRWD's Syphon Reservoir Improvement Project. To facilitate coordination of teams comprised of multiple consultants and agencies, ESA uses regularly scheduled conference call meetings to maintain focus of analyses, provide a forum for information exchange, and maintain compliance with project schedules.

As an integral part of our project management services, we provide senior project strategy consultation with the IRWD management team and regulatory agencies. ESA provides senior experience in consulting with the USFWS, the U.S. Army Corps of Engineers, the Bureau, the USEPA, the CDFW, the Santa Ana Regional Water Quality Control Board, the South Coast Air Quality Management District, and the local cities and county agencies, including Flood Control Districts and the Public Works Departments.

## Task 7: Mitigation Monitoring and Reporting

As part of a typical scope of work for environmental compliance, ESA includes development of the Mitigation Monitoring and Reporting Program (MMRP) as required by CEQA. If requested by IRWD under this contract, ESA will implement the MMRPs associated with projects, including preparation of a reporting program binder designed to track the implementation and completion of each required mitigation measure, management of periodic monitoring activities and required field surveys, and preparation of periodic reports to document ongoing activities and eventual completion of the MMRP. ESA has staff that specialize in construction monitoring in both our Biological Resources & Land Management Group and Cultural Resources Group. ESA Water also has extensive experience with Metropolitan Water District of Southern California (Metropolitan) implementing the MMRPs for various projects as part of an on-call services contract. Examples of our mitigation monitoring experience are included in **Section 2**.

## Task 8: References

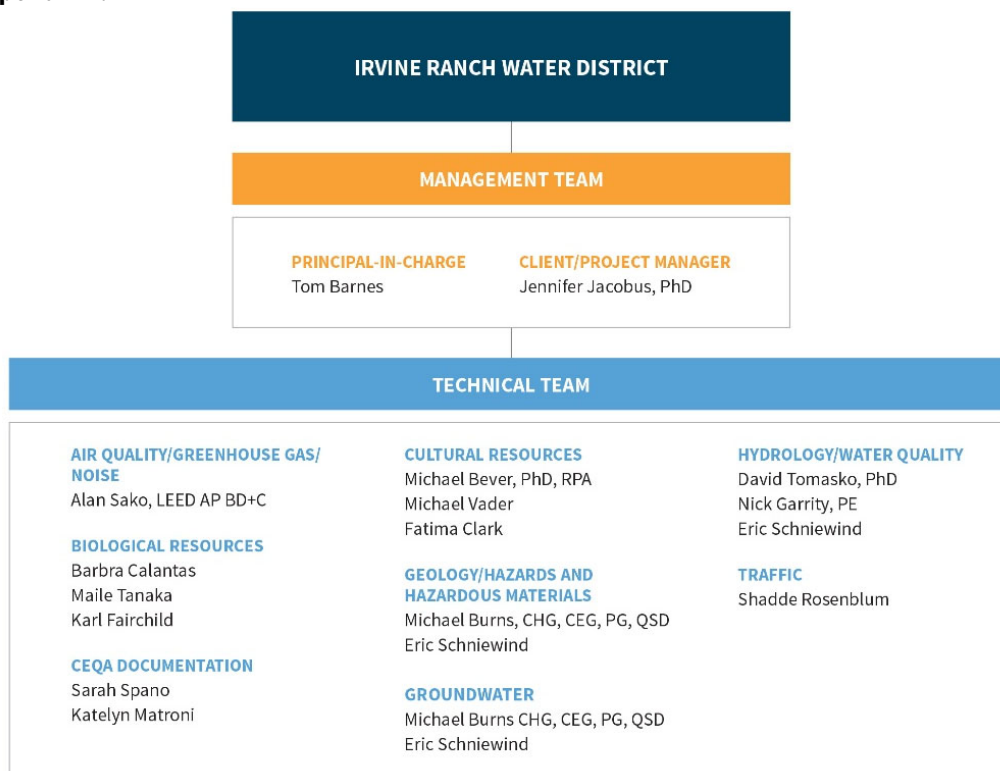
As stated in the RFP, in lieu of reference letters, ESA is providing a summary of work completed for IRWD projects and associated IRWD staff members. The ESA Team, in particular our Management Team of Tom and Jennifer, has completed the projects listed below in **Table 1-1**. This includes work completed under our previous on-call master contracts with IRWD as well as individual project contracts. **Table 1-1** identifies the IRWD staff that were involved in each project. These staff members can speak to the excellence of our work. The projects are further described in **Table 3-1**. Additional references for water agencies other than IRWD are listed in **Table 3-2**.

**Table 1-1: IRWD Projects and Associated Staff Members**

Project	Staff
Syphon Reservoir Geotechnical Investigations Project Initial Study/MND	Paul Weghorst, Fiona Sanchez, Jo Ann Corey, Scott Toland, Beth Beeman
San Diego Creek Water Rights Petition Initial Study/ND	Fiona Sanchez, Jo Ann Corey, Kellie Welch, Ian Swift, Lyndy Lewis
Baker Water Treatment Plant Solar Project Addendum	Paul Weghorst, Fiona Sanchez, Jo Ann Corey, Kellie Welch, Ray Bennett, Richard Mori
Stockdale Integrated Banking Project EIR	Paul Weghorst, Fiona Sanchez, Kellie Welch, Jo Ann Corey
Peters Canyon Water Capture and Reuse Pipeline Project Initial Study/MND and Construction Mitigation Monitoring	Ray Bennett, Jo Ann Corey, Paul Weghorst, Ian Swift, Joe McGehee

## Section 2: Team

Our ESA Team features a select group of professionals assembled to provide IRWD with the most relevant and best combination of expertise. ESA’s depth of staff gives us the ability to match the appropriate skills with the tasks at hand. The key staff identified in the Organizational Chart below would assume primary responsibility for performing the work anticipated for this contract. Biographical information follows the chart. Resumes providing further detail appear in **Appendix A**.



## Management Team

ESA is dedicating to IRWD an experienced senior Management Team from our Southern California Water Group. Tom Barnes and Jennifer Jacobus, PhD, have worked together for more than 15 years providing CEQA and NEPA compliance and permitting services exclusively to water districts, including IRWD. This senior Management Team will oversee and orchestrate ESA's comprehensive team resources as appropriate for each District task.

### Tom Barnes | Principal-in-Charge



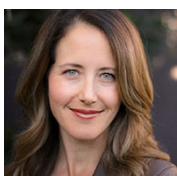
Tom is an ESA Vice President and the Director of ESA's Southern California Water Practice Group focused on providing environmental planning and management services for water and wastewater utilities in the Southern California region. He has over 25 years of experience in CEQA/NEPA analysis, project management, environmental documentation, permit review and facilitation, and data analysis. A proven project manager specializing in water projects, Tom manages on-call multi-year environmental contracts for Southern California agencies, including Metropolitan, Los Angeles

Department of Water and Power (LADWP), Orange County Sanitation District, and California Department of Water Resources (DWR). Tom served as the Project Director for all IRWD projects described in **Table 3-1**, including the current and ongoing **Syphon Reservoir Improvement Project EIR**. In addition, Tom has most recently overseen the completion of the following projects: West Basin Municipal Water District Ocean Water Desalination Project EIR; City of Ventura's Ventura Water Supply Projects EIR; and the San Gabriel River Reduced Discharge EIR for the Los Angeles County Sanitation District.

**Project Availability:** 5% | **Labor Category:** Senior Director III

**Education:** B.A. English, University of California, Berkeley

### Jennifer Jacobus, PhD | Client/Project Manager



Dr. Jennifer Jacobus is a Senior Manager in ESA's Southern California Water Group. She is an accomplished CEQA/NEPA project manager with over 16 years of professional experience and a reputation for customer service and client satisfaction. Jennifer focuses exclusively on water and wastewater clients and projects throughout Southern California. She serves as the Project Manager for ESA's on-call contracts with IRWD, Inland Empire Utilities Agency (IEUA), and Eastern Municipal Water District (EMWD). She works for several other on-call clients, including Metropolitan, DWR, and LADWP.

As a scientist with foundational training in ecology and resource management, Jennifer has a keen ability to communicate with ESA technical staff to ensure appropriate and relevant analyses across all disciplines. She also has experience working with clients' engineering design teams, to understand project features and operational criteria, and transcribes technical specifications into language that is accessible to the general public for CEQA/NEPA documents. Jennifer has acted as Project Manager for all IRWD projects described in **Table 3-1** as well, including the current and ongoing **Syphon Reservoir Improvement Project EIR**. She has also managed a full spectrum of water projects and has recently completed the environmental process for IRWD's **Syphon Reservoir Geotechnical Investigations Project Initial Study/MND** (which included USFWS and CDFW coordination and AB52 consultation), **San Diego Creek Water Rights Petition Initial Study/ND**, and **EIR Addenda for the Michelson WRP Recycled Water Bypass** and the **Baker Water Treatment Plant Solar Project**. In addition, she has recently managed and completed the City of Morro Bay's Water Reclamation Facility CEQA-Plus EIR and subsequent Addendum; and the EMWD San Jacinto Valley Enhanced Recharge and Recovery Program CEQA-Plus PEIR.

**Project Availability:** 30% | **Labor Category:** Director III

**Education:** Ph.D., Resource Ecology & Management, School of Natural Resources & Environment, University of Michigan; M.A., Geography, Boston University; B.A., Economics, Johns Hopkins University

### Management Team Availability and Schedule

IRWD's need for on-call services over the next four years and the schedule for on-call projects will drive the team's dedication to tasks as they are identified. Both Tom and Jennifer will commit time as specific tasks warrant. ESA is committed to meeting project schedule deadlines, and we have recent experience dedicating the time needed to get



the job done on schedule. For example, under a previous on-call contract for IRWD, ESA completed four NOEs for IRWD's Energy Storage Systems Project within three days as requested by IRWD to meet deadlines for consideration and approval by IRWD's Board of Directors.

Jennifer will manage project schedules, including monitoring progress of technical analyses, notifying team members of deadlines ahead of time, organizing conference calls, and managing production staff. Since 2005, Tom and Jennifer have successfully partnered with IRWD to complete larger projects while also completing CEQA/NEPA compliance for small projects as an on-call contract holder (see **Table 3-1** below).

## Project Controls and Invoicing

ESA engages in a proactive approach to tracking, reporting, and controlling costs so that budgets are managed effectively. The first step in managing project costs is working closely with the client to establish a clear and detailed scope, schedule, and budget. The scope of services assures the project is undertaken with maximum efficiency. ESA Water has maintained continuity in leadership and team members for its projects. This continuity assures our clients that each project benefits from the efficiencies of a familiar team and receives the budget supervision it deserves. We conscientiously advise our clients when requested to perform services outside the scope of work to protect our clients from cost overruns.

ESA uses the Deltek electronic time reporting system to monitor and track staff activities for each project and submit monthly invoices in a timely manner. This system allows real-time monitoring of labor costs, which are compiled weekly and used to measure project performance as well as percentage of completion and percentage of budget spent. Our invoices include individual staff hours per project and any reimbursable, permitting, and filing fees. We include a customized progress report with each monthly invoice, indicating activities performed for active tasks during the invoicing period, expected activities for the next monthly period, and any expected challenges or problems. Under this contract, ESA will provide separate invoices for each project, and if requested by IRWD can provide a monthly summary of the overall Purchase Order (PO) status.

## Quality Control / Quality Assurance

All ESA work products are subject to a stringent Quality Assurance/Quality Control (QA/QC) Program. The Program consists of multiple levels of review, each requiring a sign-off from the manager in charge:

1. Independent Technical Peer Review
2. Project Manager Assembly and Review of Work Product
3. Editorial Review of Work Product
4. Project Director Review and Approval

This approach provides for preparation of documents that have received reviews from senior technical leaders for accuracy of content, the overall Project Manager for compliance of task objectives, a technical editor for style and readability, and a Project Director to ensure documents are legally defensible, technically accurate, and tailored to meet client needs.

## Technical Team

**Table 2-1** provides a summary of the key ESA technical staff proposed for this contract. These individuals will be available, as needed, depending on the scope of individual projects. Our proposed Management Team and Technical Team have an extensive history of working together on many CEQA/NEPA projects described later in this section, including IRWD projects. Full team resumes can be found in **Appendix A**.

## Technical Team Availability

The ESA Team understands that the availability of team members is of importance to the District; therefore, only staff with the requisite availability to commit to this On-Call CEQA and NEPA Consultation contract's scope of services are assigned to this project. We have included a generalized time-available percentage, but recognize that the services needed under this contract will be intermittent and varied, requiring periods of 100 percent commitment of key staff until tasks are complete. The work effort for our proposed key staff members will fluctuate as individual projects

move from one phase to another. Based on the schedule and projected staff hours for implementation of the projects under this On-Call CEQA and NEPA Consultation contract, we can confidently commit to the availability and participation by our proposed Technical Team.

In addition, ESA understands any substitution or addition of any key personnel must be requested in writing, along with a statement of qualifications and time commitment. We understand this request must be approved in writing in advance.

**Table 2-1: Summary of ESA Technical Team Staff and Qualifications**

Name	Education	Technical Expertise
<p><b>Barbra Calantas</b> <i>Biological Resources</i> <b>Availability: 10%</b></p> <p>Labor Category: Director III</p>	<p>B.S., Biology, University of San Diego</p>	<ul style="list-style-type: none"> <li>Over 17 years of experience of Endangered Species Act consultation, general and focused wildlife field surveys, QA/QC for data collection procedures, and electronic data collection guidance.</li> <li>Expertise in overseeing as-needed contracts.</li> <li>Prepares a variety of environmental documents, including Section 7 and Section 10 Biological Assessments and biological reports per a variety of local municipalities' document and format guidelines.</li> </ul>
<p><b>Maile Tanaka</b> <i>Biological Resources</i> <b>Availability: 20%</b></p> <p>Labor Category: Senior Associate II</p>	<p>Master of Environmental Science &amp; Management, University of California, Santa Barbara B.S., Organismic Biology, Ecology &amp; Evolution, University of California, Los Angeles</p>	<ul style="list-style-type: none"> <li>Over 14 years of experience surveying for sensitive floral and faunal species, botanical surveys, and jurisdictional delineations in Southern California.</li> <li>Prepares technical reports and impact analyses to support CEQA/NEPA documents.</li> <li>Well-versed with the requirements of the Orange County Natural Community Conservation Plan/Habitat Conservation Plan (NCCP/HCP).</li> </ul>
<p><b>Karl Fairchild</b> <i>Biological Resources</i> <b>Availability: 10%</b></p> <p>Labor Category: Associate II</p>	<p>M.S., Environmental Studies, California State University, Fullerton B.S., Fish and Wildlife, Oregon State University B.A., International Studies, Oregon State University</p>	<ul style="list-style-type: none"> <li>Over 8 years of experience as a field biologist and environmental compliance monitor, including management of sensitive biological resources and monitoring on large infrastructure projects.</li> <li>Can identify most North American birds by sight and sound, skilled at recognizing nesting bird behavioral cues, performed trapping and relocation for sensitive mammals, and has surveyed for rare plants.</li> <li>Holds a current USFWS recovery permit for willow flycatcher surveys and a CDFW Memorandum of Understanding and Scientific Collecting Permit.</li> </ul>
<p><b>Michael Bever, PhD, RPA</b> <i>Cultural Resources and Tribal Cultural Resources</i> <b>Availability: 10%</b></p> <p>Labor Category: Director II</p>	<p>Ph.D., Anthropology, Southern Methodist University M.A., Anthropology, Southern Methodist University B.A., Anthropology, with honors, University of California, Davis</p>	<ul style="list-style-type: none"> <li>Over 25 years of experience in cultural resources management, directing teams of specialists on projects involving a wide breadth of resource types in compliance with federal and state laws and regulations, including AB52 and tribal consultations.</li> <li>Has served as cultural resources task lead on dozens of tasks for on-call contracts throughout Southern California, including projects for water utilities, sewer department, and public works departments.</li> </ul>

Name	Education	Technical Expertise
<p><b>Michael Vader</b> <i>Cultural and Paleontological Resources</i> <b>Availability: 10%</b></p> <p>Labor Category: Senior Associate II</p>	<p>M.A., Applied Archaeology (In Progress), California State University, San Bernardino B.A., Physical Anthropology, University of California, Santa Barbara</p>	<ul style="list-style-type: none"> <li>Over 14 years of experience working on survey, data recovery, and monitoring projects, including a variety of energy and water infrastructure projects throughout California.</li> <li>Specializations include analysis of faunal remains, archaeological/paleontological/environmental compliance monitoring, as well as human osteology and bioarchaeology.</li> </ul>
<p><b>Fatima Clark</b> <i>Archaeological Resources</i> <b>Availability: 10%</b></p> <p>Labor Category: Senior Associate I</p>	<p>B.A., Anthropology, California State University, Fullerton</p>	<ul style="list-style-type: none"> <li>Over 11 years of archaeological experience, including archaeological testing, site recordation, laboratory analysis, pedestrian surveys, records searches, and monitoring for a wide variety of energy, water, and road infrastructure projects.</li> <li>Has written CEQA-level technical reports, EIR and Initial Study sections, archaeological peer reviews, and archaeological monitoring reports.</li> <li>Trained in conducting paleontological surveys and monitoring and has co-authored and managed associated reports.</li> </ul>
<p><b>Shadde Rosenblum</b> <i>Transportation</i> <b>Availability: 10%</b></p> <p>Labor Category: Managing Associate III</p>	<p>Master of Urban and Regional Planning, University of California, Irvine B.A., International and Regional Studies, University of the Pacific</p>	<ul style="list-style-type: none"> <li>Over 20 years of experience providing analytical and technical leadership for a variety of transportation planning projects throughout the United States.</li> <li>Highly skilled in project management and coordination, public outreach activities, the preparation of environmental documents following state and federal regulations, and traffic and transit operations analysis.</li> </ul>
<p><b>David Tomasko, PhD</b> <i>Hydrology, Water Quality</i> <b>Availability: 10%</b></p> <p>Labor Category: Director III</p>	<p>Post-doctoral Fellowship, University of Texas Marine Science Institute PhD, Biology, University of South Florida M.S., Marine Biology, Florida Institute of Technology B.S., Biology, Old Dominion University</p>	<ul style="list-style-type: none"> <li>Over 30 years of experience with water quality assessments and the development of science-based resource management plans.</li> <li>Experience includes ecological assessments, including predictions of likely responses of water quality and natural resources to upgrades in treatment processes for a regional wastewater treatment plant, formation of water quality management plans, and development of pollutant load reduction goals for estuaries and coastal water bodies in the United States and abroad.</li> </ul>
<p><b>Nick Garrity, PE</b> <i>Hydrology, Water Quality</i> <b>Availability: 10%</b></p> <p>Labor Category: Director III</p>	<p>M.S., Civil and Environmental Engineering, University of California, Berkeley B.S., Geology-Physics/Mathematics, Brown University</p>	<ul style="list-style-type: none"> <li>Over 20 years of experience working with river, estuarine, and coastal systems, including hydrodynamic modeling, flood hazard studies, restoration planning and design, geomorphic assessments, environmental impact assessments, and post-project monitoring and evaluation.</li> <li>Has managed the planning and design of multiple large-scale wetland management projects and has advanced innovative approaches to flood hazard analyses and wetland enhancement.</li> </ul>

Name	Education	Technical Expertise
<p><b>Eric Schniewind</b> <i>Geology, Hydrology, Hazards and Hazardous Materials</i> <b>Availability: 20%</b></p> <p>Labor Category: Managing Associate II</p>	<p>B.A., Geological Sciences, University of California, Santa Barbara</p>	<ul style="list-style-type: none"> <li>Over 25 years of experience in geotechnical engineering, soil, and groundwater contamination investigations, environmental remediation planning and implementation, and Phase I site assessments.</li> <li>Responsibilities include providing geological, geotechnical, and hydrogeological technical support for CEQA/NEPA documents.</li> </ul>
<p><b>Michael Burns, CHG, CEG, PG</b> <i>Hazards and Hazardous Materials, Groundwater, Geology</i> <b>Availability: 10%</b></p> <p>Labor Category: Director II</p>	<p>B.S., Geology, San Jose State University</p>	<ul style="list-style-type: none"> <li>Over 30 years of experience in the environmental and geological sciences including CEQA/NEPA assessment and impact analyses.</li> <li>Expert services in planning and permitting, site characterization, Superfund sites, Remedial Investigation/Feasibility Studies, waste management, litigation support, property assessments, development and redevelopment, soil and groundwater remediation, and water rights.</li> </ul>
<p><b>Sarah Spano</b> <i>CEQA/NEPA</i> <b>Availability: 40%</b></p> <p>Labor Category: Managing Associate II</p>	<p>B.A., Anthropology/ Archaeology, New York University (Magna Cum Laude)</p>	<ul style="list-style-type: none"> <li>Over 8 years of experience in ESA’s Water Group preparing CEQA/NEPA analysis and documentation specifically for water and wastewater projects.</li> <li>Provides technical evaluations of water projects and their impact on aesthetics, public services, and utilities, as well as cumulative impacts, growth, and alternatives analysis.</li> </ul>
<p><b>Katelyn Matroni</b> <i>CEQA/NEPA</i> <b>Availability: 40%</b></p> <p>Labor Category:</p>	<p>B.S., Environmental Management &amp; Protection, Cal Poly San Luis Obispo</p>	<ul style="list-style-type: none"> <li>Over 5 years of experience assisting with preparation of environmental analysis documentation and permits, ensuring compliance at the federal, state, and local level for water, wastewater, and recycled water infrastructure projects, and facilities master plans.</li> <li>Prepares impact analyses for aesthetics, agricultural and forestry resources, land use and planning, public services, and utilities.</li> </ul>
<p><b>Alan Sako, LEED AP BD+C</b> <i>Air Quality, GHG and Noise</i> <b>Availability: 20%</b></p> <p>Labor Category: Managing Associate II</p>	<p>B.S., Atmospheric, Oceanic &amp; Environmental Science, University of California, Los Angeles</p>	<ul style="list-style-type: none"> <li>Over 18 years of experience in preparing and managing air quality and climate change analyses, performing ambient air quality impact analyses and health risk assessments (HRAs) for CEQA and NEPA documents, and providing air quality permitting and compliance support.</li> <li>Experience with water infrastructure projects including facility master plans and projects spanning multiple city and county boundaries.</li> <li>Cross-trained in acoustical/noise modeling, and preparing hazardous materials business plans (HMBPs), risk management plans (RMPs) for hazardous substances, and offsite consequence analyses (OCAs) for hazardous substances.</li> </ul>

### Section 3: Project Experience

The table below shows a sampling of ESA’s relevant and similar experience with CEQA/NEPA analysis and documentation for water/wastewater projects, including our recent experience with on-call services contracts. ESA’s breadth of project experience provides IRWD with the best combination of regional perspective and local understanding for water supply and infrastructure issues. References for select contracts and projects are included in **Table 3-2**.

**Table 3-1: Summary of Relevant Experience**

Relevant Projects	Services Provided
<b>On-Call / As-Needed Contracts</b>	
<p><b>Irvine Ranch Water District (IRWD) General Environmental Services On-Call CEQA/ NEPA.</b>                      ESA has been providing on-call CEQA/NEPA services since 2009 for IRWD for an array of small projects. Our firm has become a trusted advisor to IRWD for environmental compliance issues; our understanding of their agency culture results in high client satisfaction; we understand their need for reliability, responsiveness, and transparency to ensure projects are completed within established budgets and schedules and to meet the expectations of its Board of Directors.                      Notable projects completed as part of on-call services:</p> <ul style="list-style-type: none"> <li>• San Diego Creek Water Rights Petition Initial Study/ND</li> <li>• Michelson WRP Recycled Water Bypass (Phase 2/3) EIR Addendum No. 4</li> <li>• Energy Storage Systems Project Notices of Exemption (NOEs)</li> <li>• Peters Canyon Channel Pipeline Biological/Cultural Construction Monitoring</li> <li>• Wells 21 &amp; 22/Well TL-1 Project MND/Initial Study/EA and Addendum No.1</li> <li>• Baker Water Treatment Plant Solar Project EIR Addendum</li> </ul> <p><i>Financial Size: Cumulative Contract Ceiling of \$350,000</i></p>	<ul style="list-style-type: none"> <li>• CEQA/NEPA</li> <li>• On-Call Services</li> <li>• Biological and Cultural Surveys</li> <li>• MMRP Implementation</li> <li>• Construction Monitoring</li> <li>• Section 106 Compliance</li> <li>• Hydrological Modeling</li> </ul>
<p><b>Eastern Municipal Water District (EMWD) As-Needed Environmental Services.</b> Since 2013, ESA has provided EMWD with as-needed environmental services, including CEQA/NEPA documentation; technical studies for biological and cultural resources; air quality and climate change; noise and traffic; aesthetics; and Riverside County MSHCP compliance. Recent projects include:</p> <ul style="list-style-type: none"> <li>• San Jacinto Valley Enhanced Recharge and Recovery Program (ERRP) PEIR</li> <li>• Goetz Road Water Storage Tank EIR</li> <li>• San Jacinto Valley Raw Water Pipeline Initial Study/MND</li> <li>• Biological and cultural resources surveys and construction monitoring associated with ERRP implementation</li> </ul> <p><i>Financial Size: \$300,000+</i></p>	<ul style="list-style-type: none"> <li>• CEQA/NEPA</li> <li>• On-Call Services</li> <li>• Biological and Cultural Services</li> <li>• Bureau Coordination</li> <li>• Construction Monitoring</li> <li>• MMRP Implementation</li> </ul>
<p><b>California Department of Water Resources (DWR) On-Call Environmental Planning Services.</b>                      ESA has been the provider of on-call Environmental Planning Services for the DWR Southern Division since 2006. ESA is preparing environmental analyses, documentation, and permits for various projects along the State Water Project and performing construction monitoring. Major projects include:</p> <ul style="list-style-type: none"> <li>• Castaic Dam High Intake Tower Access Bridge Retrofit Project Initial Study/MND</li> <li>• San Joaquin Field Division Liner Raise and Instrumentation Project Initial Study/MND</li> <li>• Salton Sea Bruchard Road Dust Suppression Project Addendum</li> <li>• Lake Perris Seepage Recovery Project EIR</li> <li>• Perris Dam Remediation Program EIR Permitting</li> <li>• Perris Dam Emergency Release Facility Project Supplemental EIR</li> </ul> <p><i>Financial Size: \$700,000+</i></p>	<ul style="list-style-type: none"> <li>• CEQA/NEPA</li> <li>• On-Call Services</li> <li>• Biological and Cultural Services</li> <li>• Construction Monitoring</li> <li>• USFWS/CDFW Consultation</li> </ul>
<p><b>Los Angeles Department of Water and Power (LADWP) On-Call Environmental Services.</b>                      Since 2011, ESA has been supporting the LADWP by providing a full array of environmental services to the Office of Environmental Planning and Assessment. The following is a sample of CEQA and construction monitoring projects under ESA's latest three-year contract:</p> <ul style="list-style-type: none"> <li>• East Hollywood District Yard Project Initial Study/MND</li> <li>• Forest Lawn Recycled Water Tank Project Initial Study/MND</li> <li>• Stormwater Capture Program Initial Study/MND</li> <li>• River Supply Conduit Construction Monitoring</li> <li>• City Trunk Line South Project EIR Construction Monitoring</li> <li>• Foothill Trunk Line Unit II EIR Construction Monitoring</li> <li>• Owens Lake Master Project EIR</li> <li>• Addendum to the Great Basin Unified Air Pollution Control District's 2008 Owens Valley PM10 State Implementation Plan</li> </ul> <p><i>Financial Size: \$900,000+</i></p>	<ul style="list-style-type: none"> <li>• CEQA</li> <li>• On-Call Services</li> <li>• Technical Studies</li> <li>• Construction Monitoring</li> <li>• MMRP Implementation</li> </ul>

**Table 3-1: Summary of Relevant Experience**

Relevant Projects	Services Provided
<p><b>Metropolitan Water District As-Needed Environmental Planning Services.</b> ESA has been providing on-call environmental services to Metropolitan since 2002, including CEQA review, permitting, and specialized biological and cultural resources surveys. We have provided field surveying and mitigation monitoring compliance services, including regular monitoring of construction projects at the Weymouth Filtration Plant. Much of ESA's work required immediate response in a prompt and resourceful manner to complete field monitoring activities. Major projects include:</p> <ul style="list-style-type: none"> <li>• Weymouth Filtration Plant Ozonation Facilities and Site Improvements Program FEIR and Addendums 1, 4, and 5</li> <li>• Weymouth Filtration Plant General Construction Monitoring</li> <li>• Colorado River Aqueduct Conveyance Reliability Program MND and Addenda</li> <li>• Jensen Solids Dewatering and Lagoons FEIR and Addenda</li> </ul> <p><i>Financial Size: \$600,000</i></p>	<ul style="list-style-type: none"> <li>• CEQA</li> <li>• Technical Studies</li> <li>• On-Call Services</li> <li>• MMRP Implementation</li> <li>• Construction Monitoring</li> <li>• Biological and Cultural Surveys</li> </ul>
<p><b>Inland Empire Utilities Agency (IEUA), On-Call Environmental Services.</b> ESA has been providing on-call environmental services for IEUA since 2012, including for CEQA/NEPA compliance documentation; regulatory permitting; and technical services such as biological assessments, jurisdictional delineations, stormwater pollution prevention plans (SWPPPs), cultural resource surveys, and mitigation monitoring. ESA has provided a diversity of services through over 15 task orders initiated under this contract to date, including:</p> <ul style="list-style-type: none"> <li>• Facilities Master Plans PEIR</li> <li>• Turner Basins SWPPP and Implementation</li> <li>• Prado Basin Monitoring Wells Preconstruction surveys</li> <li>• Zone 930 Burrowing Owl (BUOW) Survey</li> <li>• Wineville Jurisdictional Determination</li> </ul> <p><i>Financial Size: \$400,000</i></p>	<ul style="list-style-type: none"> <li>• CEQA/NEPA</li> <li>• On-Call Services</li> <li>• Construction Monitoring</li> <li>• USACE Coordination</li> <li>• CWA Section 404 Application</li> <li>• Jurisdictional Determination</li> <li>• Biological Surveys</li> </ul>
Individual Projects	
<p><b>IRWD Syphon Reservoir Geotechnical Investigations Project Initial Study/MND and Syphon Reservoir Improvement Project EIR.</b> IRWD proposes to enlarge the Syphon Reservoir and Dam, to increase its recycled water storage capacity from 500 to 5,000 acre-feet. This will allow IRWD to maximize use of its recycled water instead of discharging it into the ocean while reducing the District's dependence on imported water supplies during the summer months. IRWD adopted the Final Initial Study/MND for the Geotechnical Investigations in June 2019. ESA provided extensive biological surveys and cultural surveys in support of the Initial Study/MND; assisted IRWD with AB52 process for Tribal consultation; facilitated coordination with USFWS and CDFW for mitigation associated with the Orange County NCCP and Grant Deed restrictions for the site; and secured a Jurisdictional Determination from the U.S. Army Corps of Engineers and Streambed Alteration Agreement from CDFW in less than one year. ESA is currently in the preliminary stages of preparing the EIR for the Reservoir Improvement Project. <i>Financial Size: \$900,000+</i></p>	<ul style="list-style-type: none"> <li>• CEQA</li> <li>• Biological Surveys</li> <li>• Cultural Surveys</li> <li>• AB52</li> <li>• Mitigation Monitoring</li> <li>• USFWS/CDFW Coordination and Permitting</li> </ul>
<p><b>IRWD Peters Canyon Channel Water Capture and Reuse Pipeline Project IS/MND.</b> IRWD together with the Cities of Tustin and Irvine, Orange County Flood Control District, and Caltrans developed a cost-effective solution for the disposal of Peters Canyon Channel flows that contain high nitrate and selenium concentrations. The Project diverts high selenium nuisance surface and groundwater flows to OCS D for treatment and reuse. ESA provided a Reduced Discharge Technical Study to document project impacts to flow and water quality downstream from the proposed diversion points, including impacts within Peters Canyon Channel, San Diego Creek, and IRWD's San Joaquin Marsh. ESA also provided Cultural Resources and Biological Resources Technical Reports to support direct and indirect impacts of the Project, including impacts associated with changes in flow and water quality downstream from proposed diversion points. ESA prepared an Initial Study/Mitigated Negative Declaration (IS/MND) for CEQA compliance; the IS/MND was certified and the Project approved by the IRWD Board of Directors in April 2015. Subsequently, ESA's staff provided construction monitoring services in accordance with the biological and cultural mitigation measures in the MMRP. <i>Financial Size: \$235,000</i></p>	<ul style="list-style-type: none"> <li>• CEQA</li> <li>• Biological Surveys</li> <li>• Cultural Surveys</li> <li>• Hydrologic Analysis</li> <li>• Reduced Discharge Technical Report</li> <li>• Agency Coordination</li> <li>• Mitigation Monitoring/MMRP</li> </ul>

**Table 3-1: Summary of Relevant Experience**

Relevant Projects	Services Provided
<p><b>IRWD Stockdale Integrated Banking Project EIR.</b> ESA prepared the EIR for the Stockdale Integrated Banking Project, to be located outside of Bakersfield in western Kern County. IRWD together with Rosedale-Rio Bravo Water Storage District will develop over 500 acres of land with groundwater recharge and extraction facilities. The project will be integrated into Rosedale’s existing Conjunctive Use Program and will provide Rosedale with additional recharge and storage capability and operational flexibility. The project will allow IRWD to store water for supply reliability and redundancy. The Final EIR was certified in December 2015. <i>Financial Size: \$260,000+</i></p>	<ul style="list-style-type: none"> <li>• CEQA</li> <li>• Biological Surveys and Report</li> <li>• Cultural Surveys and Report</li> <li>• Air Emissions Modeling</li> </ul>
<p><b>IRWD Biosolids Handling and Energy Recovery Facilities Project Supplemental EIR (SEIR).</b> IRWD is implementing solids handling facilities at the Michelson Water Recycling Plant (WRP). The project provides a complete biosolids process, biogas management, and energy generation system for the Michelson and Los Alisos WRPs. The Final SEIR was certified in 2012. ESA also provided cultural mitigation/construction monitoring services. <i>Financial Size: \$300,000+</i></p>	<ul style="list-style-type: none"> <li>• CEQA</li> <li>• Construction Monitoring</li> </ul>
<p><b>IRWD Baker Water Treatment Plant Project EIR and Addenda.</b> The Baker WTP Project increases water supply reliability in southern Orange County by creating redundancy of treatment system capacity and distribution infrastructure for potable water in the event of facility outages due to routine maintenance or emergencies. The project upgraded the existing Baker Filtration Plant in the City of Lake Forest, constructed additional transmission pipelines, and installed a new pump station, all within the Central Subarea of the Orange County NCCP. Key issues included noise, aesthetics, and traffic due to residential land uses surrounding the project site. The Final EIR was successfully certified in 2011. ESA also prepared subsequent Addenda to the EIR for modifications that included pipeline realignments, addition of onsite residual handling and processing facilities, and installation of solar panels. <i>Financial Size: \$200,000+</i></p>	<ul style="list-style-type: none"> <li>• CEQA</li> <li>• Technical Studies</li> <li>• Cultural Survey and Report</li> <li>• Biological Survey and Report</li> </ul>
<p><b>EMWD San Jacinto Raw Water Pipeline Project Initial Study/MND.</b> ESA prepared the Initial Study/MND evaluating an initial phase of the San Jacinto Valley Groundwater Banking - Enhanced Recharge and Recovery Program (ERRP). ESA prepared the Program EIR for the ERRP, which was certified in June 2018. The IS/MND tiered from the Program EIR and was adopted in June 2019. The Pipeline Project provides a dedicated raw water pipeline to convey water to existing and future recharge ponds along the San Jacinto River. ESA conducted biological and archaeological resources surveys for the project to support the IS/MND and is currently providing construction monitoring at ERRP recharge ponds. <i>Financial Size: \$77,000+</i></p>	<ul style="list-style-type: none"> <li>• CEQA</li> <li>• Biological and Cultural Services</li> <li>• Air Emissions Modeling</li> <li>• Noise Emissions</li> </ul>
<p><b>EMWD Goetz Road Water Storage Tank EIR.</b> ESA is preparing the Draft EIR, which includes technical studies for biological and cultural resources, as well as visual simulations and a shade/shadow analysis. The project involves construction and operation of an 8-million-gallon potable water storage tank, a chlorination disinfection facility, and an associated transmission pipeline, in order to address a number of deficiencies in EMWD’s 1627 pressure zone. Key issues included noise and aesthetics. ESA conducted biological, archaeological, and paleontological surveys. <i>Financial Size: \$200,000+</i></p>	<ul style="list-style-type: none"> <li>• CEQA</li> <li>• Biological and Cultural Services</li> <li>• Visual Simulations</li> <li>• Shade/Shadow</li> <li>• Air Emissions Modeling</li> <li>• Noise Emissions</li> </ul>
<p><b>LADWP Forest Lawn Recycled Water Tank Project IS/MND.</b> ESA is preparing the Initial Study/MND for the project which includes installation of a new recycled water storage tank and associated conveyance pipeline. The project would provide peak summer recycled water supply to portions of Glendale and Los Angeles. ESA is conducting biological and cultural resources surveys and evaluations for the project. <i>Financial Size: \$140,000+</i></p>	<ul style="list-style-type: none"> <li>• CEQA</li> <li>• Biological and Cultural Services</li> </ul>
<p><b>DWR Castaic Dam High Intake Tower Access Bridge Retrofit Project IS/MND.</b> ESA is preparing the Initial Study/MND to seismically retrofit the high tower access bridge at Castaic Lake, the terminal reservoir of the State Water Project’s West Branch. The project would retrofit the access bridge to make it seismically capable of withstanding a potential 7.3 magnitude earthquake. The project involves significant drawdown of the lake for construction activities. ESA conducted biological and cultural resources surveys to support preparation of the Initial Study/MND. <i>Financial Size: \$40,000+</i></p>	<ul style="list-style-type: none"> <li>• CEQA</li> <li>• Biological and Cultural Services</li> <li>• Air Emissions Modeling</li> <li>• Noise Emissions</li> </ul>

**Table 3-2: Client References**

References	ESA Projects
<p><b>Gina Radieve, Senior Environmental Scientist</b> California Department of Water Resources, Department of Engineering P: 916-651-2458</p>	<ul style="list-style-type: none"> <li>• Castaic Dam High Intake Tower Access Bridge Retrofit Project Initial Study/MND</li> <li>• San Joaquin Field Division Liner Raise and Instrumentation Project Initial Study/MND</li> <li>• Salton Sea Bruchard Road Dust Suppression Project Addendum</li> <li>• Lake Perris Seepage Recovery Project EIR</li> <li>• Perris Dam Remediation Program EIR Permitting</li> <li>• Perris Dam Emergency Release Facility Project SEIR</li> </ul>
<p><b>Joseph Broadhead, Principal Water Resource Specialist</b>, Eastern Municipal Water District P: 951-928-3777 ext. 4545</p>	<ul style="list-style-type: none"> <li>• San Jacinto Valley ERRP PEIR</li> <li>• Goetz Road Water Storage Tank EIR</li> <li>• San Jacinto Valley Raw Water Pipeline Initial Study/MND</li> <li>• Biological and cultural resources surveys and construction monitoring associated with ERRP implementation</li> </ul>
<p><b>Nadia Parker, Supervisor – Environmental Planning &amp; Assessment</b> Los Angeles Department of Water and Power P: 213-367-1745</p>	<ul style="list-style-type: none"> <li>• East Hollywood District Yard Project Initial Study/MND</li> <li>• Forest Lawn Recycled Water Tank Project Initial Study/MND</li> <li>• Stormwater Capture Program Initial Study/MND</li> <li>• River Supply Conduit Construction Monitoring</li> <li>• City Trunk Line South Project EIR Construction Monitoring</li> <li>• Foothill Trunk Line Unit II EIR Construction Monitoring</li> <li>• Owens Lake Master Project EIR</li> <li>• Addendum to Great Basin Unified Air Pollution Control District’s 2008 Owens Valley PM10 State Implementation Plan</li> </ul>
<p><b>Pietro Cambioso, Deputy Manager of Planning</b> Inland Empire Utilities Agency P: 909-993-1600</p>	<ul style="list-style-type: none"> <li>• Facilities Master Plans PEIR</li> <li>• Turner Basins SWPPP and Implementation</li> <li>• Prado Basin Monitoring Wells Preconstruction surveys</li> <li>• Zone 930 Burrowing Owl (BUOW) Survey</li> <li>• Wineville Jurisdictional Determination</li> </ul>

## Section 4: Schedule

ESA understands the schedule required for CEQA compliance depends on the complexity of the project, the completeness of the project objectives and description, and the level of controversy associated with project components. With clear stakeholder support and a completely developed project description, a Negative Declaration requires approximately four months to prepare, circulate for public review, and certify. An Addendum to an EIR typically can be completed within one month or less. When a project requires intensive technical studies or neighborhood outreach, the schedule can be extended by several months. NEPA documents also can be prepared efficiently depending on the completeness of analysis and complexity of the project. However, federal approval of EAs generally adds at least several months to the CEQA schedule due to the additional agency coordination. For this reason, we typically work with the Bureau to negotiate preparation of a CEQA-Plus document instead of a joint CEQA/NEPA document when Bureau funding is the federal nexus. We have found that after completion of a CEQA-Plus document, the process of coordination with the SWRCB for SRF funding can add several months to the project schedule, depending on the level of effort needed to comply with Section 106 of the National Historic Preservation Act.

ESA specializes in on-call services contracts that require a deep bench of technical capabilities to be available at any time. We will get the right person on the job whenever needed. After reviewing our firm’s current and planned workload, we can assure IRWD that the ESA team has the availability and experience to provide on-call services to the District.



## Section 5: Fee Schedule

Charges will be made at the Category Rates set forth below for time spent on project management, consultation, meetings, field work, technical analyses, report preparation and review, travel time, etc. From time to time, ESA retains outside professional and technical labor on a temporary basis to meet peak workload demands. Such contract labor may be charged at regular Personnel Category Rates.

### Personnel Category Rates

The range of rates shown below for each staff category reflects ESA staff qualifications, expertise and experience levels. These rates allow our project managers to assemble the best project teams to meet the unique project requirements and client expectations for each opportunity. The Labor Categories listed below correspond to those included for each member of the Management Team and Technical Team in **Section 2** above.

### Environmental Science Associates | 2020 Schedule of Fees

Labor Category	Level I	Level II	Level III
Senior Director	265	280	300
Director	210	225	240
Managing Associate	175	190	205
Senior Associate	150	160	170
Associate	105	125	135
Project Technicians	85	100	120

### Expenses

- A. Travel Expenses
  1. Transportation
    - a. Company vehicle – IRS mileage reimbursement rate
    - b. Common carrier or car rental – actual multiplied by 1.15
  2. Lodging, meals and related travel expenses – direct expenses multiplied by 1.15
- B. Communications Fee  
In-house costs for phone, e-mail, fax, regular postage, walk-up copier, and records retention – project labor charges multiplied by 3%
- C. Printing/Reproduction Rates

Item	Rate/page
8 1/2 x 11 b/w	\$0.05
11 x 17 b/w	\$0.10
8 1/2 x 11 color	\$1.00
11 x 17 color	\$2.00
Covers	\$0.50
Binding	\$1.00
HP Plotter	\$25.00
CD	\$10.00
Digital Photography	\$20.00 (up to 50 images)

## Section 6: Joint Venture

ESA does not propose to employ a joint venture during the course of this contract. Typically, ESA's in-house staff has capabilities that are comprehensive and sufficient for completing environmental compliance documents for small projects. However, ESA routinely engages in subcontract arrangements when technical specialties that are beyond our in-house capabilities are required and appropriate for a project. We have worked with many firms in the area, including traffic engineering firms, geotechnical firms, local cultural resources specialists, as well as specialized biological resource personnel. We are open to a variety of teaming arrangements where it suits IRWD and the particular project. As mentioned previously, ESA has ongoing working relationships with firms such as Fehr & Peers and KOA Corporation for traffic studies and Ninyo & Moore for geotechnical and environmental hazards/hazardous materials, and Todd Groundwater and Tom Harder for groundwater services. If such specialized skills are needed for a particular task, ESA will work with IRWD to identify appropriate subconsultants.

## Section 7: Conflict of Interest

To the best of our knowledge, ESA does not have existing personal, financial, and/or organization conflicts of interest prohibited by law.

## Section 8: Insurance Requirements

If selected to provide the services under this contract, ESA is prepared to furnish IRWD with acceptable evidence showing that the insurance coverage required has been procured. ESA has insurance coverage of \$1 million each for general liability, property damage, worker's compensation, automobile, and professional liability. We will provide proof of insurance through our carrier, Woodruff-Sawyer & Co., upon the awarding of this contract. A copy of our certificate can be found in **Appendix B**.

## Section 9: Sample Contract

ESA has reviewed the copy of IRWD's professional service agreement, attached to the RFP and we have no modifications to the standard terms and conditions.





# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

11/12/2019

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

<b>PRODUCER</b> License # 0E67768 <b>IOA Insurance Services</b> 4370 La Jolla Village Drive Suite 600 San Diego, CA 92122	<b>CONTACT NAME:</b> Ali Smith <b>PHONE (A/C, No, Ext):</b> (619) 788-5795 50206 <b>FAX (A/C, No):</b> (619) 574-6288 <b>E-MAIL ADDRESS:</b> Ali.Smith@ioausa.com
<b>INSURER(S) AFFORDING COVERAGE</b>	
<b>INSURED</b>	<b>NAIC #</b>
<b>Environmental Science Associates</b> 550 Kearny St., Suite 800 San Francisco, CA 94108	<b>INSURER A :</b> RLI Insurance Company <b>13056</b> <b>INSURER B :</b> Mt Hawley Insurance Company <b>37974</b> <b>INSURER C :</b> Crum & Forster Insurance Company <b>42471</b> <b>INSURER D :</b> <b>INSURER E :</b> <b>INSURER F :</b>

**COVERAGES****CERTIFICATE NUMBER:****REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
<b>A</b>	<input checked="" type="checkbox"/> <b>COMMERCIAL GENERAL LIABILITY</b> <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> <b>Cont Liab/Sev of Int</b>  GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC OTHER:	<b>X</b>	<b>X</b>	<b>PSB0007416</b>	<b>12/1/2019</b>	<b>12/1/2020</b>	EACH OCCURRENCE \$ <b>2,000,000</b> DAMAGE TO RENTED PREMISES (Ea occurrence) \$ <b>1,000,000</b> MED EXP (Any one person) \$ <b>10,000</b> PERSONAL & ADV INJURY \$ <b>2,000,000</b> GENERAL AGGREGATE \$ <b>4,000,000</b> PRODUCTS - COMP/OP AGG \$ <b>4,000,000</b> <b>Deductible</b> \$ <b>0</b>
<b>A</b>	<input checked="" type="checkbox"/> <b>AUTOMOBILE LIABILITY</b> <input checked="" type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS ONLY Comp.: \$1,000 <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY Coll.: \$1,000	<b>X</b>	<b>X</b>	<b>PSA0002468</b>	<b>12/1/2019</b>	<b>12/1/2020</b>	COMBINED SINGLE LIMIT (Ea accident) \$ <b>1,000,000</b> BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
<b>B</b>	<input checked="" type="checkbox"/> <b>UMBRELLA LIAB</b> <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ <b>10,000</b>			<b>PSE0003196</b>	<b>12/1/2019</b>	<b>12/1/2020</b>	EACH OCCURRENCE \$ <b>10,000,000</b> AGGREGATE \$ <b>10,000,000</b> \$
<b>A</b>	<input checked="" type="checkbox"/> <b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) <input type="checkbox"/> Y/N If yes, describe under DESCRIPTION OF OPERATIONS below	<b>N/A</b>	<b>X</b>	<b>PSW0004135</b>	<b>12/1/2019</b>	<b>12/1/2020</b>	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$ <b>1,000,000</b> E.L. DISEASE - EA EMPLOYEE \$ <b>1,000,000</b> E.L. DISEASE - POLICY LIMIT \$ <b>1,000,000</b>
<b>C</b>	<b>Prof Liab/Ded. \$50K</b>			<b>PKC108908</b>	<b>9/17/2019</b>	<b>12/1/2020</b>	<b>Per Claim/Aggregate</b>
<b>C</b>	<b>Poll Liab/Ded. \$50K</b>			<b>PKC108908</b>	<b>9/17/2019</b>	<b>12/1/2020</b>	<b>Occurrence/Aggregate</b>

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

**Proof of Insurance for Environmental Science Associates**  
**Issued for Evidence of Insurance Purposes Only**

**CERTIFICATE HOLDER****CANCELLATION**

Sample Certificate  
 c/o Environmental Science  
 Associates 550 Kearny Street,  
 Suite 800  
 San Francisco, CA 94108

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

*T. Kelly Howell*

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# EXHIBIT "D"

CARLSBAD  
 FRESNO  
 IRVINE  
 LOS ANGELES  
 PALM SPRINGS  
 POINT RICHMOND  
 RIVERSIDE  
 ROSEVILLE  
 SAN LUIS OBISPO

January 30, 2020

Fiona Sanchez, Director of Water Resources  
 Irvine Ranch Water District  
 15600 Sand Canyon Avenue  
 Irvine, CA 92618

Subject: Proposal for On-Call CEQA and NEPA Consultation

Dear Ms. Sanchez

LSA Associates, Inc. (LSA) is pleased to provide this proposal for on-call environmental-consulting services for Irvine Ranch Water District (IRWD) for compliance with the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA).

LSA is a full-service, multidiscipline environmental, transportation and project management professional-services group with headquarters in Irvine, California, and additional offices located throughout the State. Preparation Review of CEQA (including CEQA+) and NEPA documents has been a core service at LSA since the founding of the firm in 1976. Over the past 44 years, LSA has expanded its services to include virtually all environmental planning and permitting services, making the firm a "one-stop" choice for CEQA and NEPA documentation. Today, the firm employs approximately 200 environmental professionals in nine offices in California, including specialists in CEQA and NEPA documentation, biological resources, architectural and historic resources, archaeology, paleontology, air quality, greenhouse gas emissions, noise, and transportation. LSA has a successful track record of preparing environmental documents that are technically sound and legally defensible, as well as innovative and solution-oriented. LSA will provide environmental-planning expertise to IRWD that reflects the company's extensive experience with similar projects, including the following:

- Irvine Ranch Water District
- Orange County Water District
- Metropolitan Water District
- Moulton Niguel Water District
- Rancho California Water District
- South Coast Water District
- Coachella Valley Water District
- San Diego Water District
- Quail County Water District
- Kern/Tulare Water District
- Cawelo Water District
- West Kern Water District
- West Valley Water District
- Tehachapi-Cummings County Water District
- Contra Costa Water District
- Joshua Basin Water District
- North Marin Water District

It is important to note that LSA is a 100 percent employee-owned corporation. All LSA employees own stock and are personally vested in the firm's commitment to providing quality service. As a result, clients know they are in the hands of a stable company that will follow through on its commitments.

A hallmark of LSA's approach is to use senior-level staff who remain assigned and committed to a project for the full term of the project. LSA's Principals and staff are trained as planners and environmental analysts, bringing an enhanced set of skills to environmental review. LSA's combined expertise allows the firm to refine projects where possible, develop mitigation measures that address identified impacts when necessary, and identify alternatives that will satisfy CEQA and NEPA requirements and reduce potential project impacts. Further, LSA is proactive in communication and problem solving and is adept at identifying problems as they emerge and developing alternative approaches and solutions in consultation with clients. LSA's commitment of senior-level staff, its depth of expertise, and its emphasis on communication with lead agencies have earned the company a reputation for providing thorough, credible, and objective reports.

LSA has assembled a team of professionals who are highly qualified to accomplish all of the tasks necessary to prepare environmental document(s) for the proposed contract. LSA's Irvine office has over 90 technical and support staff, including environmental planners, air quality and greenhouse gas emissions specialists, biologists, archaeologists, paleontologists, architectural historians, noise specialists, and transportation specialists who are ready to assist IRWD with future projects.

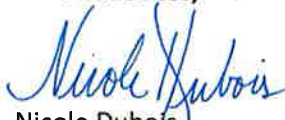
The LSA Team will be led by Nicole Dubois as Principal in Charge. Ms. Dubois will be supported by Environmental Task Leaders Nicole West, David Atwater, and Shelby Cramton. Ms. Dubois and the Environmental Task Leaders have extensive experience managing environmental projects and conducting CEQA and NEPA analysis for projects throughout Southern California. They will remain assigned to the contract for its duration.

In summary, LSA offers the following:

- Recent environmental experience with water districts, including IRWD
- A unique one-stop option for the completion of CEQA and NEPA documentation, including biological resources, architectural and historic resources, archaeology, paleontology, air quality, greenhouse gas emissions, noise, and transportation
- Commitment of senior-level staff who can provide technical expertise and project management skills to advance the CEQA process
- Depth of resources (90 staff in Irvine) to keep project schedules on track.

Thank you in advance for your consideration of this proposal. Although every effort has been made to anticipate your needs, LSA welcomes the opportunity to discuss this proposal in further detail. If you have any questions, please contact Nicole Dubois at (949) 553-0666 or [nicole.dubois@lsa.net](mailto:nicole.dubois@lsa.net).

Sincerely,  
**LSA Associates, Inc.**

  
Nicole Dubois  
Managing Principal



## INTRODUCTION

**LSA Associates, Inc. (LSA)** is pleased to submit this Statement of Qualifications/Proposal to provide on-call environmental consulting services for the Irvine Ranch Water District (IRWD) in accordance with the California Environmental Quality Act (CEQA) and/or the National Environmental Policy Act (NEPA).

LSA is a diversified environmental, transportation, and project management firm that evolved from a small consulting firm formed by Larry Seeman in 1976. (LSA was originally called Larry Seeman Associates.) The firm was designed to meet the need for environmental evaluation as a result of the passage of CEQA in 1970. From this foundation, the firm's expertise, experience, and services have grown to encompass the many issues related to environmental law. LSA has over 40 years of experience helping clients navigate the often complex process of environmental review.

**ENVIRONMENTAL PLANNING** has been the cornerstone of LSA's professional practice since its founding and continues to be one of the firm's key practice areas. LSA's environmental staff includes expert practitioners of CEQA (including CEQA+) and NEPA. LSA's multidisciplinary project teams are assembled to fit the specific needs of each client and project.

The firm provides support with all aspects of CEQA and NEPA compliance, including preparation of documentation; coordination with affected federal, State, and local agencies; and implementation and monitoring of mitigation during construction and operation of facilities.

LSA's work begins with the collection and analysis of baseline data, which is used to determine the significance of a project's impacts. The firm then proposes mitigation measures to reduce impacts, where possible, to below levels of significance. It also provides recommendations on project design refinements and/or alternatives to avoid or reduce otherwise significant impacts, as well as ensure thorough and accurate documentation (including the use of LSA's Geographic Information Systems [GIS] Division) as required to assist regulators in making informed decisions and protect the project from litigation.

In addition to its capabilities in preparing CEQA and NEPA documents, the LSA staff includes in-house expert professionals in a variety of technical disciplines. By maintaining its technical expertise in house, LSA will provide IRWD with an integrated, multidisciplinary team that facilitates communication of project information, deliverables, and schedules. A few of LSA's technical disciplines are highlighted below:

**LSA's Services include the following:**

- *Preparation of EIRs/EISs, ISs, EAs, IS/NDs, IS/MNDS, FONSIs, and EIR Addendums*
- *Preparation of supporting technical studies (such as for air quality, greenhouse gas emissions, noise, transportation, biological resources, cultural resources, paleontological resources, and historic resources)*
- *Coordination with local, State, and federal resource agencies and management of public participation programs*
- *Issuance of legal notices and incorporation of environmental documents into planning processes*
- *Mitigation monitoring including dust control, noise, biological, archaeological, and paleontological monitoring*
- *Implementation of permitting procedures for federal and State resource permits*



- LSA's **AIR QUALITY, GREENHOUSE GAS (GHG) EMISSIONS, AND NOISE** staff offer complete assessment modeling and monitoring of noise and air quality impacts for educational, residential, commercial, and industrial developments; General Plan and Specific Plan studies; and transportation projects. These services include modeling of construction and operational emissions from mobile and stationary sources. In addition, LSA remains current in regard to ever-changing regulations and requirements pertaining to GHG emissions and global climate change.
- LSA's **BIOLOGICAL RESOURCES** staff are known for their outstanding expertise in evaluation, management, and restoration of biological resources. LSA's staff of scientists prepares biological resource inventories, constraints analyses, and impact assessments. LSA's extensive experience in wetlands analysis, special-status species evaluation, and environmental permitting is respected by both clients and regulatory-agency staff. LSA designs habitat restoration plans and mitigation banks, implements and monitors revegetation programs, and facilitates successful completion of permitting assignments. Extensive use of GIS and global positioning system (GPS) technology has become a regular part of LSA's work.
- LSA's **CULTURAL AND PALEONTOLOGICAL RESOURCES** staff provide field surveys, testing, laboratory services, resource evaluation, and historical assessments. When required to offset significant impacts, LSA will develop cost-sensitive and practical mitigation for cultural and paleontological resources protection and preservation. LSA is also available to assist with the tribal consultation process for Senate Bill [SB] 18 and Assembly Bill [AB] 52, if requested.
- LSA's **TRANSPORTATION** staff offer comprehensive planning and engineering services for all aspects of development and transportation projects. LSA's services include preparation of Traffic Impact Analysis reports, modeling for regional transportation networks, identifying roadway funding and cost-sharing opportunities, assessing traffic and parking conditions, and developing strategic solutions.





## 1. SCOPE

LSA's mission is to provide services in the environmental disciplines to public and private clients that have the ability and capacity to affect the existing physical environment. Since this assignment is for on-call services to be performed on a task-order basis, a specific work plan cannot be presented at this time. However, this section presents LSA's general approach to this contract and to a range of potential environmental documents. Additionally, a detailed sample Scope of Work, schedule, and budget are provided in Appendix A; this sample Scope of Work assumes a moderately complicated project.

It is essential that there be a clear understanding between IRWD staff and the LSA Team regarding each assignment's goals and objectives. The appropriate lines of communication and reporting will be established to assure that the work progresses on schedule and as planned. LSA's basic management plan for each task order is to provide a well-defined budget, schedule, Scope of Work, staffing plan, progress reporting, and quality control procedures based on LSA's Quality Control Plan. This work plan will ensure that a proactive approach to project management is provided to client staff. LSA's goal is to function as an extension of IRWD staff throughout the duration of the contract.

At project initiation, it is expected that the LSA Team will meet with key IRWD staff members, refine the Scope of Work, delegate responsibility, and establish key project milestones. LSA will develop protocols for communication with IRWD staff and with responsible agencies, if applicable. LSA will proactively communicate with IRWD, which includes attendance at status meetings or calls with IRWD on a regular basis to ensure adequate progress and resolve issues throughout the CEQA and/or NEPA process. LSA's overall approach to conducting successful environmental analyses, preparing environmental documents, and regulatory permitting involves organizing both the LSA Team and the project tasks to achieve the following objectives:

- Work with IRWD staff and the consultant team, if any, to minimize project environmental impacts to the maximum extent practicable to reduce mitigation costs and streamline environmental approvals.
- Obtain final environmental clearance and resource agency permits for all project components.
- Ensure that all procedural steps required by CEQA and/or NEPA and IRWD are met in a timely manner and that all applicable regulations and guidelines are followed.
- Proactively resolve issues and pursue needed information and decisions to facilitate completion of CEQA and/or NEPA requirements within the agreed-upon schedule. If issues arise that would jeopardize the schedule, LSA will immediately apprise IRWD of the problem and diligently develop alternative approaches to maintain the schedule.
- Effectively use email, telephone, letter correspondence, and meetings to communicate with IRWD in a timely and thorough manner to ensure efficient coordination and flow of information.
- Provide in-house review of all products by a technical editor and a Principal prior to submittal, as stated in the LSA Quality Control Handbook. LSA's quality control procedures ensure that LSA documents arrive for review in final form, which allows the reviewer to concentrate on issues of substance rather than on editing tasks.



- Incorporate early involvement of and coordination with State and federal regulatory and resource agencies (subject to IRWD approval) to resolve issues and confirm assessment methodologies.
- Maximize use of existing information to limit the need for new or supplemental studies.

## 2. TEAM

As an on-call environmental services consultant to more than 70 agencies in California within the last 5 years, LSA recognizes that an on-call assignment requires an “on-call” obligation. The team must **act quickly**; it must be **responsive, knowledgeable**, ready to use its experience for myriad possible requests, and **solution-oriented**. LSA’s range of experience has led it to one common denominator when working under an on-call services contract: constant, clear, productive **communication**. If placed on IRWD’s on-call list, LSA will be responsive and efficient, maintaining frequent and purposeful communication with IRWD staff. LSA is committed to providing IRWD with prompt, efficient service and unparalleled expertise.

A hallmark of LSA’s approach is to use senior-level staff members who remain assigned and committed to a project for the full term of the project. Before bidding on a project or individual task orders, LSA evaluates its workload and assignments to determine whether it can meet the client’s goals. LSA pursues projects only when it can commit the appropriate resources. LSA’s reliability is demonstrated by both its successful track record and its commitment of senior-level staff to this project. It is LSA’s intention that its staff play a consistent, lead role from start to finish. Key personnel will not be replaced without written authorization from IRWD.

### **Nicole Dubois** *Principal in Charge*

Ms. Dubois will serve as the Principal in Charge for all new task orders issued under the on-call contract. Ms. Dubois will be the main point of contact for IRWD. Project management tasks include regular contact with IRWD staff and the Project Team, contract management, schedule coordination, budget tracking and control, and development of deliverables. Ms. Dubois will be available for consultation on CEQA procedural matters and will attend meetings and public hearings with IRWD staff, as requested.

Ms. Dubois will also be ultimately responsible for quality assurance for all work undertaken and will review all in-house prepared text, tables, and graphics before these materials are presented to IRWD. Ms. Dubois will provide direction to all team members that will ensure internally consistent, coherent documents, and will coordinate the day-to-day activities associated with assigned tasks.

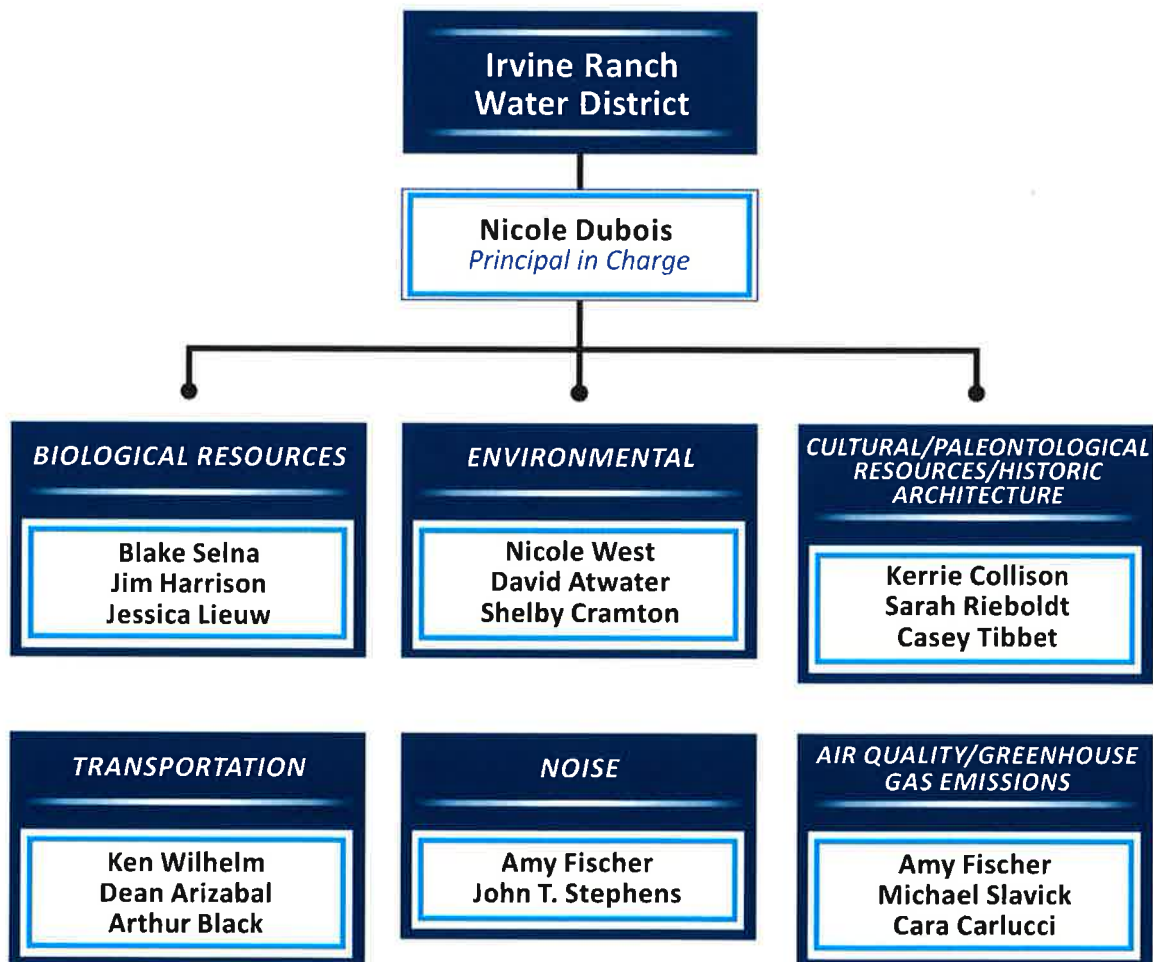
As a Principal at LSA, she has extensive experience in the preparation of environmental documents for a variety of land development, redevelopment, institutional, and capital improvement projects, including Initial Studies (ISs), Mitigated Negative Declarations (MNDs), and Environmental Impact Reports (EIRs). Her primary responsibilities include research, preparation, and management of environmental documents prepared in compliance with both CEQA and NEPA. Ms. Dubois has extensive experience managing large environmental projects and conducting CEQA analysis for projects throughout Southern California. Ms. Dubois is currently working with IRWD on the IS/MND for the San Joaquin Reservoir



Filtration Project and with the Orange County Sanitation District (OCSD) on the IS/Addendum to the Fountain Valley Crossings EIR for the proposed Administration Building, Site Security, and Entrance Realignment Project. Ms. Dubois has also previously worked with IRWD on the Eastwood Recycled Water Pump Station IS/MND and with the Moulton Niguel Water District (MNWD) on the IS/MND for the proposed Operations Center in Laguna Hills.

### ENVIRONMENTAL TASK LEADS AND TECHNICAL STAFF

Ms. Dubois, Principal in Charge, will be assisted by the Environmental Task Leaders and technical staff shown in Table A, [LSA Key Personnel](#). The individuals presented in this table and the [Organization Chart](#), below, were specifically selected because of their technical expertise and prior work on IRWD projects or projects with similar requirements. While these individuals represent LSA's "core team" for this contract, support staff from within LSA may be brought onto the team as needed. Since LSA maintains a full complement of staff in all environmental and technical disciplines, the company is able to be flexible with staff assignments and to adjust workload priorities to meet IRWD's product and scheduling needs. As stated above, the Principal in Charge will be assigned for the duration of the contract. Resumes for key personnel are provided in Appendix B.





**Table A: LSA Key Personnel**

Staff Member	Education/Registrations	Years of Experience	Percentage of Time Available to Contribute to IRWD	Recent Experience
<b>Project Management</b>				
Nicole Dubois, Principal Environmental Planner	Master of Planning, University of Southern California; B.A., Art History and Organizational Studies, Pitzer College	18	30%	<ul style="list-style-type: none"> <li>IRWD Eastwood Recycled Water Pump Station</li> <li>IRWD San Joaquin Reservoir Filtration Project</li> <li>Moulton Niguel Water District (MNWD) Operations Center IS/MND</li> <li>Orange County Sanitation District (OCSD) Headquarters Complex, Site and Security, and Entrance Realignment Program</li> </ul>
<b>Environmental Task Leaders</b>				
Nicole West, CPSWQ, QSD/QSP, Associate Environmental Planner	M.S., Civil and Environmental Engineering, University of California, Berkeley; B.S., Evolution and Ecology, University of California; CPSWQ; QSD/QSP	19	50%	<ul style="list-style-type: none"> <li>IRWD Eastwood Recycled Water Pump Station</li> <li>MNWD Operations Center</li> <li>Vail Dam Seismic and Hydrologic Remediation Project</li> <li>OCSD Headquarters Complex, Site and Security, and Entrance Realignment Program</li> </ul>
David Atwater, Senior Environmental Planner	B.S. in Urban and Regional Planning with an Interdisciplinary Minor in GIS Applications, California State Polytechnic University, Pomona;	10	50%	<ul style="list-style-type: none"> <li>IRWD Eastwood Recycled Water Pump Station</li> <li>Rancho California Water District (RCWD) Santa Rosa Water Reclamation Facility Rehabilitation Program CEQA-Plus and Categorical Exemption</li> <li>West Valley Water District (WVWD) Wellhead Treatment System</li> <li>Metropolitan Water District of Southern California (MWD) Lakeview Pipeline Repair Project IS/MND</li> </ul>
Shelby Cramton, Environmental Planner	M.A., Urban Planning, California State University, Northridge; B.A., Urban Studies and Planning, University of California, San Diego	3	50%	<ul style="list-style-type: none"> <li>OCSD Headquarters Complex, Site and Security, and Entrance Realignment Program</li> <li>Upper and Lower Niguel Shores Meter Improvement Projects</li> <li>Mission Foothills Residential Project</li> </ul>
<b>Air Quality/Greenhouse Gas Emissions</b>				
Amy Fischer, Principal Air Quality/Noise Specialist	B.S., Environmental Policy Analysis, with a Minor in Geography, University of Nevada, Reno	19	10%	<ul style="list-style-type: none"> <li>IRWD Eastwood Recycled Water Pump Station Project</li> <li>Richmond Wet Weather Storage Project</li> <li>Penitencia Delivery Main and Penitencia Force Main Seismic Retrofit Project</li> </ul>

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**Table A: LSA Key Personnel**

Staff Member	Education/Registrations	Years of Experience	Percentage of Time Available to Contribute to IRWD	Recent Experience
Michael Slavick, Senior Air Quality Specialist	B.S., Environmental Policy Analysis and Planning, University of California, Davis	28	30%	<ul style="list-style-type: none"> <li>IRWD Eastwood Recycled Water Pump Station Project</li> <li>Metropolitan Water District (MWD) Whitewater River/Colorado River Aqueduct Siphon Scour Protection, Mine Reclamation, and Cabazon Radial Gate</li> <li>Cemetery Area Water Pipeline Replacement</li> </ul>
Cara Carlucci, Environmental Planner/Air Quality Specialist	B.S., City & Regional Planning with a Minor in Real Property Development, California Polytechnic State University	5	30%	<ul style="list-style-type: none"> <li>City of Lemoore Water Treatment Plants Project</li> <li>Municipal Well Site 22 Project</li> <li>Cogeneration at the City of Richmond Wastewater Treatment Plant</li> </ul>
<b>Biological Resources</b>				
Blake Selna, Principal Biologist	B.S., Environmental and Resource Sciences, University of California, Davis	19	20%	<ul style="list-style-type: none"> <li>IRWD Michelson Water Reclamation Plant Mitigation Monitoring, Compliance, and Reporting Program</li> <li>IRWD Carlson Marsh Regrade regulatory permits and construction monitoring</li> <li>IRWD Natural Treatment System Integrated Pest Management Plan Monitoring</li> <li>OC Waste &amp; Recycling On-Call Services, primarily Prima Deshecha Landfill Expansion Regulatory Permitting and Mitigation Program</li> <li>OC Public Works La Pata Avenue Extension Regulatory Permitting and Construction Monitoring</li> </ul>
Jim Harrison, Senior Biologist	B.A., Biological Sciences, California State University, Fullerton	27	30%	<ul style="list-style-type: none"> <li>California High-Speed Rail Project, Bakersfield to Palmdale, Claypan Jurisdictional Delineations</li> <li>OC Waste &amp; Recycling On-Call Services</li> <li>Rancho San Gorgonio Development Project, Jurisdictional Delineation</li> </ul>
Jessica Lieuw, Assistant Biologist	B.A., Environmental Science, University of California, Irvine	3	30%	<ul style="list-style-type: none"> <li>IRWD Integrated Pest Management Plan Implementation</li> <li>Yorba Linda Boulevard Widening Project</li> <li>Capistrano Beach Emergency Coastal Development Permit</li> </ul>
<b>Cultural/Paleontological Resources</b>				
Kerrie Collison, RPA, Senior Cultural Resources Manager	M.A., Anthropology (Public Archaeology), California State University, Northridge; Registered Professional Archaeologist (RPA) No. 28731436	11	25%	<ul style="list-style-type: none"> <li>Southern California Edison On-Call Cultural Resource Services</li> <li>Caltrans District 12 On-Call Environmental Services</li> <li>Nohl Ranch Open Space Project</li> </ul>

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Table A: LSA Key Personnel

Staff Member	Education/Registrations	Years of Experience	Percentage of Time Available to Contribute to IRWD	Recent Experience
Sarah Rieboldt, Ph.D., Associate Paleontologist	Ph.D., Paleontology, University of California, Berkeley, 2005; B.A., Biology ( <i>Magna cum Laude</i> ), University of Colorado, Boulder	19	20%	<ul style="list-style-type: none"> <li>IRWD San Joaquin Reservoir Filtration Project</li> <li>MNWD Operations Center and Site Consolidation Project</li> <li>Ball Road Sanitary Sewer and Storm Drain Improvements Project</li> </ul>
Casey Tibbet, Associate, Architectural Historian	M.A., History (Historic Preservation), University of California, Riverside; B.A., Political Science, University of California, Riverside	23	15%	<ul style="list-style-type: none"> <li>Retainer Contract for the State Department of General Services—Historic Resources Assessment of the Los Pinos Forestry Camp</li> <li>Historic Resources Evaluation Report for State Route 1, 7th Avenue to Moss Street, ADA Upgrade Project</li> <li>City of Anaheim Library Green Space Project</li> </ul>
<b>Noise</b>				
Amy Fischer, Principal Noise Specialist	B.S., Environmental Policy Analysis with a Minor in Geography, University of Nevada, Reno	16	10%	<ul style="list-style-type: none"> <li>Richmond Wet Weather Storage Project</li> <li>Penitencia Delivery Main and Penitencia Force Main Seismic Retrofit Project</li> <li>Madera Irrigation District Annexation Project IS/MND</li> </ul>
John Stephens, Associate Noise Specialist	B.S., Acoustical Engineering with a Minor in Communications, Purdue University; E.I.T. License No. ET30504764	15	30%	<ul style="list-style-type: none"> <li>MNWD Operations Center Project</li> <li>Shoemaker Bridge Replacement</li> <li>Southwest Fontana Logistics Center Project</li> </ul>
<b>Transportation</b>				
Ken Wilhelm, Principal Transportation Planner	B.A., Sociology, Chapman University	27	10%	<ul style="list-style-type: none"> <li>Eastwood Recycled Water Pump Station Project</li> <li>Irvine Business Complex TIAs</li> <li>Irvine Long-Range Transportation Vision Plan</li> </ul>
Dean Arizabal, Associate Transportation Planner	B.S., Computer Engineering, University of California, Irvine	17	30%	<ul style="list-style-type: none"> <li>Eastwood Recycled Water Pump Station Project</li> <li>Diamond Jamboree Retail Center</li> <li>Shipyard Sediment Remediation Project</li> </ul>
Arthur Black, Associate Transportation Planner	Master of Urban and Regional Planning, California State Polytechnic University, Pomona	13	30%	<ul style="list-style-type: none"> <li>MNWD Operations Center Project</li> <li>City of Long Beach General Plan TIA</li> <li>Santa Clara Valley Water District Pipe Replacement and Upgrading Project</li> </ul>

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### 3. EXPERIENCE

LSA has been an on-call environmental-services consultant to more than 70 agencies in California within the last 5 years. Presented below are descriptions of representative projects that demonstrate LSA's experience working with public agencies to complete CEQA and NEPA analysis for a variety of public and private projects.

#### CALIFORNIA ENVIRONMENTAL QUALITY ACT

##### **IRWD Eastwood Recycled Water Pump Station**

**Location:** Irvine, California

**Contact:** Jo Ann Corey, (949) 453-5326, corey@irwd.com

LSA prepared an IS/MND for the Eastwood Recycled Water Pump Station Project. The pump station will ultimately house 14 pumps within one building and will include the installation of three surge tanks, installed slightly below grade, with a roof structure. The project's purpose is to meet increasing demand in IRWD's Zone B and Zone C recycled-water service areas, provide a high degree of operational flexibility, and maximize the use of recycled water. Construction will include a concrete foundation, a concrete masonry unit block building, lighting, connections to existing recycled-water lines within the adjacent roadway, new recycled-water lines within the adjacent roadway, storm water drainage infrastructure (e.g., curbs and gutters), and installation of asphalt concrete for vehicular access and parking. In addition to the environmental document, LSA prepared air quality/GHG, noise, and traffic analyses for incorporation into the environmental document.

##### **IRWD San Joaquin Reservoir Filtration Facility**

**Location:** Newport Beach, California

**Contact:** Jo Ann Corey, (949) 453-5326, corey@irwd.com

LSA is preparing an IS/MND for the San Joaquin Reservoir Filtration Project. The purpose of this project is to improve the quality of water transmitted from the reservoir by constructing new filtration facilities. The project includes new dual-module filtration facilities with a capacity of 18.5 cubic feet per second. These facilities will be located in a new building adjacent to an existing Control Building. In addition, the booster pumps located in the existing pump room of the Flow Control Facility must be replaced to accommodate the new filters. In addition to the environmental document, LSA is preparing technical analysis for air quality/GHG emissions, noise, traffic, archaeological resources, paleontological resources, and biological resources for incorporation into the environmental document, as well as assisting IRWD with AB 52 Native American consultation.

##### **MNWD Operations Center**

**Location:** City of Laguna Hills, California

**Contact:** Matt Collings, (949) 448-4032, mcollings@mnwd.com

LSA prepared an IS/MND and related technical reports for the proposed MNWD Operations Center. MNWD proposal construction of a two-story, 45,000 sf office building, expanded above-ground fuel storage, a realignment of the entrance to the facility, a detention/ bioretention basin, and on- and off-site utility improvements including installation of a new 21-inch reinforced concrete pipe storm drain in the public right-of-way. In addition to the environmental document, LSA prepared an archaeological survey report and provided assistance with Native American consultation required by AB 52; and provided a paleontological resources report, a biological resources report and jurisdictional delineation, a



traffic impact assessment, an air quality and GHG analysis, and a noise analysis. LSA also provided assistance related to the acquisition of regulatory permits from CDFW.

### **Rancho California Water District Santa Rosa Water Reclamation Facility Rehabilitation Program**

**Location:** City of Murrieta, California

**Contact:** Andrew Webster, (951) 676-6740, AndrewWebster@kennedyjenks.com

LSA prepared a Categorical Exemption and CEQA+ technical studies in support of the Categorical Exemption. Funding for this project came from the State's Clean Water State Revolving Fund, which requires an evaluation against certain federal regulations including Section 7 of the Endangered Species Act, the Migratory Bird Treaty Act, Section 106 of the National Historic Preservation Act, and the Clean Air Act, in addition to CEQA+ requirements. In addition, a Noise Impact Analysis was prepared to address potential construction-related noise. The project entailed the replacement of components of the existing infrastructure, reconfiguration of piping, and installation of new components within the existing facility footprint. The objectives of the project were to maximize the life of the existing assets; replace obsolete, inefficient, and failing equipment; improve the operational characteristics and quality of the facility processes; decrease operational costs; and increase reliability.

### **West Valley Water District Wellhead Treatment System Project**

**Location:** Rialto, California

**Contact:** Thomas J. Crowley, (909) 820-3702, tcrowley@wcvwd.org

LSA prepared the IS/MND analyzing the environmental impacts associated with a groundwater perchlorate treatment system in which contaminated water from existing wells would be thoroughly treated for drinking-water purposes through the use of a biological treatment process for the West Valley Water District. Although there are five full-scale treatment systems that utilize this technology, the project is the first application of the technology in the United States that utilizes a biological process to treat groundwater for the purpose of a drinking-water system. The IS/MND was approved by the West Valley Water District Board in September 2009.

LSA also prepared an Addendum to the original IS/MND. The Addendum provided assessment of potential impacts attributable to air pollution emissions from a change in the project's soil import/export schedule. The original approval analyzed a project that included a balancing of on-site soils, while the amended project included export of approximately 9,000 cubic yards to locations in Arizona and Nevada. Detailed calculations of air pollution emissions were prepared to the satisfaction of South Coast Air Quality Management District staff. Under tight time frames needed to keep the Water District construction contractor's schedule, the Addendum was approved by the District Board in August 2011.

### **IRWD Addendums No. 3 and No. 4 to the Final EIR for the Irvine Desalter Project**

**Location:** Irvine, California

**Contact:** Christian Kessler, (949) 453-5441, Kessler@irwd.com

LSA prepared Addendum No. 3 to the Final EIR for the Irvine Desalter Project (IDP), pursuant to CEQA and the *State CEQA Guidelines*. LSA tiered off of IRWD's Master Plan of Sewers EIR to prepare the appropriate environmental documentation. The Addendum analyzed modifications to the potable system as a result of a relocated site for the Potable Treatment Plant, additional potable wells, new locations of potable-well sites, construction of new pipelines and reuse of existing pipelines, a new brine line, and other appurtenant changes as they related to those modifications. On September 15, 2004, the Orange County Water District (OCWD) Board approved Addendum No. 3 to the Final EIR to cover these project modifications (Resolution No. 04-9-124).





LSA prepared Addendum No. 4 to the Final EIR for the IDP, pursuant to CEQA and the *State CEQA Guidelines*. The IDP is a joint groundwater quality restoration project by IRWD and OCWD, with financial participation by the United States Department of the Navy, to clean up the groundwater in the vicinity of the former Marine Corps Air Station El Toro. The Addendum addressed the replacement of existing Well 78, including the destruction and replacement of the existing well, wellhead, and vault; pipeline; electrical equipment; instrumentation; and ancillary equipment.

### **IRWD Previous On-Call Services**

**Location:** IRWD Service Territory

**Contact:** Christian Kessler, (949) 453-5441, Kessler@irwd.com

LSA was retained by IRWD to provide on-call biological and environmental services. Work under this contract included the following: biological surveys; monitoring of IRWD construction and maintenance activities to prevent biological impacts and ensure compliance with the Fish and Game Code, the Clean Water Act, and the Endangered Species Act; providing assistance with obtaining necessary approvals under these regulations; and providing assistance with CEQA and NEPA documentation.

Under an on-call contract, LSA was asked to assist IRWD with the design, permitting, and construction of its 104-acre (ac) pond enhancement project in the San Joaquin Marsh of Irvine. One of the purposes of the project was to decrease nitrate concentration in tertiary-treated water prior to discharge. Design issues included the maximization of bird habitat and selection of plant species. LSA prepared permit application documents and assisted with permit processing to enable IRWD to obtain a United States Army Corps of Engineers (USACE) Section 404 Permit and California Department of Fish and Wildlife (CDFW) Streambed Alteration Agreement in less time than these agencies normally allot for these processes (i.e., fewer than 4 months for the Section 404 Permit and fewer than 30 days for the Streambed Alteration Agreement). Construction work included monitoring for biological, archaeological, and paleontological resources. Subsequently, LSA was retained under a separate contract with the Irvine Company to prepare a wetland mitigation plan to offset the minor impacts of the pond enhancement project and to create a wetland mitigation bank associated with the pond.

Additional IRWD projects that were initiated under the on-call services arrangement or supplemental sole source contracts included the following:

- Monitoring of emergency repairs on a broken pipeline in Sand Canyon Creek, and preparation of a restoration plan to mitigate the damage. LSA also monitored the restoration and is currently conducting the long-term maintenance and performance monitoring.
- Preparing a habitat restoration plan and the subsequent monitoring of its implementation for a slope repair project in Mason Regional Park. The slope, which was damaged by a water line leak, supported coastal sage scrub habitat that was occupied by the threatened California gnatcatcher. Assessment of the damage and development of the plan included coordination with the Orange County Harbors, Beaches, and Parks Department.
- Habitat mapping in the area of a proposed landscape berm for the purpose of determining constraints and permit requirements.
- Monitoring of weed removal activities throughout San Joaquin Marsh to ensure compliance with the Migratory Bird Treaty Act.
- Assessment of the biological effects of a leak in a pipeline containing tertiary-treated wastewater. The work included interaction with a hydrologist to help determine the likely extent of the zone of





saturation caused by the leak. LSA specialists examined field conditions and historical aerial photographs to assess impacts on vegetation types.

- Conducting a 3-year study of habitat and soil conditions in Upper Newport Bay in anticipation of a permitted discharge of tertiary-treated water from the Michelson Treatment Plant on San Diego Creek. LSA's studies included comprehensive vegetation mapping on an annual GPS mapping of the interface between saltmarsh and freshwater-marsh vegetation and sampling of soil to determine salt content. Two years of monitoring were originally required to provide baseline information and for a study of the potential effects of the release of tertiary-treated water by IRWD at the Michelson Treatment Plant on San Diego Creek. Although the discharge permit was suspended, the monitoring study continued for 3 years, providing comprehensive baseline data as well as an indication of ongoing changes in the distribution of vegetation.
- Mitigation compliance monitoring, noise monitoring, special-status species surveys and monitoring, preconstruction nesting bird surveys, and vegetation clearing monitoring at the Michelson Water Reclamation Plant Phase 2 and 3 Capacity Expansion Project.
- CEQA documentation for the Santiago Canyon Generators and Irvine Desalter Projects (detailed elsewhere in this document).
- Archaeological/paleontological monitoring at Wells 21 and 22.
- Arborist evaluation in Modjeska Canyon.

## NATIONAL ENVIRONMENTAL POLICY ACT

### **RCWD Vail Dam Seismic and Hydrologic Remediation Project**

**Location:** Temecula, California

**Contact:** Randy Neff, 951-296-6988, neffr@ranchowater.com

LSA is providing environmental and permitting services for the Vail Dam Seismic and Hydrologic Remediation Project. RCWD proposes to remediate seismic and hydrologic hazards associated with the existing Vail Dam, an arch dam, by constructing a new straight-axis gravity concrete dam immediately downstream of the existing dam. LSA is preparing an EIR/EIS, technical studies, and permit applications for the project. RCWD is the CEQA Lead Agency. The NEPA lead agency has not yet been determined; however, coordination is currently ongoing with the United States Federal Emergency Management Agency (FEMA), the United States Bureau of Reclamation, USACE, and the United States Fish and Wildlife Service.

### **IRWD Santiago Canyon Area Booster Pump Station Permanent Generators Project**

**Location:** Modjeska Canyon (unincorporated Orange County), California

**Contact:** Christian Kessler, (949) 453-5441, Kessler@irwd.com

LSA prepared an IS/MND and Environmental Assessment/Finding of No Significant Impact (EA/FONSI) for the IRWD Santiago Canyon Area Booster Pump Station (BPS) Permanent Generators Project. The project site was located within the Santiago Canyon–Modjeska Canyon area within an unincorporated portion of Orange County. In October 2007, the Santiago Fire burned through IRWD's Santiago Canyon service area, threatening homes, businesses, and IRWD's reservoirs and BPSs in the region. During the Santiago Fire, power outages were experienced at several of the pump stations, requiring the installation of portable emergency generators at each site. However, these temporary generators are also susceptible to damage by wildfires and are not permitted for permanent installation. LSA assisted IRWD in obtaining the necessary CEQA/NEPA clearance for permanent replacement of these portable generators to



improve the reliability of the water system during power outages, particularly when the outages are caused by fires in the canyons.

### **City of Hope Replacement Hospital Project**

**Location:** Duarte, California

**Contact:** David Wade, (562) 618-7605, Dswade22@gmail.com

LSA prepared an EA/FONSI addressing the environmental effects of the Helford Clinical Research Hospital. Helford Hospital replaced older structures with a state-of-the-art facility that facilitates patient, physician, and clinical-research interaction. Construction of Helford Hospital was necessary to address damage sustained to structures as a result of the Northridge earthquake, achieve State seismic requirements for acute-care facilities, and update the City of Hope's delivery of service.

The EA/FONSI was prepared consistent with the FEMA guidelines for implementation of NEPA. As part of the EA/FONSI, coordination with several federal agencies was conducted to address potential effects to biological and cultural (historic) resources. Effects to the local community were also assessed in the EA/FONSI. Potential air quality, noise, and traffic associated with construction activities were evaluated, and appropriate minimization measures were identified. Air quality, noise, traffic, and parking effects were also evaluated. Of particular concern to the local community was the adequacy of parking on campus and the potential for visitors and employees parking on local streets. Additionally, potential visual and shade/shadow effects were evaluated. Due to the height of the structure and proximity to existing residences, a shade/shadow analysis was conducted to assess potential effects on residences to the west of the City of Hope campus.

## **MITIGATION MONITORING AND REPORTING**

### **IRWD Carlson Marsh Regrade**

**Location:** Irvine, California

**Contact:** Eric Akiyoshi, (949) 453-5854, akiyoshi@irwd.com

LSA assisted IRWD with the acquisition of the regulatory permits necessary for the Carlson Marsh Regrade project, in which the water circulation in the degraded marsh was restored and exotic plant species were eradicated. Permits included an Individual 404 Permit from USACE, a Streambed Alteration Agreement from CDFW, and a Section 401 Certification from the Santa Ana Regional Water Quality Control Board. LSA coordinated a construction-monitoring regimen for the vegetation removal and excavation of pilot channels, and a Habitat Mitigation and Monitoring Plan for the restoration of impacted habitat. After 4 years of habitat restoration monitoring and reporting, LSA received resource agency approval documenting that the site met all required performance standards and was released from further maintenance obligations.

### **RCWD Revegetation**

**Location:** Southern California

**Contact:** Andrew Webster, (951) 676-6740, AndrewWebster@kennedyjenks.com

LSA served as the primary revegetation consultant to RCWD for several new facilities. LSA prepared construction documents and specifications for implementation of the Valle de Los Caballos Upper and Lower Recharge Basin riparian area, El Chimisal Reservoir No. 2, the Date Street Reservoir, and the Date Street 1670 Transmission Main. LSA also provided recommendations and prepared construction documents and specifications for several native-habitat revegetation projects (chaparral and coastal sage scrub) associated with other RCWD facilities. LSA monitored and managed installation, maintenance, weed control, and progress of several native revegetation projects for RCWD. Monitoring activities



included coordination and oversight of plant and seed procurement, scheduling of site preparation and plant/seed installation, frequent site visits during installation to ensure compliance with specifications and provide technical expertise, preparation of field memorandums documenting field activities, frequent site visits following installation to document and provide technical expertise during the maintenance period, and preparation of summary reports for submittal to resource agencies and the RCWD for areas adjacent to RCWD structures and facilities in Murrieta Hills and Temecula. Additionally, LSA prepared recommendations for monitoring performance criteria, maintenance, and remedial planting for upland projects already in the ground. LSA also served as the revegetation specialist expert witness for the RCWD in litigation.

### **IRWD Integrated Pest Management Plan Implementation**

**Location:** Irvine, California

**Contact:** Ian Swift, (949) 453.5864, [swift@irwd.com](mailto:swift@irwd.com)

LSA is currently involved with implementing the IRWD Integrated Pest Management (IPM) Plan in IRWD's 34 natural-treatment-system facilities and the 300 ac San Joaquin Marsh. The IPM Plan aims to treat pests within these facilities while minimizing impacts on human health and the environment. Under this contract, LSA has been in charge of organizing an innovative approach to managing invasive-plant maintenance activities that focuses on nonchemical treatment methods. LSA biologists are responsible for routine site visits to map locations of invasive-plant pest outbreaks, as well as determining effective treatment methods. In doing so, LSA has developed an interactive data viewer that allows relevant parties to access real-time data, thus streamlining communication between LSA, IRWD, and IRWD's landscape contractor.

## **4. REFERENCES**

In lieu of reference letters, below is a summary of LSA's most recent work for IRWD. In addition, contact information for IRWD staff involved in these projects is provided in the table below.

### **IRWD Eastwood Recycled Water Pump Station**

LSA prepared an IS/MND for the Eastwood Recycled Water Pump Station Project. The pump station will ultimately house 14 pumps within one building and will include the installation of three surge tanks, installed slightly below grade, with a roof structure. The project's purpose is to meet increasing demand in IRWD's Zone B and Zone C recycled-water service areas, provide a high degree of operational flexibility, and maximize the use of recycled water. Construction will include a concrete foundation, a concrete masonry unit block building, lighting, connections to existing recycled-water lines within the adjacent roadway, new recycled-water lines within the adjacent roadway, storm water drainage infrastructure (e.g., curbs and gutters), and installation of asphalt concrete for vehicular access and parking. In addition to the environmental document, LSA prepared technical analysis related to air quality/GHG, noise, and traffic analyses for incorporation into the environmental document.

### **IRWD San Joaquin Reservoir Filtration Facility**

LSA is preparing an IS/MND for the San Joaquin Reservoir Filtration Project. The purpose of this project is to improve the quality of water transmitted from the reservoir by constructing new filtration facilities. The project includes new dual-module filtration facilities with a capacity of 18.5 cubic feet per second. These facilities will be located in a new building adjacent to an existing Control Building. In addition, the booster pumps located in the existing pump room of the Flow Control Facility must be replaced to accommodate the new filters. In addition to the environmental document, LSA is preparing technical

## BILLING RATES FOR KEY PERSONNEL (2020-2024)

Staff Name	Title	Billing Rate
Nicole Dubois	Principal Environmental Planner	\$240
Nicole West	Associate Environmental Planner	\$190
David Atwater	Senior Environmental Planner	\$165
Shelby Cramton	Senior Environmental Planner	\$120
Amy Fischer	Principal Air Quality/Noise Specialist	\$225
Michael Slavick	Senior Air Quality Specialist	\$190
Cara Carlucci	Senior Air Quality Specialist	\$130
Blake Selna	Principal Biologist	\$240
Jim Harrison	Senior Biologist	\$140
Jessica Lieuw	Assistant Biologist	\$110
Kerrie Collison	Senior Cultural Resources Manager	\$140
Sarah Rieboldt	Associate Paleontologist	\$170
Casey Tibbet	Associate Architectural Historian	\$150
John Stephens	Associate Noise Specialist	\$170
Ken Wilhelm	Principal Transportation Manager	\$250
Dean Arizabal	Associate Transportation Planner	\$185
Arthur Black	Associate Transportation Planner	\$185
TBD	Senior Planner/Specialist	\$155
TBD	Planner/Specialist	\$115
TBD	Assistant Planner/Specialist	\$95
TBD	GIS Specialist	\$150
TBD	Graphics Specialist	\$115
TBD	Office Assistant	\$75
TBD	Research Assistant/Intern	\$55
TBD	Word Processing	\$105
TBD	Technical Editing	\$115



## JOINT VENTURE/SUBCONSULTANT ARRANGEMENTS

LSA does not propose any type of joint venture or have any intent to propose subcontract arrangements that will be utilized during the course of this project.

With a staff of over 200, LSA has the breadth and depth to respond quickly to almost any California Environmental Quality Act or National Environmental Policy Act topic. Upon receipt of a project-specific request for a work program and cost estimate, LSA will assign specialists from its air quality, biological resources, cultural resources, paleontological resources, noise, and transportation groups as needed.

If LSA does not have the in-house resources to fulfill a particular Irvine Ranch Water District (IRWD) need (e.g., Geotechnical or Hazards), or if the recent experience of another local subcontractor would allow for economies of either time or budget, LSA will engage a subcontractor agreeable to IRWD. The following lists a few of the subconsultants LSA works with for **geotechnical, hazards and hazardous-materials, and hydrology and water quality services**. LSA has worked with each of the firms listed below and finds these firms to be professional, responsive, and innovative.

**Fuscoe Engineering**

16795 Von Karman Avenue  
Irvine, California 92606

**Services:** Civil Engineering, Hydrology/Water Quality

**CWE Corporation (DBE/MBE/SBE)**

1561 East Orangethorpe Avenue, Suite 240  
Fullerton, California 92831

**Services:** Civil Engineering, Hydrology/Water Quality

**Ninyo & Moore (DBE)**

475 Goddard, Suite 200  
Irvine, California 92618

**Services:** Geotechnical Engineering, Hazards/  
Hazardous Materials

**Centec Engineering**

4299 MacArthur Boulevard  
Newport Beach, California 92660

**Services:** Hazards/Hazardous Materials



# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)  
9/30/2019

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

<b>PRODUCER</b> License # 0E67768 IOA Insurance Services 4370 La Jolla Village Drive Suite 600 San Diego, CA 92122	<b>CONTACT NAME:</b> Erica Wilson <b>PHONE (A/C, No, Ext):</b> (858) 754-0063 50233 <b>FAX (A/C, No):</b> (619) 574-6288 <b>E-MAIL ADDRESS:</b> Erica.Wilson@ioausa.com
	<b>INSURER(S) AFFORDING COVERAGE</b>
<b>INSURED</b>  LSA Associates, Inc. 20 Executive Park, Suite 200 Irvine, CA 92614	<b>INSURER A :</b> RLI Insurance Company <b>NAIC #</b> 13056
	<b>INSURER B :</b> Indian Harbor Insurance Company <b>NAIC #</b> 36940
	<b>INSURER C :</b>
	<b>INSURER D :</b>
	<b>INSURER E :</b>

**COVERAGES**                      **CERTIFICATE NUMBER:**                      **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	<input checked="" type="checkbox"/> <b>COMMERCIAL GENERAL LIABILITY</b> <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> <b>Cont Liab/Sev of Int</b>  GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:			PSB0008429	9/30/2019	9/30/2020	EACH OCCURRENCE	\$ 1,000,000
							DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 1,000,000
							MED EXP (Any one person)	\$ 10,000
							PERSONAL & ADV INJURY	\$ 1,000,000
							GENERAL AGGREGATE	\$ 2,000,000
							PRODUCTS - COMP/OP AGG	\$ 2,000,000
							<b>Deductible</b>	\$ 0
A	<input checked="" type="checkbox"/> <b>AUTOMOBILE LIABILITY</b> <input checked="" type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS ONLY Comp.: 1,000 <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY Coll.: 1,000			PSA0002786	9/30/2019	9/30/2020	COMBINED SINGLE LIMIT (Ea accident)	\$ 1,000,000
							BODILY INJURY (Per person)	\$
							BODILY INJURY (Per accident)	\$
							PROPERTY DAMAGE (Per accident)	\$
								\$
	<input type="checkbox"/> <b>UMBRELLA LIAB</b> <input type="checkbox"/> OCCUR <input type="checkbox"/> <b>EXCESS LIAB</b> <input type="checkbox"/> CLAIMS-MADE DED      RETENTION \$						EACH OCCURRENCE	\$
							AGGREGATE	\$
								\$
A	<input checked="" type="checkbox"/> <b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) <input type="checkbox"/> Y/N If yes, describe under DESCRIPTION OF OPERATIONS below		N/A	PSW0004731	9/30/2019	9/30/2020	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER	
							E.L. EACH ACCIDENT	\$ 1,000,000
							E.L. DISEASE - EA EMPLOYEE	\$ 1,000,000
							E.L. DISEASE - POLICY LIMIT	\$ 1,000,000
B	<b>Prof Liab/Clms Made</b>			PEC0054988	9/30/2019	9/30/2020	<b>Per Claim</b>	2,000,000
B	<b>Ded.: \$100k Per Clm</b>			PEC0054988	9/30/2019	9/30/2020	<b>Aggregate</b>	4,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)  
**PROOF OF INSURANCE**

<b>CERTIFICATE HOLDER</b>          <b>FOR YOUR REFERENCE ONLY</b>	<b>CANCELLATION</b>  SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	<b>AUTHORIZED REPRESENTATIVE</b> 

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# EXHIBIT "E"

**PSOMAS**

Balancing the Natural and Built Environment

January 30, 2020

Fiona M. Sanchez  
Director of Water Resources  
Irvine Ranch Water District  
15600 Sand Canyon Avenue  
Irvine, CA 92618

Subject: Proposal for On-Call CEQA and NEPA Consultation

Dear Ms. Sanchez:

Psomas understands the Irvine Ranch Water District (IRWD) is seeking a qualified consultant to provide On-Call California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA) Consultation. We have assembled a team of highly qualified professionals, many of whom are currently working on Psomas' IRWD On-Call Contract. Our goal is to provide IRWD with a full spectrum of services to comply with CEQA and NEPA requirements. Psomas will work collaboratively with IRWD to comply with all environmental requirements within established budgets and required timeframes.

The Project Team will be led by Jennifer Marks as Project Manager for this contract. Jennifer is a Senior Project Manager with 21 years of experience managing a variety of project types including water and wastewater infrastructure, development projects, and transportation improvement projects. She has worked on CEQA/NEPA projects with several water districts, including nearly five years for IRWD and several years for both regional and local City-owned water departments throughout Orange and Los Angeles counties and is familiar with the unique challenges that water district projects face. She will serve as the day-to-day contact, ensuring availability for multiple, concurrent IRWD task orders.

Jim Hunter, ENV SP, will serve as Principal-in-Charge and Quality Assurance (QA)/Quality Control (QC) Manager for this effort. Jim has 34 years of in-depth experience with multi-disciplinary and complex projects. He is well versed at managing technical teams on project specific infrastructure projects such as the Pipeline Safety Enhancement Plan across 12 counties for the Southern California Gas Company and environmental compliance for construction of a 153-mile, 500-kV Southern California Edison transmission line, as well as projects/task orders issued under Psomas' on-call contracts, namely Los Angeles County Public Works Water Resources Branch and Metropolitan Water District of Southern California Environmental Planning Services.

Psomas has processes in place that will support our delivery of high quality, technically sound documents. The team members assigned to this contract are among the most experienced environmental compliance professionals in Southern California, and all are Psomas staff—the depth of our bench allows us to provide the most commonly required services without needing to add subconsultants to our team.

Jim Hunter, as Vice President of Psomas, is authorized to legally bind Psomas to a contract with IRWD. Again, we appreciate the opportunity to submit the enclosed proposal. Please feel free to contact us with any questions at 714.751.7373 or [Jim.Hunter@Psomas.com](mailto:Jim.Hunter@Psomas.com), or [Jennifer.Marks@Psomas.com](mailto:Jennifer.Marks@Psomas.com).

Sincerely,

**PSOMAS**

  
Jim Hunter  
Vice President

  
Jennifer Y. Marks  
Senior Project Manager

3 Hutton Centre Drive  
Suite 200  
Santa Ana, CA 92707

Tel 714.751.7373  
[www.Psomas.com](http://www.Psomas.com)

# INTRODUCTION

## Firm Profile

Dedicated to balancing the natural and built environment, Psomas provides sustainably engineered solutions to public and private clients. Psomas, a California Corporation, was founded in 1946 and is a multi-faceted consulting firm with over 600 employees, providing our core services of environmental consulting, civil engineering, survey and mapping, and construction management. While the firm as a whole offers a wide variety of services, Psomas' Environmental Services Group is capable of supporting the needs that are most relevant to the Irvine Ranch Water District's (IRWD's) On-Call California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA) contract. Psomas' Environmental Services Group specializes in providing the following services:

- CEQA and NEPA documentation
- Air Quality and Greenhouse Gas (GHG) Emissions Analyses
- Energy Analyses and Health Risk Assessments
- Noise and Vibration Studies
- Cultural Resources including Archaeological and Paleontological Assessments, Monitoring, and Tribal Cultural Coordination
- Biological Resources Surveys and Assessments
- Jurisdictional Evaluations/Delineations, Regulatory Permitting, and Agency Coordination
- Habitat Restoration/Mitigation Planning, Monitoring, and Reporting

Psomas' goal is to establish long-lasting, positive, and productive working relationships with our clients. Our project management style is rooted in our commitment to provide accurate and comprehensive consulting services; timely and cost-effective reports and documents; and regulation compliant document processing.

## RESPONSE TO RFP ITEM II. SCOPE OF WORK

### Project Understanding and Approach

In our experience with on-call contracts for public agencies, the environmental documentation requirements for a "typical project" can vary extensively. Psomas' Environmental Services Group specializes in the preparation of documentation pursuant to CEQA and NEPA for lead agencies throughout Southern California. While specific CEQA requirements are clear according to the State law and NEPA requirements are defined

specifically by each NEPA lead agency, there is some latitude and interpretation that is generally required in determining the level of analysis that is appropriate for a project. Through our years of experience and breadth of project work, Psomas is able to interpret the laws and apply them to a specific project while successfully navigating and adhering to sometimes competing federal, State, and local statutes, codes, ordinances, policies, and procedures. Our knowledge of technical issues, applicable regulations, and entitlement and regulatory processes allows Psomas to provide responsive, practical, and solution-oriented advice to our clients. Additionally, our interaction with Psomas' engineering practice, which has overseen the development, design, permitting, construction, and operation of hundreds of potable water, recycled water, and wastewater infrastructure projects throughout the southwestern United States, allows us a unique understanding of how to assess the impacts specific to water and wastewater projects.

The Psomas Team is capable not only of providing comprehensive CEQA and NEPA documentation services (as noted below in Tasks 1 and 2), but can also provide stand-alone technical reports to support project analysis and/or technical reports, including general and focused biological assessments; construction monitoring for sensitive habitat areas and/or sensitive species located within or adjacent to project areas; Tree Surveys; Habitat Conservation Planning; Wildlife Movement Corridor Studies; Noise Assessments; Air Quality Assessments; Greenhouse Gas Emissions Analyses; Energy Analyses, Cultural Resources including Archaeological and Paleontological Assessments; Tribal Cultural Resources, water quality management plans; and storm drain, sewer, and water capacity studies. We also coordinate resource agency permitting and procurement as well as Natural Community Conservation Plan (NCCP)/Habitat Conservation Plan (HCP) compliance.

The task discussions below are representative of the work efforts that would be included in the preparation of environmental documentation as noted in the RFP for CEQA (Negative Declaration [ND], Mitigated Negative Declaration [MND], and Addenda) and NEPA (Environmental Assessment [EA] and Finding of No Significant Impacts [FONSI]).

### Task 1: California Environmental Quality Act

Psomas understands the inherent complexities of processing projects through the CEQA process. If a project is not analyzed in a comprehensive manner and if impacts to sensitive land uses and adjacent jurisdictions are not considered, future projects have the potential to present opportunities for legal challenges against the CEQA documentation and supporting technical analyses. Psomas has an excellent track record of

preparing thorough CEQA documents that are capable of withstanding legal challenges. All environmental documentation will be prepared in conformance with the criteria, standards, and procedures of CEQA (California Public Resources Code, Sections 21000 et seq.), the State CEQA Guidelines (Title 14, California Code of Regulations, Chapter 3, Sections 15000 et seq.), and IRWD procedures. However, compliance with CEQA is only one component to ensuring the preparation of a legally adequate document.

Navigating through the CEQA process is a complex endeavor due to new and constantly changing regulations, court rulings, and legislation. While not every project is complicated, nor will they all be litigated, Psomas works to ensure that every CEQA document and technical report we prepare reflects all applicable rules, regulations, and appropriate legal interpretations. Due to the changes and updates in regulations, CEQA rulings, and legislation, we routinely revisit our documents that are in process to ensure their consistency with all legal and regulatory updates. This practice ensures compliance with all pertinent provisions of CEQA as well as a document's legal defensibility, if challenged.

When preparing an environmental document pursuant to CEQA, typical activities performed would include, but are not limited to, the tasks listed below.

#### **Project Initiation/Project Study**

**Sessions:** The project initiation effort will involve coordination between Psomas and IRWD staff to define the scope of services required for assigned work requests. Psomas strives to work closely with clients to ensure that project designs are conceived in a manner that minimizes environmental impacts before starting the CEQA process. Projects that are designed to avoid or minimize impacts to sensitive uses and resources can engender a sense of confidence from the community and special interest groups. Psomas will strategize with staff to ensure that all CEQA and regulatory permitting environmental issues are considered early in the process. Upon reviewing a proposed project description, Psomas will coordinate with the IRWD Project Manager to develop an appropriate Task Order Scope of Work that addresses the proposed project; existing environmental documentation and commitments; the appropriate type of environmental documentation and level of analysis required; and project permitting requirements. Psomas' involvement on projects may continue through participation in regularly scheduled project development



team meetings so team members can stay up-to-date with project development.

Although not required for an ND, MND, or Addendum, Psomas will be available to participate in public meeting efforts. The total timeframe required to complete the environmental documentation process can be significantly affected by the concerns and/or input expressed by local residents, businesses, State and federal agencies, environmental interest groups, and the interested community-at-large. For some projects, workshops, meetings, and/or targeted outreach efforts may be appropriate to provide a forum for meaningful community input and to instill the public with a sense of “partnering” and “ownership” in the process. The assigned Psomas project management team members are professionals who are able to effectively facilitate public meetings and conduct presentations on the environmental process and/or required technical analyses. At the request of IRWD, Psomas will attend and participate in scoping meetings to facilitate the environmental review process. Psomas will also prepare a meeting summary that discusses how each issue will be addressed in the CEQA document.

**Documents/Project Research:** Psomas maintains access to a variety of information sources covering the IRWD service area, including local and regional planning documents, GIS databases, web-accessible databases, previous environmental documents, and reference documents. Psomas team members also have experience and established relationships from working on projects for 24 years in Orange County, specifically including jurisdictions within IRWD's service area. If an answer is not immediately available, the project team members are available to consult with peers

and other contacts to obtain additional information at IRWD's direction.

#### **Administrative Draft Environmental Document:**

Psomas has the expertise to support IRWD on a full range of technical evaluations required to support environmental document preparation. Psomas, using the State CEQA Guidelines' environmental checklist, will prepare a draft Initial Study (IS). The analysis will be based on all available technical information, including any background planning documents, previous environmental documentation in the area, and project-specific technical studies. Existing conditions will be described in narrative, numerical, and graphic form, as appropriate to a particular issue. Potential impacts will be identified on an individual and cumulative basis, as appropriate. Mitigation Programs—including Project

Design Features (PDFs), Standard Conditions (SCs), and Mitigation Measures (MMs)—will be proposed to reduce impacts to levels considered less than significant to the extent feasible. Focused and strategic interaction with staff and other project team members will ensure that the environmental documentation and technical reports comprehensively address the potential impacts that might result from project implementation.

The IS can be used as a preliminary tool to determine the appropriate level of documentation based on the presence or absence of impacts that cannot be mitigated to less than significant levels. Should it be determined that no potentially significant and unavoidable impacts would occur, Psomas will recommend the preparation of an ND or an MND. After the Administrative Draft IS is completed, it will be submitted for IRWD review. Following receipt of IRWD comments on the IS, Psomas will revise the document and complete the necessary documentation for an ND or MND.



Should the findings in the IS suggest the potential for a significant and unavoidable impact, preparation of an Environmental Impact Report (EIR) will be required. Psomas will present this recommendation along with all supporting documentation to IRWD for consideration. It is understood that a separate request for proposals would likely be issued at this point.

Section 15164 of the State CEQA Guidelines provides for the preparation of an Addendum to a Final EIR if none of the conditions described in Section 15162 calling for the preparation of a Subsequent EIR have occurred. Though the State CEQA Guidelines do not establish a format for an addendum, for projects where it has been determined that an addendum to a previously approved or certified CEQA document is the appropriate document, Psomas has found that an effective approach is to have the addendum follow a similar format as previously identified for an IS. The analysis would be based on the environmental checklist from Appendix G of the State CEQA Guidelines. In the case where an addendum is being prepared for a project which is a component of a larger project that was addressed in a previous Program EIR, a summary of the previous analysis will be provided for each environmental topic and the mitigation program will reiterate applicable project design features, regulatory requirements, and mitigation measures from the original environmental document. Additionally, following the project-specific analysis, an overall statement identifying the proposed project's consistency with the previous

analysis will be made. The advantage of an addendum is that the process can be streamlined as State CEQA Guidelines does not require additional public review.

**Screencheck Draft and Public Draft Environmental Document:** Once the comments on the Administrative Draft document from both IRWD and their peer reviewer have been addressed, Psomas will submit a Screencheck Draft document for IRWD review. At this time, Psomas and IRWD staff may decide to meet to review the document. At the meeting, the document can be reviewed and any required changes made during the meeting, streamlining the review of the final “proof check” document during the meeting.

For an ND or MND, Psomas will be responsible for coordinating document reproduction, distribution, and noticing pursuant to CEQA. Consistent with IRWD's direction, document reproduction will be primarily on CD or flash drive to minimize the number of print copies. We will also provide the

environmental document and technical appendices in a web-ready format for IRWD's use.

For an addendum to a previous environmental document, public review is not required; therefore, Psomas will prepare an addendum for use and approval by IRWD. As noted above, document reproduction will be on CD and the addendum will be available in a web-ready format for IRWD's use.

**Response to Comments and Final Environmental Document:** If any public comments are submitted on an ND or MND, Psomas will work with IRWD and the project team to develop appropriate and defensible responses. Topical responses may be used if multiple comments are received on the same issue. The responses to comments document will be revised and finalized upon receipt of IRWD comments. Psomas will prepare a Final MND, which may include the responses to comments document, the Mitigation Monitoring Program (discussed below and under Task 7, Mitigation Monitoring and Reporting), and, if applicable, any revisions or clarifications to the text of the ND or MND.

For an addendum, public review is not required, and a response to comments document would not be produced. Should any revisions be recommended through the approval process, Psomas will revise the Addendum and submit the Addendum for IRWD use.

**Mitigation Monitoring Program:** Psomas will develop a Mitigation Monitoring Program based on IRWD's

preferred format, and will clearly identify all components of the Mitigation Program, responsible parties, and a timeframe for implementation. Implementation of the MMP is further discussed under Task 7, Mitigation Monitoring and Reporting.

**Attendance at Public Hearings:** As discussed previously under Project Initiation/Project Study Sessions, Psomas is able to coordinate public meetings. Psomas team members are skilled at conducting project-related presentations for decision-makers at public workshops and hearings; providing helpful technical responses and clarifications; and providing general support for IRWD staff. We will be available to attend and participate in any public meetings for consideration of the environmental document.

**Noticing Requirements:**

Psomas will be responsible for all aspects of project noticing, including notice preparation, coordination of newspaper publications, and payment of all applicable filing fees.

**Task 2: National Environmental Policy Act**

Similar to the process identified above for CEQA, Psomas is also experienced in preparing thorough NEPA documents that are capable of withstanding legal challenges for a variety of federal agencies. All environmental documentation will be prepared in conformance with the criteria, standards, and procedures of NEPA (Title 42 United States Code [USC], Sections 4331 et seq.) and specific NEPA guidance as set forth by individual agencies. CEQA and NEPA are similar in the intent to analyze environmental impacts and in the review process which involves analysis, public involvement, and document preparation. NEPA applies to “proposals for legislation and other major Federal Actions” (42 USC 4332[2][c]). NEPA also applies when an agency exercises authority over a non-federal project with a federal nexus (i.e., federal decisions on approvals, permits, or funding).

Similar to the process identified previously for preparation of an IS and ND or MND pursuant to CEQA, Psomas will prepare an EA leading to a FONSI or Mitigated FONSI pursuant to NEPA. Document preparation will follow the same basic process as the CEQA documentation with (1) preparation of an Administrative Draft EA that will be subject to review by IRWD and its peer reviewer; (2) preparation of a Screencheck Draft document; (3) preparation of a Draft EA for Public Review; and (4)

preparation of the final EA/FONSI. However, because the NEPA process will involve a separate lead agency (i.e., the federal agency with oversight on the project), additional review cycles may be required prior to preparation of the Draft EA for Public Review and preparation of the final EA/FONSI. As noted previously, specific document preparation and review requirements vary depending on the federal lead agency. Psomas has experience working with a variety of federal lead agencies and will contact the federal lead agency early in the process to determine the anticipated schedule and to develop a scope of work addressing each key milestone.

Due to the wide availability of financial assistance via a variety of grants associated with water projects, it is acknowledged that IRWD may pursue funding via a federal grant program, such as WaterSMART or other grants available through the Clean Water State Revolving Fund (CWSRF). Because the CWSRF Loan, administered through the State Water Resources Control Board (SWRCB), is partially funded by the U.S. Environmental Protection Agency (USEPA), any project receiving these funds would be considered a federal action subject to federal regulations in addition to CEQA. The SWRCB developed CEQA-Plus requirements to streamline



environmental documentation and review for projects receiving CWSRF financing. In these cases, preparation of CEQA-Plus (also known as federal Cross-Cutters) documentation would be sufficient to allow federal lead agency compliance with NEPA, and Psomas will prepare an “Environmental Package” pursuant to the CEQA-Plus regulations, including specific analysis related to the Clean Air Act, the State and federal Endangered Species Acts, the Migratory Bird Treaty Act, and the National Historic Preservation Act.

Psomas also has experience preparing NEPA documentation for projects under the jurisdiction of the Federal Highway Administration (FHWA). In these cases, Psomas will coordinate with the local California Department of Transportation (Caltrans) District, as delegated by FHWA, and will prepare documentation specific to Caltrans requirements as set forth in the Standard Environmental Reference.

### Task 3: Staff Rates

Hourly rates for staff members proposed are listed below. Additional field staff for Regulatory, Biological, Habitat Restoration, and Cultural Resources services are available for task orders as-needed, but would not be assigned without prior written approval from IRWD.

STAFF RATES		
Key Personnel	Contract Role/Title	Hourly Billing Rate
Psomas		
Jim Hunter, ENV SP	Principal-in-Charge, QA/QC Manager	\$268
Jennifer Marks	Project Manager	\$220
Megan Larum	Assistant Project Manager	\$118
Michael Milroy	Environmental Planner/ Noise Technician	\$123
Daria Sarraf	Environmental Planner/ Air Quality/GHG Specialist	\$139
Tin Cheung	Air Quality, GHG, and Noise Manager	\$220
Amber Heredia	Biological Resources Manager	\$193
Brad Blood, PhD	Senior Regulatory Specialist	\$207
Allison Rudalevige	Regulatory Specialist/ Senior Botanist/ Restoration Biologist	\$137
Lindsay Messett	Senior Wildlife Biologist	\$139
Jonathan Aguayo	Senior Wildlife Biologist/ Restoration Biologist	\$137
Charles Cisneros, MS, RPA	Senior Archaeologist	\$152
Kassie Sugimoto	Archaeologist	\$118
Melissa Macias	Paleontologist	\$113
Michael Deseo	GIS Technician	\$145
Robert Becker	GIS Technician	\$102

REIMBURSABLE COSTS	
Item	Rate
Mileage	Federal Standard Mileage Rate
Reprographics (Outside)	at cost plus 10%
Reprographics (Inside)	Request Printing fee sheet
Other Out-of-Pocket Expenses	at cost plus 10%
Subconsultants	at cost plus 10%
Plotting: Color Bond	\$1.50 per square foot
Plotting: Color Photo Gloss	\$2.50 per square foot
Aerial Maps: Fewer than 500 acres	\$200
Aerial Maps: 500–1,500 acres	\$350
Aerial Maps: Greater than 1,500 acres	\$500

### Task 4: Project Task Item Estimates

The approach Psomas takes on all assignments emphasizes excellence. This is accomplished by committing staff members who have appropriate expertise and by incorporating specific key elements into all of our projects, as discussed below. It is through this approach that we are able to ensure delivery of an outstanding product that reflects the high standards that IRWD maintains.

Psomas understands that good communication requires a level of transparency with our clients regarding schedule and budget. In order to present an accurate picture of the project schedule and budget to IRWD on a regular basis, the Psomas management team will actively track each project's progress through our in-house management software, allowing us real-time project statistics. With this information, our management team can quickly make the necessary adjustments to reallocate resources and make any necessary reassignments to ensure schedules are met and budgets are not exceeded. Our commitment to schedule and budget has been demonstrated through our past work with IRWD, including the recent Zone A to Rattlesnake Reservoir Pump Station Initial Study/Mitigated Negative Declaration (IS/MND) as well as through our extensive experience with other clients. Psomas is known among our clients for our client responsiveness and attention to detail, which is demonstrated by the number of long-term clients and On-Call/As-Needed Environmental Services contracts we have maintained with public sector agencies. We have established long-term relationships with clients, some for over 20 years, for various services and work products ranging from specialized technical reports for small development projects to the preparation and processing of EIRs for large complex development and infrastructure projects. Psomas understands that every project is important and is willing to jump in with both feet to do what needs to be done to successfully complete a project; this strategy allows our clients to focus on their work and be successful at what they do.

Following is a list of some of our key long-term water, utility, and public works clients for which we are currently providing As-Needed or On-Call Consultant Services, with the total years of service for each client indicated in parenthesis:

- City of Anaheim Public Utilities Department (16 years)
- City of Anaheim Public Works Department (16 years)
- County of Orange (24 years)
- Eastern Municipal Water District (1 year)
- Los Angeles County Public Works (24 years)
- Metropolitan Water District of Southern California (9 years)
- OC Parks (5 years)

- Orange County Transportation Authority (10 years)
- Orange County Water District (10 years)
- Riverside County Flood Control and Water Conservation District (5 years)
- Sanitation Districts of Los Angeles County (.5 years)
- Santa Margarita Water District (22 years)
- South Coast Water District (3 years)
- Southern California Edison Company, Eastern Hydro Division (21 years)

Under these contracts Psomas has provided scopes of services, estimated costs, and schedules for hundreds of individual projects. Each scope, cost, and schedule is prepared to fulfill our clients' needs by providing cost- and time-efficient services that meet the project objectives without burdening projects with unnecessary or superfluous tasks.

With 16 professional staff members dedicated to this contract, Psomas will be able to meet the demanding schedules of concurrent assignments. While each of the key staff members will have other company-wide project responsibilities, we ensure that each team member will have adequate availability to meet the assigned project's requirements. We are careful not to commit 100 percent of any staff member's time, thereby ensuring availability of qualified staff to fulfill all tasked and scoped responsibilities.

### **Task 5: Team Experience**

Psomas believes that our approach to fulfilling the required management for future IRWD projects is best met by appointing Jennifer Marks as Project Manager—who will operate as the day-to-day manager and primary contact with IRWD and other team members—and Jim Hunter, ENV SP, as Principal-in-Charge and Quality Assurance (QA)/Quality Control (QC) Manager. Brief biographies are provided below for Jennifer and Jim.

Complete resumes, including years of experience, education, special knowledge and skills, pertinent permits, and brief descriptions of relevant project experience for all key staff members can be found in Attachment B. An organization chart is provided on the following page depicting the reporting structure for Psomas' full team.

#### **Jennifer Marks | Project Manager**

Jennifer Marks is a Senior Project Manager with 21 years of experience in the preparation of environmental documentation and analysis consistent with CEQA and NEPA for water districts; various public utilities; local planning and development departments; and independent developers. In addition, she has served as Project Manager for As-Needed contracts for IRWD; the City of Anaheim for the Public Utilities, Public Works Department; Metropolitan Water District; Eastern

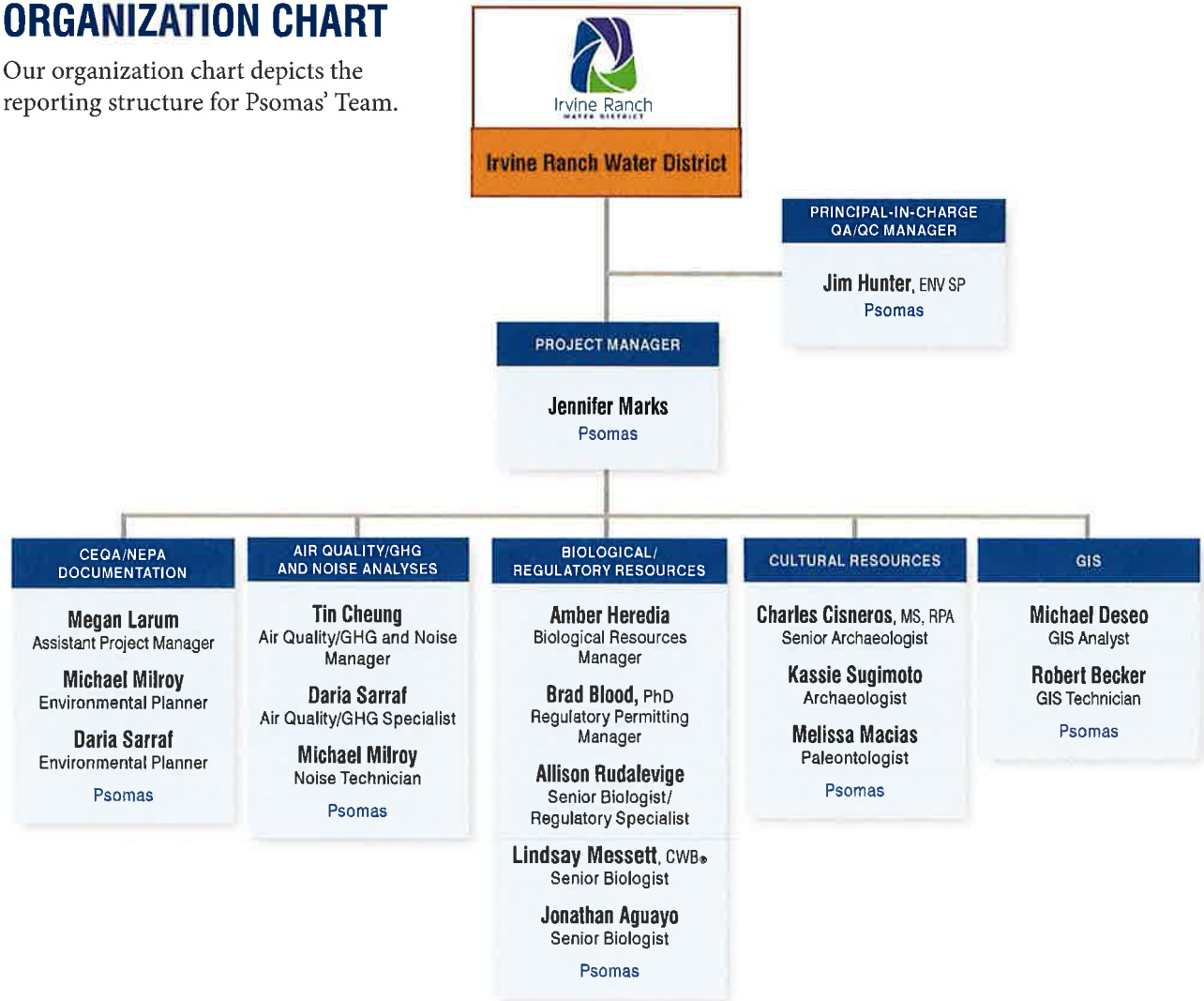
Municipal Water District; and Project Manager for specific work for Metropolitan Water District through our prime contract and the Water Replenishment District of Southern California as a subconsultant to Hazens & Sawyer. Throughout her career, she has worked directly with a variety of interested and affected parties including U.S. Army Corps of Engineers (USACE); U.S. Fish and Wildlife Service (USFWS); California Department of Fish and Wildlife (CDFW); California Department of Transportation (Caltrans); USEPA; SWRCB; and U.S. Bureau of Reclamation (BOR). In addition to managing planning, development, and infrastructure projects, she has performed impact analyses for many environmental resource issue areas, including water resources, biology, air quality, noise, traffic, land use, aesthetic resources, geology, historic and cultural resources, and hazards and hazardous materials. Jennifer will serve as IRWD's primary contact and will manage preparation of and serve as the technical lead for all environmental documentation. She will coordinate Psomas' wide range of in-house technical staff; oversee and review individual assignments; and ensure the delivery of quality work products on schedule and within cost constraints.

#### **Jim Hunter, ENV SP | Principal-in-Charge and QA/QC Manager**

Jim Hunter will serve as Principal-in-Charge and QA/QC Manager for the Psomas Team. Jim is able to bind Psomas to the contract and will provide oversight support and strategic problem-solving consultation, while also managing the consultant team, as needed, to ensure established diversity goals are met. He has 34 years of experience providing strategic land use entitlement, environmental, and regulatory compliance services to private industry, municipal, and utility clients in Southern California. Key experience includes assembling and leading high performing teams in the areas of CEQA and/or NEPA environmental review and permitting; pre-construction planning; and construction compliance monitoring for major land development and capital infrastructure across Southern California. Jim's experience with multi-disciplinary and complex projects includes serving as Principal-in-Charge and Contract Manager for multiple On-Call contracts including Los Angeles County Public Works Water Resources Branch and Metropolitan Water District of Southern California Planning Services, as well as project specific work for a Pipeline Safety Enhancement Plan across 12 counties for Southern California Gas Company; environmental compliance for construction of a 153-mile, 500-kV Southern California Edison transmission line; an EIR/EIS for a major Port of Long Beach container terminal; CEQA/NEPA and permitting approvals for a 2,304-bed correctional facility in rural Kern County; and

# ORGANIZATION CHART

Our organization chart depicts the reporting structure for Psomas' Team.



## Team Availability

The table below show that estimated percentage of time each alphabetically listed staff member would have available to commit to IRWD-assigned tasks. Psomas is committed to devoting the staff resources necessary in a timely matter to ensure exceptional client service. We are highly qualified in providing On-Call Environmental Services to public agencies and are careful to ensure key staff members are available for the On-Call Contract as needed to fulfill any schedule demands that may arise. As noted in Task 3, additional field staff for Biological and Regulatory Services and Cultural Resources services are available for task orders as needed and pending IRWD approval.

Key Personnel	Availability	Key Personnel	Availability
Jonathan Aguayo	30%	Megan Larum	75%
Robert Becker	15%	Melissa Macias	50%
Brad Blood, PhD	15%	Jennifer Marks	65%
Tin Cheung	15%	Lindsay Messett, CBW	30%
Charles Cisneros, MS, RPA	40%	Michael Milroy	30%
Michael Deseo	15%	Allison Rudalevige	30%
Amber Heredia	30%	Daria Sarraf	30%
Jim Hunter, ENV SP	15%	Kassie Sugimoto	50%



various projects for water and wastewater utilities across Southern California.

### **Task 6: Project Coordination**

Psomas understands that each client is different and that each project is unique with respect to environmental concerns and public interest; as such, we tailor our plans for communication and coordination accordingly. A typical project with IRWD is expected to require regular, weekly communication via email and phone calls to ensure that all project components are progressing. The Psomas team will make a concerted effort to ensure that expectations are clearly defined and met without compromise; that miscommunication and misunderstandings are minimized; and that concerns are addressed at the earliest possible point in the process. As key milestones approach, the frequency of communication is expected to increase to keep the project moving forward.

Psomas has historically assumed the role of both consultant and subconsultant on a variety of projects. Depending on the assigned task, Psomas will assume either a primary project management role and be responsible for the management of a project team or will serve as a member of a larger team and take direction from another party, as directed by IRWD. Due to our extensive experience throughout Southern California, Psomas has positive working relationships with a number of consulting, architectural, and engineering firms and we look forward to the chance to collaborate with peers in these fields.

### **Task 7: Mitigation Monitoring and Reporting**

As noted previously under Task 1, Psomas will prepare a Mitigation Monitoring Program (MMP) to identify all components of the Mitigation Program, including mitigation measures, responsible parties, and a timeframe for implementation. Psomas understands the elements necessary for a solid, measurable mitigation measure and works to ensure that the measures identified during the CEQA/NEPA environmental documentation process meet these criteria. The benefits of a well-written mitigation measure are most evident during execution in the field when clarity is of the utmost importance. While implementing a well-written mitigation measure is the ideal scenario, we are faced with measures that lack clarity from time to time, especially when implementing

measures that were drafted by a third party. However, because members of the Psomas Team have an understanding of what comprises a sound mitigation measure based on our experience in writing mitigation programs, we can make necessary and educated interpretations as needed to keep project implementation compliant and moving forward.

Pursuant to Section 15097(a) of the State CEQA Guidelines, “a public agency may delegate reporting or monitoring responsibilities to another public agency or private entity . . .” Psomas will assume the role of mitigation monitoring and reporting on behalf of IRWD and will designate a key person to ensure that all mitigation is completed consistent with the intent of the original measure. Psomas includes specialists that are capable of conducting necessary monitoring tasks related to the full range of environmental issues, including air quality, biological resources, habitat restoration, cultural resources, hydrology and water quality, noise, and traffic. Successfully documenting the completion of mitigation efforts conducted on a project sometimes makes the difference between compliance and non-compliance. Psomas has extensive experience monitoring and overseeing these efforts but, more importantly, Psomas has a long history of good communication among all parties on the project team. When in the field during project implementation, rectifying potential incidents prior to non-compliance events is a team effort that is best led by experienced environmental monitors. Furthermore, appropriately reporting compliance and remedial efforts requires knowledgeable staff using relevant terminology. In addition to Psomas’ experience coordinating with project teams, Psomas has extensive experience communicating and coordinating with local regulatory agencies, including the USACE, Regional Water Quality Control Board (RWQCB), CDFW, California Coastal Commission (CCC), U.S. Fish and Wildlife Service (USFWS), and others.



## Task 8: References

Psomas' Environmental Services Group has completed several CEQA/NEPA task orders for IRWD via two consecutive on-call services contract. The following is a list to date of work completed and ongoing along with key IRWD staff.

Project Title and Description	IRWD Project Staff Members
<p><b>Zone A to Rattlesnake Reservoir Pump Station IS/MND (ongoing)</b></p> <p>Psomas prepared an IS/MND for the replacement of the existing Rattlesnake Reservoir Pump Station No. 2 with a new Zone A to Rattlesnake Reservoir Pump Station at the Rattlesnake Reservoir Complex. Psomas' scope of work included a biological survey, a cultural resources records search, air quality and GHG modeling, energy analysis, additional environmental analyses, and preparation of the CEQA document (MND). Psomas also managed the public distribution process for IRWD, including publishing the public notice in the local newspaper. The IS/MND is currently being reviewed by agencies and members of the public. Once the comment period ends, Psomas will manage the response to comments process and prepare a Final IS/MND for IRWD's use.</p>	<ul style="list-style-type: none"> <li>• Jo Ann Corey, Environmental Compliance Specialist</li> <li>• Richard Mori, Principal Engineer</li> <li>• Jacob Moeder, Engineer</li> </ul>
<p><b>3.7 MG Zone 1 Reservoir IS/MND (March 2018)</b></p> <p>Psomas prepared an MND for the construction and operation of an above-ground 3.7 MG reservoir adjacent to an existing 15 MG Zone 1 Reservoir. As part of the project, additional improvements are proposed, including installation of inlet/outlet, overflow, and drain piping; valve and drain vaults; new valves; roof hatches; and a reservoir management system. Psomas' scope of work included a biological survey, a cultural resources site survey, air quality and GHG modeling, additional environmental analyses, and preparation of the CEQA document (MND). As part of the environmental process, Psomas prepared a visual analysis based on a thorough walk-through of the surrounding properties and photo-documentation of views from surrounding land uses. Psomas also managed the public distribution process for IRWD and prepared responses to comments for consideration by the Board.</p>	<ul style="list-style-type: none"> <li>• Jo Ann Corey, Environmental Compliance Specialist</li> <li>• Fiona Sanchez, Director of Water Resources</li> <li>• Kellie Welch, Water Resources Manager</li> <li>• Richard Mori, Principal Engineer</li> <li>• Joseph McGehee, Engineer</li> <li>• Toni Lynch, Assistant Engineer</li> </ul>
<p><b>Irvine Lake Pipeline (ILP) North Conversion Project: Santiago Hills C + Reservoir</b></p> <p><b>Cultural Resources Monitoring Report (June 2017)</b></p> <p><b>California Gnatcatcher Survey (October 2016)</b></p> <p><b>Burrowing Owl Survey (October 2016)</b></p> <p>Psomas provided biological and cultural monitoring for the ILP North Conversion Project at the Santiago Hills C+ Reservoir, Orchard Hills, and Rattlesnake Complex sites. The monitoring included conducting gnatcatcher/cactus wren surveys, biological monitoring for clearing of coastal sage scrub, conducting pre-construction burrowing owl surveys, and performing archaeological and paleontological resources construction monitoring.</p>	<ul style="list-style-type: none"> <li>• Jo Ann Corey, Environmental Compliance Specialist</li> </ul>
<p><b>ILP North Conversion Project: Baker Raw Water Pumping Station</b></p> <p><b>Special Status Plant Surveys (June 2017)</b></p> <p><b>Coastal California Gnatcatcher Survey (June 2017)</b></p> <p>Psomas conducted biological surveys for the ILP North Conversion Project at the Baker Raw Water Pumping Station. Surveys included three special status plant surveys and three coastal California Gnatcatcher surveys. Upon completion of the survey work, the reports were transmitted to the U.S. Fish and Wildlife Service.</p>	<ul style="list-style-type: none"> <li>• Jo Ann Corey, Environmental Compliance Specialist</li> </ul>

Project Title and Description	IRWD Project Staff Members
<p><b>ILP North Conversion Project IS/MND (December 2015)</b></p> <p>Psomas prepared an IS/MND for the ILP North Conversion Project. The project proposed the conversion of a segment of the ILP from untreated water to recycled water and all associated improvements to the IRWD water distribution system required to accommodate this conversion. The project also proposed improvements and modifications to several IRWD facilities in the cities of Orange and Irvine. In addition to preparation of the IS/MND for the project, Psomas prepared the air quality analysis, a biological resources assessment, cultural resources assessment, a greenhouse gas analysis, and a noise assessment pursuant to CEQA requirements. A portion of the project site is located in the Central-Coastal Subregion of the Natural Communities Conservation Plan/Habitat Conservation Plan (NCCP/HCP); IRWD is a participating jurisdiction and is subject to the terms of the NCCP/HCP Implementation Agreement. Therefore, the Biological Resources Assessment addressed compliance with the Central-Coastal NCCP/HCP. Additionally, because the project would qualify for grant funding, Psomas coordinated with the U.S. Department of the Interior Bureau of Reclamation to define any additional environmental documentation requirements and completed the additional work pursuant to CEQA-Plus.</p>	<ul style="list-style-type: none"> <li>• Jo Ann Corey, Environmental Compliance Specialist</li> <li>• Fiona Sanchez, Director of Water Resources</li> <li>• Kellie Welch, Water Resources Manager</li> <li>• Richard Mori, Principal Engineer</li> <li>• Joseph McGehee, Engineer</li> <li>• Jacob Moeder, Engineer</li> </ul>

In addition to work performed for IRWD, Psomas has similar relevant experience with other water districts and agencies throughout Southern California. A complete description of these projects is provided in Attachment B, Relevant Project Descriptions.

Additionally, Psomas has provided a letter of recommendation from the Eastern Municipal Water District that speak to Psomas’ technical expertise, responsive service, and budget and schedule compliance. This letters is provided in Attachment C, Letters of Reference.

**ADDITIONAL ITEMS**

**Joint Venture**

Psomas will not engage in a Joint Venture nor is it using subconsultants for this On-Call Contract. Psomas has the depth of expertise within its current staff to complete any and all work efforts associated with this On-Call contract within the IRWD’s budget and schedule requirements.

**Conflict of Interest**

Psomas has no conflicts of interest that would preclude our ability to uphold this contract.

**Contract**

Psomas has reviewed the professional service agreement and has no proposed modifications to the standard terms and conditions.

**Insurance**

Psomas insurance coverage for both professional liability and general liability meets the requirements stated in the RFP. ACORD certificates demonstrating current coverages are provided in Attachment D to this proposal. Psomas’ insurance certificates will be presented to IRWD upon contract award.

**ATTACHMENTS**

**Attachment A: Relevant Project Descriptions**

**Attachment B: Resumes**

**Attachment C: Letter of Reference**

**Attachment D: ACORD Insurance Forms**

# West Valley Feeder No. 1 Stage 3 Project Initial Study and Mitigated Negative Declaration

Los Angeles, CA

## OWNER/CLIENT

Metropolitan Water District of Southern California

## REFERENCE

Lilia Martinez  
(213) 217-5656  
lmartinez@mwdh2o.com

## DATES

4/2017 to 10/2018

## FINANCIAL SIZE

\$97,624.00

Psomas is preparing an Initial Study/Mitigated Negative Declaration (IS/MND) for the Metropolitan Water District's (Metropolitan's) West Valley Feeder No. 1 (WVF1) Stage 3 Project. The project site is located on approximately 0.46 acre within the north/northwestern portion of Chatsworth Park South where the San Fernando Valley floor borders the adjacent Simi Hills/Santa Susana

Mountains in the community of Chatsworth, in the City of Los Angeles, and the County of Los Angeles. Existing surrounding development is characterized by the Chatsworth Park South facility to the south and southeast, single-family residences to the east, and undeveloped hillside terrain within the Santa Susana Pass State Historic Park to the north and west. A railroad right-of-way (ROW) is located north of the project site, and informal multi-use trails are located throughout the project site and serve pedestrian, bicycling, and equestrian uses.

The purpose of the proposed project is to continue pipeline improvements implemented by Stage 1 and 2 of the West Valley Feeder No. 1 Valve Modification Project. The project would include modification of the WVF1. The existing valves were installed when the line was constructed in 1962 and no longer seal properly. Further, several of the valves were directly buried and cannot be accessed without excavating the pipeline. The project would include 1) replacing valves, 2) adding valve structures, and 3) improving access for maintenance and repairs to WVF1. The work was prioritized and divided into three stages over multiple shutdown seasons to minimize the duration of pipeline outages. The proposed project would include construction of a new patrol road to provide access to the mechanical structures associated with the WVF1 pipeline. The proposed access road, associated vehicle turnaround area, and access gates have been designed to accommodate a full-size maintenance truck (i.e., Ford F550 or equivalent) for operations, maintenance, and security.

Psomas conducted a biological survey for the project and worked with Metropolitan engineers to avoid impacts to key resources.



# Irvine Ranch Water District On-Call CEQA/NEPA Consultation Services

Irvine and Orange County, CA

## OWNER/CLIENT

Irvine Ranch Water District

## REFERENCE

Jo Ann Corey  
(949) 453-5362  
corey@irwd.com

## DATES

8/2014 to Present

## FINANCIAL SIZE

Varies by individual task order

Psomas has provided environmental services to the Irvine Ranch Water District (IRWD) since 2010 and we currently under contract to provide on-call services (this is our second on-call contract, which was awarded in August 2016; our first on-call contract was awarded in January 2014). Under our first On-Call Contract, Psomas prepared an Initial Study/Mitigated Negative Declaration (IS/MND) for

the Irvine Lake Pipeline North Conversion Project. The project would involve the conversion of a segment of the ILP from untreated water to recycled water and all associated improvements to the IRWD water distribution system required to accommodate this conversion. The proposed project involves improvements and modifications to several IRWD facilities in the cities of Orange and Irvine. A portion of the ILP from the Baker RWPS near the Peters Canyon Reservoir to the Rattlesnake Reservoir Complex would be converted to a recycled water line. The ILP North Conversion Project includes capacity for both existing and future planned untreated water demands. Project actions would include construction of a 2.4 MG recycled water reservoir as a partially buried circular tank and associated inlet and outlet structures; conversion of an existing booster pump station to allow for pumping of recycled water to two separate zones; reconfiguring an existing water facility to serve as a back-up source of recycled water; and construction of pipelines within existing roadways in the cities of Irvine and Orange.

In addition to preparation of the IS/MND for the project, Psomas prepared the air quality analysis, biological resources assessment, cultural resources assessment, greenhouse gas analysis, and noise assessment pursuant to CEQA requirements. Because the project would qualify for grant funding, Psomas coordinated with the U.S. Department of the Interior Bureau of Reclamation to define any additional environmental documentation requirements and completed the additional work pursuant to CEQA-Plus.



A portion of the project is located in the Central/Coastal Subregion of the Natural Communities Conservation Plan/Habitat Conservation Plan (NCCP/HCP) and IRWD is a participating jurisdiction and is subject to the terms of the NCCP/HCP Implementation Agreement. Therefore, the Biological Resources Assessment addressed compliance with the NCCP/HCP.





# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

10/2/2018

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

<b>PRODUCER</b> Dealey, Renton & Associates Lic. #0020739 10 Anton Blvd., Suite 100 Costa Mesa CA 92626	<b>CONTACT NAME:</b> ..	
	<b>PHONE (A/C, No, Ext):</b> 714 427-6810	<b>FAX (A/C, No):</b> 714 427-6818
<b>E-MAIL ADDRESS:</b> ..		
<b>INSURER(S) AFFORDING COVERAGE</b>		<b>NAIC #</b>
<b>INSURER A:</b> XL Specialty Insurance Co.		37885
<b>INSURER B:</b>		
<b>INSURER C:</b>		
<b>INSURER D:</b>		
<b>INSURER E:</b>		
<b>INSURER F:</b>		


**INSURED** PSOMAS  
 PSOMAS  
 555 South Flower Street, Suite 4300  
 Los Angeles CA 90071

**COVERAGES** **CERTIFICATE NUMBER:** 1200321118 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
<b>COMMERCIAL GENERAL LIABILITY</b> <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR  GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:						EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COMP/OP AGG \$ \$
<b>AUTOMOBILE LIABILITY</b> <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS						COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
<b>UMBRELLA LIAB</b> <input type="checkbox"/> OCCUR <b>EXCESS LIAB</b> <input type="checkbox"/> CLAIMS-MADE DED \$ RETENTION \$						EACH OCCURRENCE \$ AGGREGATE \$ \$
<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below						<input type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$
A Professional Liability Claims Made			DPR9932582	10/15/2018	10/15/2019	Per Claim \$2,000,000 Annual Aggregate \$2,000,000 Deductible \$100,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

<b>CERTIFICATE HOLDER</b>  DRAFT - FOR PROPOSAL USE ONLY * * * *	<b>CANCELLATION 30 Day Notice of Cancellation</b>  SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.  AUTHORIZED REPRESENTATIVE 
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## EXHIBIT "F"

# Cover Letter

January 30, 2020

Fiona M. Sanchez  
Director of Water Resources  
Irvine Ranch Water District  
1560 Sand Canyon Avenue  
Irvine, California 92618

**WATER RESOURCES**

**JAN 30 2020**

**IRVINE RANCH  
WATER DISTRICT**

**Subject: Request for Proposals: On-Call CEQA and NEPA Consultation**

Dear Ms. Sanchez,

We are pleased to provide the Irvine Ranch Water District (IRWD) with the following proposal for California Environmental Quality Act (CEQA) and National Environmental Protection Act (NEPA) consultation services. As a firm, Dudek specializes in water and wastewater engineering and project design, planning, and environmental compliance. As described in our proposal, Dudek believes we offer IRWD the following strengths:

**Local, Responsive Project Management.** Rachel Struglia, PhD, AICP, will serve as contract manager and the point of contact for IRWD. Dr. Struglia has performed multiple projects for IRWD and served as project manager for IRWD's previous on-call CEQA/NEPA contract in 2014-2016. She will direct a local staff of three project task managers to provide environmental support, as necessary. Joe Monaco, with his extensive water experience and 32 years of CEQA/NEPA compliance, will serve as Principal in Charge for this contract.

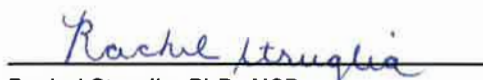
**On-Call Expertise.** We have more than 150 on-call contracts throughout the state that provide as-needed environmental services as well as mitigation monitoring and environmental compliance services. We have completed over 2,800 environmental documents in compliance with CEQA and NEPA, including dozens of recent water/wastewater-related projects.

**Diverse Technical Specialties.** As a medium-sized firm, Dudek is small enough for project managers to make nimble decisions and stay engaged with you from start to finish. We are large enough that our staff can tackle a spectrum of environmental and planning challenges. We have all the technical specialties needed for CEQA compliance in house.

The Dudek team is ready to mobilize on any upcoming IRWD project. We welcome any questions you have regarding our proposal and look forward to the opportunity to re-engage with IRWD. Please do not hesitate to contact Dr. Struglia directly at 949.373.8318 or rstruglia@dudek.com.

Sincerely,

  
Joseph Monaco  
President and CEO

  
Rachel Struglia, PhD, AICP  
Contract Manager



# 1. Scope

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## Scope of Work

The following scope of work is based on the tasks outlined in the Request for Proposals (RFP) and reflects a generalized approach to a water or wastewater project for the Irvine Ranch Water District (IRWD).

### Task 1: California Environmental Quality Act

Dudek has one of California's largest, most experienced teams for California Environmental Quality Act (CEQA) document preparation. Our environmental planners have prepared and processed more than 2,800 CEQA documents for a variety of large and small development, restoration, and conservation projects throughout the state. Combining comprehensive analysis and evidence-based findings, we provide legally defensible documents that are supported by substantial evidence, none of which have ever been successfully challenged. We conduct technically sound assessments and manage environmental review processes in a streamlined, compliant, and straightforward manner.

We produce complete CEQA documents done right the first time. Our environmental planners work with our in-house technical publications editors and graphic designers to prepare high quality documents that are clearly organized and easily interpreted by the public, agencies, and individuals responsible for future project development. We efficiently coordinate and prepare reports by utilizing our in-house technical experts in Orange County and across our southern California offices. Our team expedites complex project processing by designing and maintaining realistic document schedules, adhering to consistent communication protocols, leveraging our longstanding agency relationships, and anticipating potential issues as soon as possible. Additionally, our planners expertly serve as independent, neutral staff, often managing the environmental review process for agencies on a contract basis..

### Task 2: National Environmental Protection Act

Dudek is adept at successfully navigating infrastructure projects through the National Environmental Policy Act (NEPA). Dudek's qualified planning specialists have permitted projects ranging in scope from short distribution line rebuilds to 200-megawatt solar generation facilities. Our NEPA practice is led by Jonathan Rigg who has extensive experience working on infrastructure, transportation, and energy projects throughout the Western United States and with a wide-range of NEPA-lead agencies. Our team is well-versed in completing all levels of NEPA compliance documents—from Categorical Exclusions, Environmental Assessments/Findings of No Significant Impacts, CEQA-Plus documents, and Environmental Impact Statements/Records of Decision. Along with preparing defensible NEPA documents, our NEPA project managers are particularly skilled at coordinating the efforts of large interdisciplinary teams of resource specialists for preparing reports and permit documents within the overarching NEPA schedule. Dudek NEPA planning specialists are experts in applying and coordinating the appropriate level of public and agency outreach to meet the necessary requirements of federal and state regulations. Following final NEPA approval, Dudek's planners help transition the project to the compliance phase by developing a master list of all mitigation measures required by the final approval document and from all other land use and resource permit agencies.

### Task 3: Staff Rates

Staff rates are provided in Dudek's 2020 Rate Schedule that has been provided in **Section 5** of this proposal.

### Task 4: Project Task Item Estimates

Dudek experience in CEQA and NEPA compliance has been provided in **Section 3**.

## Task 5: Team Experience

Team experience is discussed in **Section 2** of this proposal.

## Task 6: Project Coordination

### Project Management Approach

Our project management philosophy for this contract will be based on our extensive project experience working with water districts throughout the firm's 40-year history. Drawing upon knowledge from these projects, our project managers make decisions that enable continuous forward project momentum with a focus on providing straightforward cost-saving solutions in a legally defensible manner. This proven approach involves the following:

#### Defined Lines of Communication

Effective project management requires detailed communication and among project participants. Dudek believes that effective project management comes when there is a continuous flow of information on a regular basis. Dr. Struglia will remain personally involved in any project she manages for IRWD. Working as a team with other technical discipline leaders, she will keep all task orders on schedule and within budget and will maintain the highest level of quality for all deliverables. She will communicate project status updates with other members of the consultant team and with the IRWD by doing the following:

- Serving as the single point of contact;
- Establishing regular meetings with IRWD staff to discuss project milestones and ongoing/future activities;
- Presenting project approaches to CEQA, with a recommendation that best suits IRWD's institutional culture (risk adverse, but cost conscious)
- Holding regular project management meetings with key project staff to coordinate work efforts, check on task completion, and review budget conformance; and
- Updating the project schedule, as necessary, so all team members are aware of information that may affect delivery of work products and the overall project schedule.

#### Project Management Tools

The management team will work together to meet these communication goals and keep the project on schedule and within budget by using the following:

- **Project Kickoff Meeting:** The Key project team members will attend a project kickoff meeting with IRWD staff. This meeting will be critical to the ultimate success of the project, as it provides an opportunity for all parties to discuss the project, review the scope, and formalize key assumptions.
- **Dedicated Lines of Communication:** After the kickoff meeting, Ms. Struglia will distribute a key contact list to all team members, identifying communication protocols and contact information.
- **Virtual Collaboration:** Dudek offers a number of tools to facilitate efficient, productive virtual collaboration as well, including file sharing/storage via ShareFile, document co-authoring that permits simultaneous document collaboration through SharePoint, client web portals that are custom-built for access via Dudek.com, virtual deliverables that are produced and uploaded to online portal(s), mobile data collection and reporting, and virtual meetings using Zoom Meetings.
- **Schedule and Budget Tracking:** The management team will use a schedule-tracking tool to meet important milestones for task orders issued under this contract. We use Deltek Vision to track all budget line items and deliver an accurate monthly balance.
- **Progress Reports:** Dr. Struglia will prepare regular progress reports that will include a list of tasks completed during the period, a list of tasks anticipated during the coming period, a project schedule update, a summary of the schedule, and any outstanding scope of work or information request issues.

## Quality Control

### Document Quality Assurance and Quality Control

Dudek's editorial and publications team will work closely with Dr. Struglia to apply the highest standards of quality to all IRWD deliverables. For a typical Dudek work product, the following process will be used:

- **Style Guide Development:** During the start-up phase of the project, the Dudek technical editing team will create a project-specific style guide to maintain consistency of terms and nomenclature used in project documents. This style guide will be in accordance with IRWD's standard formatting requirements and will be shared with IRWD before preparing project documents.
- **Technical Review:** An appropriate third-party technical reviewer will be assigned to all written work products. This step in the review process is focused on the legal adequacy and technical accuracy of all deliverables, and multiple reviewers may be used depending on the complexity of the document.
- **Editorial Review:** Once the technical review is complete, Dudek editors will conduct an editorial review of deliverables following the agreed-upon style guide. Prior to submittal to IRWD, each document will be formatted by Dudek's publications staff.
- **Document Production:** Dudek's publications production team verifies the quality of each formatted document before publication. Dudek's editorial team, in collaboration with the publications and information technology staff, will produce and publish the Web versions of project deliverables.

### Administrative Record

As a best practice, Dudek builds a thorough administrative record during the course of project development. During the writing process, the editor works closely with the writing team to catalogue references cited in an index, and collects and compiles all source material.

### Data Management

All data received by Dudek are cataloged in a master data intake database that is stored in a commonly accessible network location with other spatially related files and metadata files for management/control according to Dudek's Policy for geographic information system (GIS) Project Data Organization. All spatial data received will be reviewed for metadata and verified visually in the Environmental Systems Research Institute's ArcCatalog and ArcMap software. Dudek-generated data will undergo quality control checks for feature completeness, accuracy, and attribute value consistency, as well as appropriate metadata completeness.

## Task 7: Mitigation Monitoring and Reporting

As part of the environmental documentation preparation process for a project, Dudek will typically develop a Mitigation Monitoring and Reporting Program (MMRP) to be used by the project's compliance team during project implementation. Dudek has extensive experience in both preparing and implementing MMRPs. Our goal is to write MMRPs that provide a comprehensive, single document for the mitigation measures to be implemented to facilitate the achievement of the impact avoidance envisioned in CEQA documents. Dudek writes MMRPs that are easily accessible, functional, and provide a clear pathway for effective implementation. In addition, Dudek has an experienced compliance management team and roster of permanent and on-call monitors available to implement MMRPs should IRWD require assistance with the implementation of any MMRP.

## Task 8: References

As requested by the RFP, Dudek's history of project work with IRWD is presented in Section 3 of this proposal. Additionally, two letters of reference have been provided in **Appendix B**.

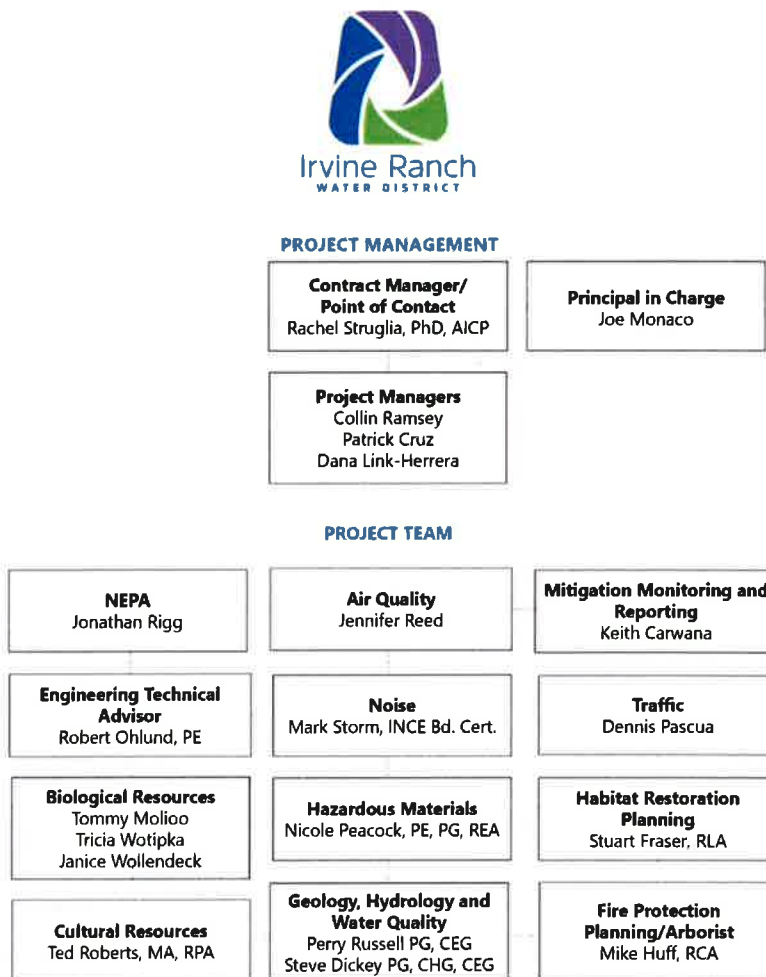
# 2. Team

## The Dudek Team

The Dudek team specifically chosen for this contract has the availability and capacity to provide services on upcoming IRWD projects. Dr. Rachel Struglia will serve as project manager and lead the team out of Dudek’s San Juan Capistrano location. Our selected team will promptly proceed with any new IRWD task order. Team members can commit substantial effort to the task when it is necessary for the success of a project. Dudek personnel will be committed to this contract, and no substitution of key team members will be made without prior written consent from IRWD.

**Figure 1** outlines proposed lines of communication for this contract, followed by brief biographies for key personnel. **Table 2** presents an at-a-glance look at qualifications and availability for the expanded team. Focused resumes are provided in **Appendix A**.

Figure 1. Dudek Team Organization



Project Team

Staff	Education	Experience
<p><b>Joe Monaco, AICP</b> Principal in Charge Availability: 5% Labor Category: Project Director Environmental</p>	<p>San Diego State University MCP, City Planning University of California (UC), Los Angeles BA, Geography/Business Emphasis</p>	<ul style="list-style-type: none"> <li>• More than 32 years' experience managing CEQA/NEPA compliance projects</li> <li>• Extensive experience in regional water resource development</li> </ul>
<p><b>Rachel Struglia, PhD, AICP</b> Contract Manager Availability: 20% Labor Category: Project Director Environmental</p>	<p>UC Irvine PhD, Environmental Analysis and Design Arizona State University MS, Justice Studies University of Connecticut BA, Anthropology</p>	<ul style="list-style-type: none"> <li>• More than 21 years' experience managing CEQA/NEPA compliance projects</li> <li>• Successfully managed large-scale infrastructure projects</li> </ul>
<p><b>Collin Ramsey, LEED GA</b> Task Order Manager Availability: 30% Labor Category: Senior Specialist II</p>	<p>California State University, Fullerton MS, Environmental Studies, Policy and Planning Emphasis UC Santa Barbara BA, Film Studies</p>	<ul style="list-style-type: none"> <li>• More than 10 years' experience managing CEQA/NEPA compliance projects</li> </ul>
<p><b>Patrick Cruz</b> Task Order Manager Availability: 40% Labor Category: Specialist I</p>	<p>UC Santa Barbara BA, Environmental Studies BA, Geography (GIS emphasis)</p>	<ul style="list-style-type: none"> <li>• More than 2 years' experience in CEQA/NEPA compliance</li> </ul>
<p><b>Dana Link-Herrera</b> Task Order Manager Availability: 35% Labor Category: Specialist II</p>	<p>California State Polytechnic University, Pomona MURP, Urban and Regional Planning UC San Diego BA, International Studies (Environmental Studies minor)</p>	<ul style="list-style-type: none"> <li>• More than a year of experience in CEQA/NEPA compliance</li> </ul>
<p><b>Jonathan Rigg</b> NEPA Task Order Manager Availability: 30% Labor Category: Specialist V</p>	<p>University of Arizona MA, Russian and Eastern European Studies University of Colorado BA, International Affairs and Russian Studies</p>	<ul style="list-style-type: none"> <li>• More than 12 years' managing environmental compliance and permitting projects, specializing in NEPA</li> </ul>

Staff	Education	Experience
<p><b>Robert Ohlund, PE</b>  <i>Engineering Technical Advisor</i>  <b>Availability: 10%</b>                      Labor Category: Project Director Engineering</p>	<p>University of Southern California                      BS, Civil Engineering</p>	<ul style="list-style-type: none"> <li>• More than 36 years' engineering experience for public infrastructure projects</li> <li>• Specialist in water, wastewater, and recycled water resource projects</li> </ul>
<p><b>Tommy Moloo</b>  <i>Biological Resources</i>  <b>Availability: 20%</b>                      Labor Category: Specialist V</p>	<p>University of Denver                      MAS, Environmental Policy and Management                      Minot State University                      BA, Biology</p>	<ul style="list-style-type: none"> <li>• More than 11 years' experience as a biologist</li> <li>• Specialist in technical surveys and reporting for CEQA/NEPA compliance</li> </ul>
<p><b>Tricia Wotipka</b>  <i>Waters and Wetlands Permitting</i>  <b>Availability: 20%</b>                      Labor Category: Senior Specialist III</p>	<p>Pennsylvania State University                      BS, Wildlife and Fisheries Science</p>	<ul style="list-style-type: none"> <li>• More than 19 years' experience as an environmental specialist and biologist</li> <li>• Specialist in wetland delineations, environmental permitting, and CEQA/NEPA documentation</li> </ul>
<p><b>Janice Wondolleck</b>  <i>Biological Resources</i>  <b>Availability: 30%</b>                      Labor Category: Analyst V</p>	<p>UC Berkeley                      BS, Environmental Sciences                      UC Los Angeles Extension                      Certificate in Landscape Architecture (In Progress)</p>	<ul style="list-style-type: none"> <li>• More than 4 years' experience preparing biological sections for technical studies, including environmental impact reports (EIRs), biological technical reports (BTRs), habitat conservation plans (HCPs), and focused survey reports</li> </ul>
<p><b>Ted Roberts, MA, RPA</b>  <i>Cultural Resources</i>  <b>Availability: 25%</b>                      Labor Category: Specialist V</p>	<p>Northern Arizona University                      MA, Anthropology                      Wayne State University                      BA, Anthropology</p>	<ul style="list-style-type: none"> <li>• More than 17 years' experience with archaeological and resource management</li> </ul>
<p><b>Jennifer Reed</b>  <i>Air Quality, Greenhouse Gas Emissions</i>  <b>Availability: 30%</b>                      Labor Category: Specialist V</p>	<p>UC Santa Barbara                      BA, Environmental Studies                      BA, Geography</p>	<ul style="list-style-type: none"> <li>• More than 12 years' experience in CEQA/NEPA project compliance</li> <li>• An environmental planner specializing in air quality</li> </ul>
<p><b>Mark Storm, INCE Bd. Cert.</b>  <i>Noise</i>  <b>Availability: 25%</b>                      Labor Category: Senior Specialist III</p>	<p>Massachusetts Institute of Technology                      BS, Aeronautics and Astronautics</p>	<ul style="list-style-type: none"> <li>• More than 28 years' experience as a noise control engineer specializing in environmental noise assessment, mechanical systems noise control, and architectural acoustics</li> <li>• Experience authoring noise technical reports and sections for CEQA/NEPA projects</li> </ul>

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Staff	Education	Experience
<p><b>Nicole Peacock, PE, PG, REA</b>  <i>Public Health and Safety, Hazardous Materials</i>  <b>Availability: 25%</b>                      Labor Category: Senior Hydrogeologist IV/Engineer IV</p>	<p>UC Los Angeles                      BS, Civil and Environmental Engineering/Geology</p>	<ul style="list-style-type: none"> <li>• More than 20 years' experience as an environmental engineer and geologist</li> <li>• Experienced in Phase I and II Environmental Site Assessments (ESAs) and environmental compliance</li> </ul>
<p><b>Perry Russell, PG, CEG</b>  <i>Hydrology/Groundwater/Water Quality</i>  <b>Availability: 30%</b>                      Labor Category: Specialist III</p>	<p>California State University, Northridge                      MS, Geological Resources                      UC Santa Barbara                      BA, Geological Sciences</p>	<ul style="list-style-type: none"> <li>• More than 32 years' experience as a geologist</li> <li>• Specialist in completing geology/soils, hydrology/water quality, hazards/hazardous materials, and utilities sections for CEQA/NEPA documents</li> </ul>
<p><b>Steve Dickey PG, CHG, CEG</b>  <i>Geology/Hydrogeology</i>  <b>Availability: 30%</b>                      Labor Category: Senior Hydrogeologist II/Engineer II</p>	<p>University of Riverside                      Graduate Work, Geophysics and Geology                      Occidental College                      BA, Geology</p>	<ul style="list-style-type: none"> <li>• More than 46 years' experience performing contaminant hydrogeology, engineering geology, groundwater supply, and geophysical projects for industrial and municipal clients</li> </ul>
<p><b>Keith Carwana</b>  <i>Compliance Manager</i>  <b>Availability: 25%</b>                      Labor Category: Senior Specialist II</p>	<p>University of Southern California                      MA, Public Administration                      UC Santa Barbara                      BA, Geography                      BA, Environmental Science</p>	<ul style="list-style-type: none"> <li>• More than 14 years' experience as an environmental specialist</li> <li>• Extensive experience preparing, reviewing, and implementing environmental documentation for CEQA/NEPA compliance</li> </ul>
<p><b>Dennis Pascua</b>  <i>Transportation</i>  <b>Availability: 15%</b>                      Labor Category: Senior Specialist IV</p>	<p>UC Irvine                      BA, Social Ecology (Environmental Analysis and Design)</p>	<ul style="list-style-type: none"> <li>• More than 25 years' experience in transportation planning and engineering</li> <li>• Experienced with CEQA/NEPA and transportation topics and policies surrounding active transportation, context sensitive solutions, and complete streets throughout California</li> </ul>
<p><b>Stuart Fraser, RLA</b>  <i>Habitat Restoration Planning</i>  <b>Availability: 15%</b>                      Labor Category: Senior Specialist I</p>	<p>California University Pomona                      MLA, Landscape Architecture                      Humboldt State University                      BS, Wildlife Management</p>	<ul style="list-style-type: none"> <li>• More than 18 years' experience as a registered landscape architect and restoration ecologist</li> <li>• Specialist in ecosystem restoration and native revegetation</li> </ul>
<p><b>Michael Huff, RCA</b>  <i>Fire Protection Planning, Arborist</i>  <b>Availability: 20%</b>                      Labor Category: Project Director Environmental</p>	<p>Northern Arizona University                      BS, Forest Management</p>	<ul style="list-style-type: none"> <li>• More than 26 years' experience as a forester and fire protection planner</li> <li>• Experienced in CEQA supporting technical documents</li> </ul>

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# 3. Experience

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The following projects exemplify Dudek's history of working with IRWD.

## ON-CALL CEQA/NEPA SERVICES

**Client:** IRWD

**Dates:** 2012-2013 and 2014-2016

**Cost:** Varies by individual project; see descriptions below

**Client Reference:** Jo Ann Corey; 949.453.5300

Dudek has previously held on-call CEQA/NEPA services contracts with IRWD during the 2012-2013 and 2014-2016 contract cycles. Projects under these on-call contracts included:

**Syphon Interim Facilities Initial Study (IS)/Mitigated Negative Declaration (MND).** Dudek prepared an IS/MND for IRWD to evaluate the construction and operation of interim facilities on IRWD property just south of the Syphon Reservoir between the face of the dam and the Crean Lutheran Church High School Sports Complex. The proposed improvements assisted IRWD in converting the Syphon Reservoir from a reservoir holding irrigation water to seasonal storage of recycled water available for a variety of uses for recycled water customers, which requires some amount of disinfection, necessitating interim facilities housing chlorination equipment and other related infrastructure. The IS/MND was adopted in January 2013. Cost: \$39,801.

**Syphon Interim Facilities IS/MND Addendum No. 1.** Dudek prepared an addendum to address changes from what was previously assessed in the original IS/MND. The modifications included an increased construction footprint from 6.39 acres to approximately 8 acres, and an increase in width from a 15-foot-wide access road to a 20-foot-wide access road. When the Final IS/MND was adopted by the IRWD Board of Directors, the surface area requirements for the construction of pipelines crossed the Crean property assumed that Crean would rough grade its proposed sports park site prior to IRWD beginning construction. This assumption reduced the expected excavation depths for installing the pipelines. Crean informed IRWD that due to financial constraints, Crean was not going to be able to rough grade its site before IRWD was to begin construction of project facilities. Therefore, the depths of excavation increased, and additional construction access was needed for the installation of the pipelines as described above. This addendum was completed in February 2013. Cost: \$9,320.

**City of Lake Forest Sports Park and Recreation Center Final EIR Addendum No. 1.** Dudek prepared an addendum to the City of Lake Forest Sports Park EIR for the relocation of 498 feet of a 16-inch IRWD recycled water pipeline within the proposed park. The addendum was completed in August 2012. Cost: \$13,599.

**City of Lake Forest Sports Park and Recreation Center Final EIR Addendum No. 2.** Dudek prepared an addendum to the City of Lake Forest Sports Park EIR for minor modifications to the City of Lake Forest Sports Park and Recreation Center Final EIR. The modifications include addition of a 24-inch storm drain to join existing IRWD drains to a proposed Sports Park drain and an increase to the construction footprint to install the 16-inch recycled water line adjacent to the storm drain, which was assessed in the first Addendum (August 2012) to the Sports Park and Recreation Center. No substantial changes occurred that warranted preparation of subsequent or supplemental EIRs pursuant to Section 15162 of CEQA Guidelines. This addendum was completed in January 2013. Cost: \$6,780.

**Chloramine Booster Stations at Foothill Zone 6 and Portola Zone 8 Reservoirs, Addendum No. 1.** Dudek prepared an addendum to an IS/MND for the construction of chloramine booster stations for reservoirs within Foothill Zone 6 and Portola Zone 8. The Foothill Zone 6 reservoir site and the Portola Zone 8 reservoir site were previously assessed in the Reservoir Management System and Chlorine Analyzers and Reservoir Mixer/Samplers at Domestic Water Reservoirs Project Mitigated Negative Declaration in April 2007. The project involved retrofitting two reservoirs with reservoir management systems to allow the addition of chemicals to the reservoirs to improve degraded water quality as a result of nitrification. Initially IRWD was going to prepare another IS/MND, but Dudek suggested preparation of an Addendum to the previous IS/MND, saving the District time and money. Cost: \$12,610.

### City of San Juan Capistrano Annexation CEQA Support

**Client:** Santa Margarita Water District (SMWD)

**Dates:** December 2019–January 2020

**Cost:** \$2,600

**Client Reference:** Dan Ferons; 949.459.6590; danf@smwd.com

In an effort to control costs for its existing ratepayers, the City of San Juan Capistrano initiated proceedings to transfer its utility system to SMWD. The transfer, which required an annexation and annexation agreement, would ensure that the city's ratepayers would only see modest rate increases in coming years, as well as the investment of approximately \$25 million in capital improvements over 10 years by SMWD. SMWD contracted with Dudek to review all materials relating to the transfer and annexation, and to coordinate with the City and their attorneys in the preparation of CEQA documentation to cover all actions taken as part of the annexation. In its coordination efforts, Dudek determined that processing of the contemplated actions via a categorical exemption would sufficiently satisfy environmental requirements under CEQA. Accordingly, Dudek prepared and filed a Notice Exemption and supplemental Justification Memorandum at the Orange County Clerk-Recorder's Office, which will be used by the Orange County Local Agency Formation Commission in its final approval of the annexation.

### Trampas Dam and Reservoir Mitigation Monitoring

**Client:** SMWD

**Dates:** December 2017–Ongoing

**Cost:** \$110,000

**Client Reference:** Jeffery McDonnell; 949.456.6950; effm@smwd.com

Dudek is currently providing archaeological and paleontological monitoring for the Trampas Canyon Dam Project that is creating a 5,000 acre-foot recycled water reservoir that will provide seasonal and operational storage for the district's existing and proposed recycled water system. Dudek is responsible for coordinating directly with the construction contractor to provide the necessary monitoring coverage for the project. Dudek regularly communicates with SWMD Engineers the Field Engineers subcontracted by SMWD and provides weekly reports to document the monitoring efforts that occurred throughout the week. Upon construction completion, Dudek will prepare a final compliance monitoring report to document the monitoring efforts that occurred in accordance with the Project's requirements.

### Oso Sewage Lift Station Replacement Mitigated Negative Declaration

**Client:** El Toro Water District (ETWD)

**Dates:** July 2018–August 2019

**Cost:** \$41,000

**Client Reference:** Bobby Young; 949.837.7050 x223; byoung@etwd.com

Dudek prepared an IS/MND for the replacement of a lift station in the City of Laguna Woods. The project involved demolition of the existing station originally constructed in 1974 and construction of a new pre-cast wet-well, two

submersible pumps, valve vault, back-up generator, and outdoor electrical enclosure. Additionally, implementation of the project required an expansion of the lift station's boundaries by 10 feet to accommodate the new equipment. While the replacement of an existing lift station would typically be categorically exempt under CEQA, Dudek worked with ETWD to scope an IS/MND based on the project's adjacency to the Laguna Coast Wilderness Park and sensitive habitat for the coastal California gnatcatcher (*Poliioptila californica*), a species listed as threatened by the U.S. Fish and Wildlife Service. Dudek biologists conducted coastal California gnatcatcher surveys pursuant to California Department of Fish and Wildlife protocols and prepared a Biological Resources Assessment to identify and mitigate potential impacts to the threatened species. The IS/MND also addressed potential construction- and operation-related impacts relating to air quality and greenhouse gas emissions, noise and vibration, water quality, and traffic. ETWD's Board of Directors approved the project in fall 2019 and ETWD used the approved CEQA document to obtain an emergency generator permit from the South Coast Air Quality Management District, encroachment permits from the City of Laguna Woods, and to assist in the acquisition of property necessary for the expansion.

### Crowther Sewer Pipeline Project MND

**Client:** City of Placentia

**Dates:** April 2018–December 2019

**Cost:** \$73,200, completed the IS/MND \$13,000 under budget.

**Client Reference:** Masoud Sepahi; 714.993.8148; msepahi@placentia.org

In 2018, the City of Placentia approached Dudek with new findings that the Crowther Sewer Pipeline, an existing sewer collection line, was soon projected to be unable to handle increased flows as a result of redevelopment occurring within the City's Transit-Oriented Development zone. After conferring with Dudek's engineering and environmental teams, the City of Placentia's Public Works Department contracted with Dudek to develop a sewer pipeline replacement design package necessary for replacement of the existing gravity sewer line. Additionally, Dudek's environmental division was contracted to prepare an IS/MND and associated technical studies for the project. Since the proposed pipeline alignment would transverse into the City of Fullerton, California Department of Transportation (Caltrans), Orange County Public Works, and railway right-of-ways and connect into an Orange County Sanitation District trunk line, coordination with these agencies and stakeholders was required. Further, as part of the Caltrans Encroachment Permit, Dudek prepared a Caltrans Historical Resources Compliance Report. Other technical work included quantifying construction-related air quality and greenhouse gas emissions, noise and vibration levels, and peak construction trip-generation.

### North Auburn Mercy Housing NEPA Housing and Urban Development EA

**Client:** County of Placer

**Dates:** November 2018–June 2019

**Cost:** \$26,000

**Client Reference:** Leigh Chavez; 530.745.3077; lchavez@placer.ca.gov

The project is a vacant 3-acre site in Auburn, California that is being redeveloped with a Mercy Housing multi-family residential project. The project would construct 79-units within the larger Placer County Government Center (PCGC) Master Plan area. A U.S. Housing and Urban Development (HUD) funded project, it would set aside homes for homeless/special needs households that qualify for federal programs. Residential services would include educational opportunities and after school programs, access to health and wellness, and community and civic involvement opportunities. The project would include a community building, green spaces, "front porches," that face 1st Street (a major street within the PCGC), and encourage multimodal transportation (including an enhanced bus stop, bicycle repair areas, and pedestrian facilities). Key issues include community impacts/environmental justice, land use, utilities/service systems, and transportation/accessibility.

Apex to Crystal Transmission Line Project EA

**Client:** Los Angeles Department of Water and Power (LADWP)

**Dates:** October 2017–December 2019

**Cost:** \$209,000

**Client Reference:** Aiden Leong; 213.367.0706; aiden.leong@ladwp.com

To reduce costs and increase reliability, LADWP proposes to construct a new 500-kilovolt, 10- to 14-mile transmission line from the Apex generating station to the Crystal switching station in Clark County, Nevada. The project runs primarily across federal land requiring a number of regulatory approvals and permits from the Bureau of Land Management (BLM) and is subject to various mitigation requirements and best management practices. To support BLM review, we provided environmental documentation, including preparing a plan of development; an environmental assessment addressing air quality and biological, cultural, and visual resources; and tech studies for biological and cultural resources. A Utility Environmental Protection Act application has been submitted to the State of Nevada Public Utilities Commission, and BLM processing is ongoing.

## References

Dudek takes pride in maintaining good working relationships with our past and current clients. **Table 3** lists references for IRWD; letters and emails from these clients are provided in **Appendix B**.

**Table 3. Dudek References**

Client and Project	Client Reference
El Toro Water District Oso Sewage Lift Station Replacement Project	Bobby Young Project Engineer P.O. Box 4000 Laguna Hills, California 92654-4000 949.837.7050 x223 byoung@etwd.com
Santa Margarita Water District Multiple Projects	Daniel Ferons General Manager 26111 Antonia Parkway Rancho Santa Margarita, California 92688 949.459.6590



## 4. Schedule

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As a midsized, employee-owned firm, we work to maintain have an open culture, flat structure, and operational flexibility. This progressive approach encourages multiple internal disciplines (e.g., environmental planning, coastal planning, regulatory, and compliance) to collaborate simultaneously on a given project, allowing us to consider a project more holistically than other more singularly focused environmental consulting firms.

The Dudek staff specifically chosen for this contract have the availability and capacity to provide services on upcoming IRWD projects. We have included a wide range of team members with different specialties to accommodate the specifics of any impending project. The vast majority of our selected team is located in Southern California; task managers are located in Dudek's San Juan Capistrano office, supported by staff from Dudek's Encinitas headquarters, in north San Diego County.

The Dudek team presented in this proposal is fully committed and available for this contract. With current workloads ranging from 60% to 80%, our selected team will promptly proceed with any new IRWD task order. Team members can commit substantial effort to the task when it is necessary for the success of a project. Dudek personnel will be committed to the proposed project and no substitution of team members will be made without prior approval from IRWD.

# 5. Fee Schedule

## DUDEK 2020 STANDARD SCHEDULE OF CHARGES

### ENGINEERING SERVICES

Project Director	\$280.00/hr
Principal Engineer III	\$270.00/hr
Principal Engineer II	\$260.00/hr
Principal Engineer I	\$250.00/hr
Program Manager	\$230.00/hr
Senior Project Manager	\$230.00/hr
Project Manager	\$225.00/hr
Senior Engineer III	\$220.00/hr
Senior Engineer II	\$210.00/hr
Senior Engineer I	\$200.00/hr
Project Engineer IV/Technician IV	\$190.00/hr
Project Engineer III/Technician III	\$180.00/hr
Project Engineer II/Technician II	\$185.00/hr
Project Engineer I/Technician I	\$150.00/hr
Senior Designer	\$170.00/hr
Designer	\$160.00/hr
Assistant Designer	\$155.00/hr
CADD Operator III	\$150.00/hr
CADD Operator II	\$140.00/hr
CADD Operator I	\$125.00/hr
CADD Drafter	\$115.00/hr
CADD Technician	\$110.00/hr
Project Coordinator	\$120.00/hr
Engineering Assistant	\$115.00/hr

### ENVIRONMENTAL SERVICES

Project Director	\$245.00/hr
Senior Specialist IV	\$230.00/hr
Senior Specialist III	\$220.00/hr
Senior Specialist II	\$200.00/hr
Senior Specialist I	\$190.00/hr
Specialist V	\$180.00/hr
Specialist IV	\$170.00/hr
Specialist III	\$160.00/hr
Specialist II	\$145.00/hr
Specialist I	\$130.00/hr
Analyst V	\$120.00/hr
Analyst IV	\$110.00/hr
Analyst III	\$100.00/hr
Analyst II	\$90.00/hr
Analyst I	\$80.00/hr
Technician IV	\$90.00/hr
Technician III	\$80.00/hr
Technician II	\$70.00/hr
Technician I	\$60.00/hr
Compliance Monitor	\$85.00/hr

### DATA MANAGEMENT SERVICES

GIS Programmer I	\$185.00/hr
GIS Specialist IV	\$160.00/hr
GIS Specialist III	\$150.00/hr
GIS Specialist II	\$140.00/hr
GIS Specialist I	\$130.00/hr
Data Analyst III	\$100.00/hr
Data Analyst II	\$90.00/hr
Data Analyst I	\$80.00/hr
UAS Pilot	\$100.00/hr

### CONSTRUCTION MANAGEMENT SERVICES

Principal/Manager	\$195.00/hr
Senior Construction Manager	\$180.00/hr
Senior Project Manager	\$185.00/hr
Construction Manager	\$155.00/hr
Project Manager	\$145.00/hr
Resident Engineer	\$145.00/hr
Construction Engineer	\$140.00/hr
On-site Owner's Representative	\$140.00/hr
Construction Inspector III	\$130.00/hr
Construction Inspector II	\$120.00/hr
Construction Inspector I	\$110.00/hr
Prevailing Wage Inspector	\$135.00/hr

### HYDROGEOLOGICAL SERVICES

Project Director	\$285.00/hr
Principal Hydrogeologist/Engineer II	\$285.00/hr
Principal Hydrogeologist/Engineer I	\$250.00/hr
Sr. Hydrogeologist IV/Engineer IV	\$235.00/hr
Sr. Hydrogeologist III/Engineer III	\$220.00/hr
Sr. Hydrogeologist II/Engineer II	\$205.00/hr
Sr. Hydrogeologist I/Engineer I	\$190.00/hr
Hydrogeologist VI/Engineer VI	\$175.00/hr
Hydrogeologist V/Engineer V	\$165.00/hr
Hydrogeologist IV/Engineer IV	\$155.00/hr
Hydrogeologist III/Engineer III	\$145.00/hr
Hydrogeologist II/Engineer II	\$135.00/hr
Hydrogeologist I/Engineer I	\$125.00/hr
Technician	\$100.00/hr

### DISTRICT MANAGEMENT & OPERATIONS

District General Manager	\$195.00/hr
District Engineer	\$185.00/hr
Operations Manager	\$160.00/hr
District Secretary/Accountant	\$120.00/hr
Collections System Manager	\$135.00/hr
Grade V Operator	\$125.00/hr
Grade IV Operator	\$110.00/hr
Grade III Operator	\$100.00/hr
Grade II Operator	\$75.00/hr
Grade I Operator	\$70.00/hr
Operator in Training	\$65.00/hr
Collection Maintenance Worker II	\$75.00/hr
Collection Maintenance Worker I	\$65.00/hr

### CREATIVE SERVICES

3D Graphic Artist	\$160.00/hr
Graphic Designer IV	\$160.00/hr
Graphic Designer III	\$145.00/hr
Graphic Designer II	\$130.00/hr
Graphic Designer I	\$115.00/hr

### PUBLICATIONS SERVICES

Technical Editor III	\$145.00/hr
Technical Editor II	\$130.00/hr
Technical Editor I	\$115.00/hr
Publications Specialist III	\$105.00/hr
Publications Specialist II	\$95.00/hr
Publications Specialist I	\$85.00/hr
Clerical Administration	\$90.00/hr

**Forensic Engineering** – Court appearances, depositions, and interrogatories as expert witness will be billed at 2.00 times normal rates

**Emergency and Holidays** – Minimum charge of two hours will be billed at 1.75 times the normal rate

**Material and Outside Services** – Subcontractors, rental of special equipment, special reproductions and blueprinting, outside data processing and computer services, etc. are charged at 1.15 times the direct cost

**Travel Expenses** – Mileage at current IRS allowable rates. Per diem where overnight stay is involved is charged at cost

**Invoices, Late Charges** – All fees will be billed to Client monthly and shall be due and payable upon receipt. Invoices are delinquent if not paid within 30 days from the date of the invoice. Client agrees to pay a monthly late charge equal to 1% per month of the outstanding balance until paid in full

**Annual Increases** – Unless identified otherwise, these standard rates will increase 3% annually

**Reproduction Fees** – Billed as labor unless an external vendor is used and material costs are additional

The rates listed above assume prevailing wage rates does not apply. If this assumption is incorrect Dudek reserves the right to adjust its rates accordingly

**DUDEK**

Effective January 1, 2020

## 6. Joint Venture

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Dudek does not propose to enter into a joint venture for the purposes of performing work requested by IRWD under this RFP. Additionally, given Dudek's depth of experience and diverse array of in-house technical specialists, Dudek is confident in its capability to complete high quality and technically sound environmental documents with the project team identified herein. As such, Dudek does not anticipate the use of subcontractors under this contract. However, Dudek maintains a strong working relationship with many local environmental subcontractors, and is open to teaming with other consultants, as required or requested by IRWD.

## 7. Conflict of Interest

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Dudek has reviewed our past and current projects, clients, and contracts, and has reviewed our staffs' roles within the company, and does not find any conflicts of interest that would impede our ability to perform the scope of work requested by IRWD in the RFP.

## 8. Insurance

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Proof of insurance has been provided in Appendix C.

## 9. Contract

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Dudek takes no exception to the Sample Contract.



# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

8/26/2018

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Hall & Company A/E Insurance Services 19660 10th Ave NE Poulsbo WA 98370	CONTACT NAME: Allison Barga Licensne #0K93926	
	PHONE (A/C, No, Ext): 360-626-2007      FAX (A/C, No): 360-626-2007 E-MAIL ADDRESS: abarga@hallandcompany.com	
INSURER(S) AFFORDING COVERAGE		NAIC #
INSURER A : Zurich American Insurance Company		16535
INSURER B : Steadfast Insurance Company		26387
INSURER C :		
INSURER D :		
INSURER E :		
INSURER F :		

INSURED  
 Dudek  
 605 3rd Street  
 Encinitas CA 92024

25

**COVERAGES**

CERTIFICATE NUMBER: 2065324776

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> OCP/XCU/BFPD <input checked="" type="checkbox"/> Cross Liability GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:			GLO014631102	8/28/2018	8/28/2019	EACH OCCURRENCE	\$ 1,000,000
							DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 100,000
							MED EXP (Any one person)	\$ 10,000
							PERSONAL & ADV INJURY	\$ 1,000,000
							GENERAL AGGREGATE	\$ 2,000,000
							PRODUCTS - COM/OP AGG	\$ 2,000,000
								\$
A	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY			BAP014632902	8/28/2018	8/28/2019	COMBINED SINGLE LIMIT (Ea accident)	\$ 1,000,000
							BODILY INJURY (Per person)	\$
							BODILY INJURY (Per accident)	\$
							PROPERTY DAMAGE (Per accident)	\$
								\$
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DED <input checked="" type="checkbox"/> RETENTION \$ 0			AUC014640702	8/28/2018	8/28/2019	EACH OCCURRENCE	\$ 1,000,000
							AGGREGATE	\$ 1,000,000
								\$
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N N	N/A	WC014633002	8/28/2018	8/28/2019	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER	
							E.L. EACH ACCIDENT	\$ 1,000,000
							E.L. DISEASE - EA EMPLOYEE	\$ 1,000,000
							E.L. DISEASE - POLICY LIMIT	\$ 1,000,000
B	Professional Liab Claims Made Contractors Pollution Liab: Occur			PEC014631402	8/28/2018	8/28/2019		\$1,000,000 Per Claim \$1,000,000 Aggregate

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Re: Various Locations  
 Burtech Pipeline, Inc is an Additional Insured on the Commercial General Liability and Auto Liability when required by written contract or agreement regarding activities by or on behalf of the Named Insured. The insurance is primary insurance and any other insurance maintained by the Additional Insured shall be excess only and non-contributing with this insurance. A waiver of subrogation applies to the Commercial General Liability, Auto Liability, Umbrella / Excess Liability and Workers Compensation / Employers Liability in favor of the Additional Insured.

**CERTIFICATE HOLDER****CANCELLATION**

Burtech Pipeline, Inc  
 102 Second Street  
 Encinitas CA 92024

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

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**EXHIBIT "G"**  
**HARMSWORTH ASSOCIATES**

**Environmental Consultants**

January 30<sup>th</sup>, 2020

Irvine Ranch Water District  
Attn: Ms. Fiona M. Sanchez, Director Water Resources  
15600 Sand Canyon Ave., Box 57,000  
Irvine, CA 92619

Dear Ms. Sanchez:

**Re: Proposal for On-Call Monitoring and Permitting Services**

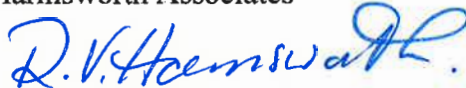
Harmsworth Associates (HWA) has provided general environmental services to private and public organizations since 1984. The firm developed expertise in Orange County in ecologically sensitive areas through its work with the Irvine Company, The Nature Conservancy, the Natural Communities Coalition, and IRWD within the IRWD Service Area. The firm has expertise in ecologically sensitive areas and played a major role in the development of the Central and Coastal sub-region NCCP/HCP. Harmsworth Associates has prepared documents for and conducted CEQA/NEPA compliance, mitigation development and monitoring as well as associated wetland permitting with the USACE, CDFW and RWQCB. The firm has a close working relationship with The Irvine Company, in a number of Planning Areas, undertaking predevelopment biological surveys, mitigation planning and monitoring in IRWD's Service Area.

Recently the firm assisted IRWD with the several important projects including, the Fleming Reservoir assessment, Baker 2016 NCCP project, Lake Forest Sports Park waterline, Rattlesnake spillway permitting and restoration, construction monitoring and restoration for the Baker SAC 30 NCCP project. In each case HWA responded promptly to conduct the required monitoring/surveys in a timely and cost-effective manner.

Neither Harmsworth Associates nor its personnel have a conflict of interest prohibited by law. The firm has the required insurance and has named IRWD as an additional insured on its certificates of insurance. The IRWD contract is acceptable to Harmsworth Associates.

Thank you for the opportunity to submit the enclosed Scope of Work.  
Yours truly

Harmsworth Associates



Rodney V. Harmsworth, Ph.D.  
President

**ENVIRONMENTAL ASSISTANCE  
FOR  
ON-CALL MONITORING AND PERMITTING SERVICES**

**SCOPE OF WORK**

At the request of the Irvine Ranch Water District (IRWD), Harmsworth Associates will provide the following on-call services:

**Task 1: Land Use Planning**

IRWD plans through its Master Plan, and sub-area Master Plans for its three primary statutory activities, to provide domestic water, reclaimed water and wastewater treatment. These activities are planned to accommodate the County and City development plans. Moreover, the IRWD is required to comply with the many laws, regulations and codes in its capital improvement program.

Harmsworth Associates is familiar with the Planning Areas within IRWD's Service Area and has recently conducted pre-construction biological surveys, construction monitoring or permitting in the following PAs 1, 6, 9 18 and 39, for The Irvine Company's residential developments that will be served by IRWD through its capital improvement program. The firm has access to local planning documents, CEQA, NEPA documents and permits. Moreover, the firm was a part of the NCCP/HCP planning process representing the Metropolitan Water District of Southern California and later assisting both The Irvine Company and IRWD in extensive biological surveys and the preparation of amendments to the NCCP/HCP.

*Harmsworth Associates will assist IRWD with planning its capital projects and maintenance activities by providing advice on the nexus of environmental issues with planning activities to minimize the environmental consequences and cost of its planned actions.*

**Task 2: Regulatory Agency Consultation, Permit Application and Procurement**

Harmsworth Associates is familiar with the preparation and processing of federal, state, and local permits on projects, operations, maintenance and planning activities. Assistance by Harmsworth Associates may involve the preparation and processing of permit applicants and supporting materials with one or more of the regulatory agencies. The firm has provided consultation on both riparian and upland systems.

Harmsworth Associates secured emergency permits for IRWDs Rattlesnake spillway, the ILP washout and the San Joaquin Reservoir Access Road washout. Currently HWA are in the process of obtaining permits for a housing development in Beaumont, Riverside County.

*Harmsworth Associates will assist IRWD with the preparation of permit applications to the resource/wildlife regulatory agencies including:*

- *United States Army Corps of Engineers*
- *Bureau of Land Management*
- *United States Forest Service*
- *California Department of Water Resources*
- *California Regional Water Quality Control Board*
- *California Department of Fish and Wildlife*
- *California Coastal Commission*
- *South Coast Air Quality Management District*

*Harmsworth Associates will provide services to monitor or implement compliance and reporting. Compliance may require monitoring contractor removal of exotic plants, restoration and revegetation monitoring then complete the annual or periodic reporting requirements in permits. Consultant shall provide certification of compliance with permit conditions for IRWD and agency approval. Harmsworth Associates shall develop a schedule of all permit requirements for existing and new permits and their status. Consultant shall bring any violations of permit conditions to the attention of the District.*

### **Task 3: Wetland Delineation**

Harmsworth Associates staff has taken the USACE delineation course and are fully competent to determine the jurisdictional boundaries of the United States Army Corps of Engineers (pursuant to Section 404 of the federal Clean Water Act). They have expertise with the California Fish and Wildlife Code (pursuant to Section 1602) and the California Coastal Commission (pursuant to the California Coastal Act).

Harmsworth Associates has completed many wetland delineations in southern California and Orange County for submission to the USACE, RWQCB and CDFW to obtain permits certifications and agreements. One recent project was for a proposed housing development in the city of Calimesa. Impacts occurred to a perennial creek that supports riparian habitat. HWA conducted the delineation, all biological surveys, and impact analysis and obtained the permits.

Harmsworth Associates recently completed Wetland Delineations, Vegetation Mapping and obtained permits on projects in Moreno Valley, Noble Creek and Bridge Street in Riverside County.

*Harmsworth Associates will provide wetland delineation services to IRWD in compliance with the regulatory definitions in force.*

### **Task 4: Biological Survey, Monitoring, Assessment**

Harmsworth Associates has the necessary permits to survey for the listed species in the Service Area including nest monitoring ability for the least Bell's vireo, the southwestern

willow flycatcher and the collection of endangered fairy shrimp etc. The staff is very familiar with the flora and fauna of Orange County having completed some of the most extensive surveys undertaken in the County. The firm was selected to survey the **Orange County Coastal Central NCCP/HCP** project including:

1. Rare Wetland Plants in the Orange County Central/Coastal NCCP Subregion
2. Rare Grassland Plants in the Orange County Central/Coastal NCCP Subregion
3. Quino Checkerspot Butterfly Habitat in Orange County Central/Coastal NCCP Subregion
4. *Arundo donax* in Orange County Central/Coastal NCCP Subregion
5. Native Fish in Orange County Central/Coastal NCCP Subregion
6. Arroyo Southwestern Toad in Orange County Central/Coastal NCCP Subregion
7. Southwestern Pond Turtle in Orange County Central/Coastal NCCP Subregion
8. Grassland Birds in Orange County Central/Coastal NCCP Subregion
9. Tricolored Blackbird in Orange County Central/Coastal NCCP Subregion
10. Raptors in Orange County Central/Coastal NCCP Subregion
11. Least Bell's Vireo and Willow Flycatcher in Orange County Central/Coastal NCCP Sub-region

In addition the firm has undertaken extensive wildlife and plant surveys of the North Ranch Policy Plan Area for The Irvine Company. Currently the firm is undertaking numerous surveys for TIC, IRC, NCC and the TNC of the flora and fauna in IRWD's Service Area.

*Harmsworth Associates will undertake biological surveys, assessments and monitor preconstruction and construction areas as required for the District's projects. Harmsworth Associates will provide field services, written reports, compliance with state and federal protocols and advisement on IRWD's projects. The firm will undertake preliminary and initial assessments, bird nesting surveys, biological monitoring and identification of threatened and endangered species.*

**Task 5: Threatened and Endangered Species Regulation, Monitoring and Reporting**

Harmsworth Associates can survey and prepare documents for endangered and threatened species and recommend strategies to minimize and mitigate potential impacts within the NCCP/HCP agreements. Harmsworth Associates has permits (No. PRT-810768) and MOUs to survey and study endangered species such as the least Bell's vireo, southwestern willow flycatcher, coastal California gnatcatcher, fairy shrimp, pond turtle and other species. The firm's staff attends meetings with the USFWS staff on key issues involving survey protocols for listed species and provides input of a practical nature.

As a consultant representative of Lennar Homes with the Coalition for Habitat Conservation the firm follows the latest developments and legal actions under the ESA. Complex issues such as the "No Surprises Policy", "adverse modification" definition and the ability to mitigate "off-site" impacts to critical habitat are currently under litigation and may impact IRWD's Section 10(a) (1) (B) Endangered Species Permit obtained as a

result of the NCCP/HCP plan in 1996. These and other issues of importance are well known to Harmsworth Associates.

Over the past several seasons HWA staff has assisted TIC comply with the endangered species act relating to least Bell's vireo at PA1. A complex set of mitigation measures required TIC to conduct surveys and nest monitoring for least Bell's vireo in addition to weekly noise monitoring of construction activity during the nesting season for the vireo. Weekly reports were required to be submitted to USFWS, CDFW and the Corps. HWA conducted the surveys, nest monitoring, noise monitoring and submitted the weekly reports.

*Harmsworth Associates will assist IRWD in the review of regulatory issues associated with listed species under the Endangered Species Acts (FESA and CESA) and ascertain the significance of such regulation on IRWD's projects, operations, and planning activities. The firm will provide assistance with specific policy formulation on endangered species covered under the:*

- *Federal Endangered Species Act*
- *California Endangered Species Act*
- *Natural Community Conservation Plan Act*
- *The NCC's policies and IRWD's rights on "take" in the reserve*
- *Migratory Bird Treaty Act*

*The firm will provide assistance with both existing 10(a) permits and new applications as required.*

#### **Task 6: Mitigation Monitoring and Reporting**

Harmsworth Associates has a long history of mitigation monitoring in Orange County. The firm is currently working on a number of projects for the Irvine Company undertaking preconstruction surveys, construction monitoring surveys for conditions compliance, noise monitoring and other requirements for several developments in the service area. The firm is currently assisting IRWD in restoring cactus scrub habitat at the OPA site and is assisting the Natural Communities Coalition (NCC) managing contractors controlling exotic weeds in the NCCP/HCP reserve.

#### **Other projects include:**

- Mitigation monitoring at various sites for IRWD including Lake Forest Zone C, Santiago Creek ILP, Harding Tank and Baker RWPS.
- Mitigation monitoring of native grassland restoration at PA18 for The Irvine Company.
- Surveys and monitoring for least Bell's vireo, southwestern willow flycatcher, and other riparian birds at various riparian habitats in Irvine for The Irvine Company.
- Vegetation and wildlife surveys for The Nature Conservancy, at open space areas of the Irvine Ranch.

- Monitoring vegetation removal under the NCCP guidelines

*Harmsworth Associates will assist IRWD in mitigation monitoring planning, 404, 1602, and 401 permit conditions compliance. Harmsworth Associates shall provide services to monitor or implement compliance and reporting. Compliance may require monitoring contractor removal of exotic plants, restoration and revegetation monitoring then complete the annual or periodic reporting requirements in permits. Consultant shall provide certification of compliance with permit conditions for IRWD and agency approval. Harmsworth Associates shall develop a schedule of all permit requirements for existing and new permits and their status. Consultant shall bring any violations of permit conditions to the attention of the District.*

#### **Task 7: Water Quality Storm-water Monitoring and Reporting**

Harmsworth Associates personnel have a strong background in water resources. Dr. Harmsworth was an analytical chemist prior to specializing in the field of fresh water biology as a limnologist. At Camp Dresser and McKee he was president of the Environmental Sciences Division and responsible for over 200 personnel including 100 water quality chemists. He managed water quality monitoring projects from wastewater treatment plant efficacy analysis (City of Detroit WWTP), sewer and wastewater discharges to lake, river and stream systems. He was responsible for the long-term monitoring of Salt Creek sediment load as a part of the RWQCB conditions. We are familiar with water quality collection procedures and the quality assurance procedures required for water quality collection and analysis.

Harmsworth Associates collected the biological data used by the Corps in preparation of the San Diego Creek SAMP and we are familiar with the workings of this SAMP.

*Harmsworth Associates will provide water quality and sediment quality monitoring for compliance with USACE, RWQCB, and CDFW permit conditions. Also, Harmsworth Associates will provide compliance monitoring with the General Orange County Stormwater Permit.*

#### **Task 8: Natural Treatment System**

Harmsworth Associates conducted invertebrate sampling in the Woodbridge Channel for the NTS project. The aim of the sampling was to document the existing invertebrate fauna of the Woodbridge Channel, particularly the riffle areas. Four locations were selected along the channel for sampling. Standard qualitative and semi-qualitative methods including, sweep netting of vegetation and the water column, sediment grabs, kick-sampling and hand searches, will be used to assess the status of the existing fauna. To the extent possible, sampling techniques were compatible with the methods used by Alex Horne along Peters Canyon Channel. The existing physical condition and vegetation communities at each location were described.

Harmsworth Associates obtained permits for IRWD's inline basins under a sub contract to Tettemer and Associates. The firm has expertise in the areas of water quality, freshwater biology, wetland permits and restoration of wetland systems. The NTS as designed will remove sediment, some nitrogen from nitrification processes in the treatment basins and potentially heavy metals adsorbed onto sediments and selenium to the atmosphere.

Harmsworth Associates have been involved in the design, planting palette and installation of the NTS basins at PA1 and PA39 for The Irvine Company. Harmsworth Associates is familiar with the vegetation management and monitoring required for NTS basins.

*Harmsworth Associates will provide assistance in monitoring water quality, fauna and the growth and types of vegetation in the basins. In addition the firm will provide advice on the management of the basins to optimize the removal of sediments and pollutants.*

### **Task 9: Natural Community Conservation Plan/Habitat Conservation Plan (NCCP/HCP)**

Harmsworth Associates was a consultant member of the working group of agencies and landowners that prepared the Orange County NCCP/HCP program for coastal sage scrub including the preparation of the EIR/EIS, Management Plan and the Implementing Agreements. The program plays an important role in the mitigation plans for participating landowner's projects and the operation and maintenance plans of existing and future facilities.

Harmsworth Associates prepared survey documents for the wetland, upland and grassland surveys and biological analysis for the NCCP/HCP Amendment including:

- Rare Wetland Plants in the Orange County Central/Coastal NCCP Subregion
- Rare Grassland Plants in the Orange County Central/Coastal NCCP Subregion
- Quino Checkerspot Butterfly Habitat in O.C. Central/Coastal NCCP Subregion
- Arundo donax in Orange County Central/Coastal NCCP Subregion
- Native Fish in Orange County Central/Coastal NCCP Subregion
- Arroyo Southwestern Toad in Orange County Central/Coastal NCCP Subregion
- Southwestern Pond Turtle in Orange County Central/Coastal NCCP Subregion
- Grassland Birds in Orange County Central/Coastal NCCP Subregion
- Tricolored Blackbird in Orange County Central/Coastal NCCP Subregion
- Raptors in Orange County Central/Coastal NCCP Subregion
- Least Bell's Vireo and Willow Flycatcher in Orange County Central/Coastal NCCP Sub-region

Harmsworth Associates has extensive experience working with the Orange County (NCCP/HCP). Projects relating to NCCP/HCP issues have been conducted for the Natural Communities Coalition, The Irvine Company, The Nature Conservancy, Transportation Corridor Agencies and others. Many of these projects have included

conducting biological assessments, focused surveys, assessment of impacts to NCCP resources, construction monitoring and co-ordination with NCC and wildlife agencies.

Harmsworth Associates recently provided NCCP/HCP compliance for IRWD on the Baker SAC 30 site, Lake Forest Zone C pipeline and on the Baker 2016 repairs.

*Harmsworth Associates will provide assistance to IRWD in the planning of its projects that are related to the NCCP/HCP plan. Three main elements, the ESA 10a permit, the Implementing Agreement and the Mitigation Monitoring Program are of importance to IRWD. We will provide assistance for Section 10 relating to the construction minimization methods that must be followed.*

**Task 10: Project Coordination**

Harmsworth Associates has a history of successful coordination with other consultants and agencies; and we can work equally well as a project leader or as a team member. Harmsworth Associates was a consultant member of the working group of agencies and landowners that prepared the Orange County NCCP/HCP, which required significant coordination with other consultants and agencies. Harmsworth Associates successfully obtained permits for IRWD's inline basins under a sub contract to Tettemer and Associates; and regularly work and coordinate with a variety of IRWD managers and staff on IRWD projects.

Harmsworth Associates regularly provide biological data and reports to other consultants preparing the CEQA documents; Harmsworth Associates will work with IRWDs CEQA consultant as requested.

*Harmsworth Associates will coordinate with other consultants and agencies as necessary and will provide project management or act as a subordinate as directed by IRWD.*



**Task 11: Staff Rates**

The rates of the personnel shown in the table would be used on the contract

**CONSULTING FEE SCHEDULE  
JULY 1, 2019 TO JUNE 30, 2020**

Harmsworth Associates understands that the fee schedule is good for the duration of the contract regardless of employee promotions.

<b>Labor Category</b>	<b>Hourly Rates</b>
Principal	\$ 140.00
Vice-principal	\$ 130.00
Sr. Biologist	\$ 100.00
Project Biologist	\$ 80.00
Assistant Biologist	\$ 60.00

**EXPENSES**

Mileage \$ 0.50 /mile

Other direct costs at cost plus 12%

**Task 12: Project Task Item Estimates**

Once requested Harmsworth Associates always provides project scope/cost in a timely manner. Harmsworth Associates is used to working for IRWD, Irvine Company and other clients on call contracts, and is experienced in providing project scopes/costs at short notice. For all projects Harmsworth Associates provides a scope of work, cost estimate, schedule and staff availability; the level of detail depends on the client requirements for individual projects.

On small projects with very quick turn-around times Harmsworth Associates can provide a same-day proposal with staff availability, schedule, cost estimate and scope via email. For example on the Blyth Martin property assessment, the cost for the survey was initially provided via phone, with a follow-up email; the survey, meetings and letter report were completed within 7 days of the initial request.

On more typical small jobs Harmsworth Associates can provide a proposal, cost estimate, staff availability and schedule within a few days. For example, the exotic weed removal project in San Juan Creek from RMV (see Appendix A).

For more complex projects Harmsworth Associates provides a more detailed proposal including methodology, detailed schedule, cost estimate, scope of work and staff assignments. For example the biological surveys conducted at Rancho Cucamonga TTM19992 (see Appendix A).

### **Task 13: Team Experience**

Harmsworth Associates would undertake the majority of the work with its own staff; detailed SOQ attached. However, we have included subcontractors in case additional work outside of the current scope is required.

Primary HWA staff for this project are as follows, although other staff may be utilized as necessary (detailed resumes are attached in Appendix B);

Rod Harmsworth Ph.D. - Dr. Harmsworth has 30 years of experience in all phases of project and personnel management in the environmental sciences field. Dr. Harmsworth was involved in the preparation of the Orange County NCCP/HCP as a representative of the Metropolitan Water District of Southern California.

Time availability for IRWD contract – 15% of time.

Paul Galvin, M.S. – Designated Project Manager for on-call contract. Mr. Paul Galvin has over 25 years of experience conducting biological surveys, T/E surveys and managing environmental projects. Mr. Galvin is an expert in NCCP/HCP compliance and implementation and 404/1600 permitting.

Time availability for IRWD contract – 30% of time.

Glen Morrison, B.S.– Mr. Morrison has over 10 years experience conducting botanical and biological surveys. Ms. Morrison has extensive experience with wetlands/riparian habitats, coastal sage scrub and other habitats, and in rare plants. Time availability for IRWD contract – 10% of time.

Michelle Balk, M.S.– Ms. Balk has over 12 years experience conducting botanical and biological surveys. Ms. Balk has extensive experience with wetlands/riparian habitats, coastal sage scrub and other habitats, and is an expert in rare plants. Time availability for IRWD contract – 10% of time.

Jacob Aragon, B.S. - Mr. Aragon has over 7 years of experience in wildlife surveys and construction monitoring. Mr. Aragon has conducted numerous construction monitoring projects and surveys for wildlife and sensitive bird species including the least Bell's vireo (*Vireo bellii pusillus*). Time availability for IRWD contract – 10% of time.

Daniel Cowell - Mr. Cowell has over 7 years of experience in wildlife surveys and construction monitoring. Mr. Cowell has conducted numerous construction monitoring projects and surveys for wildlife and sensitive bird species including the least Bell's vireo (*Vireo bellii pusillus*). Time availability for IRWD contract – 10% of time.

## **Task 14: References**

### **Signal Peak OCFA/UCSD Wildfire Camera Tower Project Biological Assessment**

Worked with Allen Shinbashi, Kellie Welch and Jo Ann Corey

A new tower/antenna for the OCFA/UCSD Wildfire Camera Tower Project, was installed at the IRWD Signal Peak Facility. At very short notice IRWD needed a site visit and determination of the vegetation onsite, NCCP site status and potential for nesting birds.

Paul Galvin researched the history of the site from aerial photographs, archive documents and NCCP documents. Then the site was assessed and the vegetation mapped. It was determined that all impacts were to landscaped areas and that no mitigation would be required. A letter report was prepared within 3 days of the site visit with IRWD staff. Follow-up nesting bird surveys were also conducted prior to start of construction activities.

The entire work was completed in a timely and cost-effective manner. Mr. Galvin worked effectively with all parties and the quick turn-around allowed IRWD to proceed with this important project without any delays.

### **Lake Forest Zone B East Reservoir**

Worked with Alex Murphy, Tom Bonkowski, John Dayer, Jo Ann Corey and David Asman

Harmsworth Associates provided construction monitoring and biological overview for the Lake Forest Zone B East Reservoir redevelopment project. Harmsworth Associates checked the site regularly to ensure compliance with all project biological and NCCP conditions. This included working with both IRWD staff and contractors to provide advice on which areas could be impacted and how to avoid impacts to sensitive habitats without delaying the project. Harmsworth Associates also worked with the IRWD team to address some damage that occurred to the adjacent Lake Forest Zone C mitigation site during removal of a boundary fence at the commencement of the project.

During this process Harmsworth Associates worked closely with IRWD staff ways to minimize environmental impacts without impacting the required construction activities.

Currently, Harmsworth Associates is monitoring the performance of the restored area by the fence line and reporting to the agencies on an annual basis.

HARMSWORTH ASSOCIATES

## REFERENCES

Dean Kirk, Vice-President  
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(949) 720-2878

Trish Smith  
The Nature Conservancy  
1400 Quail, Suite 130  
Newport Beach, California 92660  
trish\_smith@TNC.ORG  
(949) 263-0933

Richard Beck  
Michael Baker International  
14725 Alton Parkway  
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Marc Brown, Environmental Scientist  
Santa Ana Regional Water Quality Control Board  
3737 Main Street, Suite 500  
Riverside, CA 92501  
Tel: (951) 321-4584  
Fax: (951) 321-4580

HARMSWORTH ASSOCIATES

## **SCHEDULE**

Harmsworth Associates is experienced at providing on-call services for several clients and understands how to schedule staff workloads to meet client's requirements for all projects, whether large or small. Harmsworth Associates has a history of staff flexibility and responsiveness. This allows Harmsworth Associates to meet client schedules regardless of staff workloads. Harmsworth Associates demonstrated its ability to meet schedules during past emergencies at several IRWD pipelines, and the quick turn-around on recent projects such as the Blyth and Baker SAC-30 work. Based on our past experience, the firm's current and future workload we anticipate satisfying IRWD's project schedule for this on-call services contract.

## **JOINT VENTURE**

This proposal is not a joint venture

## **CONFLICT OF INTEREST**

Neither Harmsworth Associates nor its personnel have a conflict of interest prohibited by law or in contravention of IRWD policies.

## **INSURANCE**

The firm has the required insurance and has named IRWD as an additional insured on its certificates of insurance. The IRWD contract is acceptable to Harmsworth Associates.

## **CONTRACT**

The proposed contract is acceptable to Harmsworth Associates



# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

1/30/2020

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an **ADDITIONAL INSURED**, the policy(ies) must have **ADDITIONAL INSURED** provisions or be endorsed. If **SUBROGATION IS WAIVED**, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

<b>PRODUCER</b> Risk Strategies Company 2040 Main Street, Suite 450 Irvine, CA 92614  www.risk-strategies.com      CA DOI License No. 0F06675	<b>CONTACT NAME:</b> Risk Strategies Company <b>PHONE (A/C, No, Ext):</b> 949-242-9240 <b>FAX (A/C, No):</b> <b>E-MAIL ADDRESS:</b> syoung@risk-strategies.com																				
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**COVERAGES**      **CERTIFICATE NUMBER:** 53857651      **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR  GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:			6045361867	2/13/2020	2/13/2021	EACH OCCURRENCE      \$2,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence)      \$300,000 MED EXP (Any one person)      \$10,000 PERSONAL & ADV INJURY      \$2,000,000 GENERAL AGGREGATE      \$4,000,000 PRODUCTS - COMP/OP AGG      \$4,000,000 \$
A	<input type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY			6045361867	2/13/2020	2/13/2021	COMBINED SINGLE LIMIT (Ea accident)      \$1,000,000 BODILY INJURY (Per person)      \$ BODILY INJURY (Per accident)      \$ PROPERTY DAMAGE (Per accident)      \$ \$
B	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$10,000			6045361870	2/13/2020	2/13/2021	EACH OCCURRENCE      \$2,000,000 AGGREGATE      \$2,000,000 \$
C	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A	72WBCVK2966	2/13/2020	2/13/2021	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT      \$1,000,000 E.L. DISEASE - EA EMPLOYEE      \$1,000,000 E.L. DISEASE - POLICY LIMIT      \$1,000,000
A	Professional Liability			EEH288366721	2/13/2020	2/13/2022	Per Claim      \$1,000,000 Aggregate      \$1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Projects as on file with the Insured.  
 Irvine Ranch Water District is named as additional insured on the general liability policy-see attached endorsement.

**CERTIFICATE HOLDER**      **CANCELLATION**

Irvine Ranch Water District Attn: Ms. Susan Gallagher P.O. Box 2700 Irvine CA 92619	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.  AUTHORIZED REPRESENTATIVE  Michael Christian
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# EXHIBIT "H"

2121 Alton Parkway  
Suite 100  
Irvine, CA 92606  
949.753.7001 phone  
949.753.7002 fax

esassoc.com

January 30, 2020

Fiona M. Sanchez  
Director of Water Resources  
Irvine Ranch Water District  
15600 Sand Canyon Avenue  
Irvine, CA 92618

**Subject: Proposal for On-Call Biological Monitoring and Permitting Services**

Dear Ms. Sanchez:

Environmental Science Associates (ESA), an employee-owned California Corporation with an office in Irvine and 18 other locations along the nation's West Coast and in Florida, is an award-winning environmental consulting firm with over 50 years of experience guiding projects through the environmental review, permitting, and construction process. We are pleased to present this proposal to Irvine Ranch Water District (IRWD or District) as a qualified consultant for on-call biological monitoring and permitting services for small or recurring projects. As you know, ESA specializes in environmental compliance and natural resources permitting for water and wastewater infrastructure projects, with considerable experience throughout Southern California.

In our response to IRWD's Request for Proposals (RFP), we have provided a summary of our experience and capabilities to perform the types of services IRWD may require over the next four years. Our key strengths that set us apart are summarized below:

- **ESA's focus on environmental regulatory compliance for water and wastewater clients is unmatched.** Our team provides the full array of technical expertise requested in the RFP and will focus on solutions to your environmental issues to expedite successful project implementation.
- **Experienced on-call environmental service providers.** We have extensive experience providing on-call biological, permitting, and environmental compliance services to public utilities in Southern California, including IRWD since 2009, California Department of Water Resources since 2006, Inland Empire Utilities Agency since 2013, and Orange County Department of Public Works since 2001. We know what it takes to manage on-call contracts effectively and successfully and would have a minimized learning curve working with IRWD on this contract.
- **We provide exceptional Senior Managers and a deep bench of Technical Experts.** ESA's senior management team lead by Dr. Jennifer Jacobus and Scott Holbrook provides centralized leadership, strategic support, and a commitment to quality. Our job is to understand our clients' objectives and to collaborate with them to overcome challenges. Scott Holbrook will be the primary point of contact and responsible for collaboration with key technical leads and quality control of all deliverables. Our senior managers, key technical leads and supporting staff have extensive experience in their respective fields, many of whom have worked with IRWD on multiple projects.
- **We know IRWD.** We are familiar with the District's specific style, quality commitments, and cost control expectations, and we have established effective relationships with IRWD project managers. This experience brings real value to the District through strategic approaches to project implementation that minimize costs through careful staffing and scoping based on current real world experience and "institutional knowledge." ESA is committed to this partnership, and will hit the ground running.

We have greatly valued our partnership with IRWD over the past 11+ years, and we appreciate this opportunity to be considered for biological and permitting services going forward. This letter is signed by Tom Barnes, who as Vice President has the authority to represent and contractually bind the firm, and Scott Holbrook as Client/Project Manager. Should you have any questions, please feel free to contact Scott Holbrook at 949.753.7001 or sholbrook@esassoc.com.

Sincerely,

Tom Barnes  
VP, Director, Water Group

Scott Holbrook  
Client/Project Manager

## INTRODUCTION

Environmental Science Associates (ESA) is a multidisciplinary firm of environmental professionals that develop creative and feasible project solutions and environmentally responsible plans and projects, and deliver quality, scientifically-based environmental documentation. While we offer a wide range of services to support environmental planning and compliance with the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA), this proposal focuses specifically on our expertise as it pertains to biological services and regulatory permitting and compliance. The format of this proposal follows the proposal content requirements outlined in the Request for Proposals.

### Biological and Permitting Services

The ESA team presented in the proposal provides the full array of technical expertise for capital, operation and maintenance, and emergency projects that may require biological, permitting and compliance services, including mitigation planning, design, and implementation. ESA's professional biologists, botanists, arborists, restoration ecologists, regulatory permitting and resource management specialists provide a broad array of consulting services throughout Southern California's diverse environments including biological surveys, vegetation mapping, wetland delineations and assessments, tree inventories, protocol/focused species surveys, and monitoring and reporting. In particular, our team is particularly familiar with the resources within IRWD's service area and the local and regional plans and policies protecting those resources. We have supplemented our biology and permitting team with a few key in-house disciplines including community planning, air quality/noise, cultural resources, and environmental hydrology to ensure technical capability and quality. The breadth and depth of our expertise allows us to successfully engage in and complete multiple concurrent project assignments on schedule and within budget. Our specialists are credentialed and responsive and carry out projects with the greatest level of professionalism at the greatest value to our clients. Committed to accommodating client interests and compliance strategy requirements, ESA is recognized for its integrity and balanced perspective.

### Subconsultant: Alta Environmental

ESA routinely engages in subcontract arrangements when technical specialties beyond our in-house capabilities are required and appropriate for a project. For this contract, we have enlisted the expertise of **Alta Environmental** to provide Water Quality, Stormwater Monitoring and Reporting services. Alta Environmental, an NV5 Company (Alta|NV5) is a well-recognized environmental consulting firm in the areas of National Pollutant Discharge Elimination System (NPDES) permits, including storm water permit compliance, sediment and water quality assessment, environmental site assessment, remediation, hazardous materials, industrial hygiene, hazardous waste, environmental health and safety, air quality, sustainability, training, and litigation support. They are focused on Environmental Compliance, Program Management, Energy, Construction Quality Assurance, and Infrastructure. The Alta|NV5 team has been providing professional environmental consulting services for over 50 years, with over 400 qualified professionals in 6 offices throughout Southern California. Further details about their firm and staff qualifications are presented in **Sections 2 and 3 and Appendix A**.

## SECTION 1 Scope of Work

The following subsections address the ESA team's understanding, expertise, and management and technical approaches to accomplishing the tasks outlined in the RFP.

### Management Approach

#### Management Team Availability and Schedule

IRWD's need for on-call services over the next four years and the schedule for on-call projects will drive the team's dedication to tasks as they are identified. Both Jennifer and Scott will commit time as specific tasks warrant. ESA is committed to meeting project schedule deadlines, and we have recent experience dedicating the time needed to get the job done on schedule such as the Palos Verdes Peninsula Water Reliability Project.

#### Project Controls and Invoicing

ESA engages in a proactive approach to tracking, reporting, and controlling costs so that budgets are managed effectively. The first step in managing project costs is working closely with the client to establish a clear and detailed scope, schedule, and budget. The scope of services assures the project is undertaken with maximum efficiency. ESA maintains a continuity of leadership and team members for its projects. This continuity assures our clients that each project benefits from the



efficiencies of a familiar team and receives the budget supervision it deserves. We conscientiously advise our clients when requested to perform services outside the scope of work to protect our clients from cost overruns.

ESA uses the Deltek electronic time reporting system to monitor and track staff activities for each project and submit monthly invoices in a timely manner. This system allows real-time monitoring of labor costs, which are compiled weekly and used to measure project performance as well as percentage of completion and percentage of budget spent. Our invoices include individual staff hours per project and any reimbursable, permitting, and filing fees. We include a customized progress report with each monthly invoice, indicating activities performed for active tasks during the invoicing period, expected activities for the next monthly period, and any expected challenges or problems. Under this contract, ESA will provide separate invoices for each project, and if requested by IRWD can provide a monthly summary of the overall Purchase Order (PO) status. ESA's individual invoices always include the total approved project budget, amount previously expended, amount expended for the current monthly billing period, and the budget remaining.

### Quality Control / Quality Assurance

All ESA work products are subject to a stringent Quality Assurance/Quality Control (QA/QC) Program. The Program consists of multiple levels of review, each requiring a sign-off from the manager in charge:

1. Independent Technical Peer Review;
2. Project Manager Assembly and Review of Work Product;
3. Editorial Review of Work Product; and
4. Project Director Review and Approval.

This approach provides for preparation of documents that have received reviews from senior technical leaders for accuracy of content, the overall Project Manager for compliance of task objectives, a technical editor for style and readability, and a Project Director to ensure documents are legally defensible, technically accurate, and tailored to meet client needs.

## Technical Approach

### Task 1: Land Use Planning

ESA provides land use, policy and environmental planning services and supporting technical studies for a wide range of public agencies in Southern California. We have also represented a number of our clients and their environmental needs with the City of Irvine's Community Development Department and Orange County Planning and Development. We have developed a relationship with staff and understand their needs and each jurisdiction's expectations.

Our Community Planning team has expertise in policy planning, land use, zoning and development regulations. Our planners will help interpret existing local jurisdiction requirements, identify areas where local permitting or approvals may be required, and assist in the permitting process. In addition, our expertise in CEQA allows us to also interpret and prepare any environmental clearance required for land use permitting that may require CEQA clearance. In addition to understanding local land use and environmental policies and permitting, our team can also provide public outreach services to develop public buy-in for projects, assist stakeholders and the public with better understanding a project and its impacts, and also complying with local, state and federal policies for engagement with any permitting process required.

### Task 2: Regulatory Agency Consultation, Permit Application and Procurement

ESA understands that IRWD's projects often require compliance with state and federal statutes that regulate aquatic resources. At the state level, these statutes include the Porter-Cologne Water Quality Control Act of 1969, as amended, Section 1600 et seq. of the California Fish and Game Code (FGC), and the California Coastal Act (CCA), and, at the federal level, the Clean Water Act (CWA) of 1972, as amended. To assist IRWD with complying with these regulations, our approach would be to work with IRWD to: 1) determine if the project activity is a regulated activity that may trigger a need for a permit; 2) delineate limits of aquatic resources (per Task 3) and assess potential impacts; 3) determine the potential jurisdictional status of the aquatic resources (i.e., are they considered waters of the U.S.?); 4) identify the most streamlined permitting strategy and feasible design options; 5) initiate pre-application meetings with agencies; 6) submit permit applications; and 7) thoroughly review permits obtained from agencies and provide suggested revisions.

The ESA team will advise and guide IRWD on how to best navigate permitting requirements depending on the project. We are experienced in securing Clean Water Act permits, Water Quality Certifications, Waste Discharge Requirements, Lake or Streambed Alteration Agreements, Coastal Development Permits; obtaining take authorization or demonstrating compliance with the Federal Endangered Species Act (FESA) and the California Endangered Species Act (CESA); and demonstrating compliance with Section 106 of the National Historic Preservation Act and South Coast Air Quality Management District

(SCAQMD) policies. Under the direction of IRWD, ESA will attend pre-application meetings with regulatory agencies and support informal/formal agency consultations as necessary.

### Task 3: Wetland Delineations

ESA regulatory scientists and wetland ecologists are extensively experienced in conducting wetland delineations in accordance with protocols and guidelines established by the U.S. Army Corps of Engineers (USACE) and California Coastal Commission (CCC), and are trained to perform the California Rapid Assessment Method (CRAM) assessments. In addition, we comprehensively identify aquatic resources that are protected under the Porter-Cologne Water Quality Control Act, FGC, Special Area Management Plans (SAMPs), and local open space and conservation general plan elements. At the onset of a particular project, ESA will identify all applicable regulatory statutes that will require compliance and target field investigations accordingly. Based on the delineation, ESA will prepare an aquatic resources delineation report or CRAM report suitable for submittal to the regulatory agencies to support permitting as well as CEQA/NEPA.

### Task 4: Biological Surveys, Monitoring, and Assessments

ESA has demonstrated experience in providing a full range of biological services to IRWD. Our biologists are familiar with the flora and fauna within Orange County and IRWD's service area, and the sensitive habitats and special-status species known to occur in the service area such as least Bell's vireo and coastal California gnatcatcher. Our team is highly qualified to perform a variety of biological surveys, assessments, and monitoring (see **Table 2-1** for the biology team's qualifications) and is trained to use the latest technology to collect data electronically. It is anticipated that this task will involve, but not necessarily be limited to, the following: preliminary biological resources assessments and reconnaissance-level surveys; protocol/focused surveys for rare plants and special-status wildlife; preparation of biological technical reports to support permitting, Endangered Species Act compliance, and/or CEQA/NEPA; pre-construction special-status and nesting bird surveys and monitoring; NCCP/HCP clearance surveys; and staking/flagging restricted work areas.

Our biologists will review available biological reports and databases prior to conducting field surveys to identify known or potential biological resources on or near the project site. Vegetation communities will be mapped in the field using geospatial information systems (GIS) technology and classified according to A Manual of California Vegetation (Second Edition) by Sawyer-Keeler Wolfe and Evans (2009). Habitat assessments will be conducted to determine potential habitat suitability of special-status species, and species-specific surveys will be conducted in conformance with the most recent accepted protocols.

### Task 5: Threatened and Endangered Species Regulation, Monitoring and Reporting

This task includes assessing the need for species surveys based on current site conditions, conducting those surveys consistent with federal and/or state protocols, reporting on the findings of these surveys, and monitoring project activities in proximity to listed species. ESA biologists are comprised of a diverse team of experienced and credentialed resource management specialists with expertise and experience, as well as credentials accepted by the applicable resource agencies related to threatened, endangered, and otherwise special status species (see **Table 2-1** for the biology team's qualifications).

ESA staff members are permitted or otherwise authorized by the U.S. Fish and Wildlife Service (USFWS) and/or California Department of Fish and Wildlife (CDFW) to perform protocol surveys for a wide array of species. Although we anticipate working through the NCCP/HCP, ESA biologists will advise IRWD on addressing potential impacts to federally and/or State endangered and/or threatened species subject to the FESA and/or CESA. ESA biologists will prepare mitigation strategies for completing Section 7 FESA consultation and obtaining a Biological Opinion from the USFWS, or a FESA Section 10 Habitat Conservation Plan, when warranted. Relative to CESA, ESA biologists will assist IRWD in the application to request an Incidental Take Permit pursuant to CESA Section 2081(b) and consistency determinations pursuant to FGC Section 2080.1. However, as mentioned above, ESA anticipates employing mitigation guidelines provided for in the region-wide NCCP/HCP to avoid or minimize project-related impacts to regulated resources.

### Task 6: Mitigation Monitoring and Reporting Plans

As part of a typical scope of work for environmental compliance, ESA includes preparation of the Mitigation Monitoring and Reporting Program (MMRP) as required by CEQA, Habitat Mitigation and Monitoring Plans (HMMPs) as necessary, and implementation of requirements outlined in permit conditions. We understand that IRWD may require assistance implementing these environmental conditions for current projects such as the Syphon Reservoir Geotechnical Investigation Project. If requested by IRWD under this On-Call Services contract, ESA will implement the MMRPs, HMMPs, and permit conditions associated with projects, including preparation of a reporting program binder designed to track the implementation and completion of each requirement, management of monitoring activities and required field surveys, and preparation of periodic reports to document ongoing activities and project completion. Alternately, ESA has a real-time, scalable mobile data collection and reporting system to support compliance and construction monitoring projects and

provide real-time monitoring results. Our field teams are trained with the latest technology to streamline the monitoring and reporting process; saving time and money for our clients.

By implementing a kick-off meeting prior to construction and through regular coordination calls for the duration of construction, ESA will work with IRWD and its contractors, and our subconsultant, to ensure the project's compliance with environmental monitoring and reporting requirements, while achieving construction goals. ESA has staff that specialize in construction monitoring in both our Biological Resources & Land Management Group and Cultural Resources Group, and our team has extensive experience implementing MMRPs and permit conditions for various projects as part of on-call services contracts. Examples of our mitigation monitoring and reporting experience are included in **Section 2**.

### Task 7: Water Quality, Storm Water Monitoring, and Reporting

Alta Environmental has a highly qualified and diverse team to provide technical expertise in strategic program management of individual, Phase I, Phase II, Industrial, and Construction General Permits in California, performing site inspections and assessments, and monitoring and reporting for storm and waste water compliance, sediment and water quality assessments.

At the inception of a project, the project site will be evaluated for environmental permitting compliance needs. Depending on the scope of work, there may be the need for water quality permits to be obtained (i.e., Storm Water for Construction Activities, Low Threat Discharge Permits to ground or surface water). Alta Environmental will review the construction activities with IRWD and ESA's management team to provide preliminary BMP design recommendations and prepare the water quality permits needed. If requested, our team's Qualified Storm Water Pollution Prevention Plans (SWPPP) Practitioner (QSP) will prepare SWPPPs and oversee SWPPP inspections and compliance with environmental water quality permits and requirements. The SWPPP & Environmental Field Monitors also will be available to respond promptly and provide assistance with sampling required for approved discharges, spills, release reporting requirements, excavation of contaminated soil, and collection of samples of contaminated soil and groundwater. Field summary reports will be prepared, and required field documentation will be completed. The SWPPP and Environmental Field Monitors will comply with sampling, monitoring, and reporting requirements.

### Task 8: Natural Treatment System

Part of storm water compliance is using low impact development or technologies to treat storm water runoff. The idea is to use plants specific for the type of pollutants of concern contained in dry weather runoff and storm runoff and to design the "basins" to encourage sediment and/or pollutant deposition within the "basins". In order to determine the size of the Natural Treatment System (NTS) and the types of plants to utilize, our team will provide IRWD with a clear understanding of the soil types and types of pollutants of concern. Our team is experienced in site design, plant palette design, and construction, maintenance, and monitoring of NTS such as the San Joaquin Marsh, Peters Canyon, and Dominguez Gap Wetlands.

### Task 9: Natural Community Conservation Plan/Habitat Conservation Plan

ESA has comprehensive knowledge of the local Natural Community Conservation Plan/Habitat Conservation Plan (NCCP/HCP) program, and will work directly with IRWD as we have done in the past to guide the planning and implementation of projects that may affect Reserve lands. Our team will provide field assessments, reporting, coordination, and administrative services consistent with the NCCP guidelines, and will facilitate direct communications with the Executive Director of the Natural Communities Coalition (NCC) and the agencies in the NCCP guideline documents. If needed, ESA will facilitate meetings with USFWSs and CDFW to discuss any anticipated issues associated with NCCP/HCP compliance. If a proposed project falls within the jurisdiction of the local NCCP/HCP, similar what ESA completed for the Syphon Reservoir Geotechnical Investigation Project, ESA will work with IRWD to coordinate with the appropriate local agency and NCCP/HCP participating parties (i.e., Natural Communities Coalition and resource agencies) to ensure the proposed project is in compliance with the plan and ensure that the appropriate mitigation is recommended and/or satisfied.

### Task 10: Project Coordination

ESA is accustomed to working with multiple stakeholders, agencies, and other consultants on any given project. In accordance with our focus on client satisfaction and under the direction of IRWD, ESA will team or collaborate with other consultants or agencies in order to provide the best technical or regulatory expertise required to meet project objectives and provide services that are in the best interest of our clients. As demonstrated by our project qualifications in **Table 3-1**, ESA regularly teams up with other planning firms, engineering firms, and specialty firms.

In addition, our project management team will regularly coordinate with IRWD, other consultants, agencies, and contractors to provide services requested under this on-call contract. Jennifer has worked with Scott and many of the key technical leads identified in this proposal, including Maile and May, on a variety of water/wastewater/groundwater projects throughout California, including the Syphon Reservoir Geotechnical Investigation Project. To facilitate coordination of teams comprised

of multiple consultants and agencies, ESA utilizes regularly scheduled conference call meetings to maintain focus of analyses, provide a forum for information exchange, and maintain compliance with project schedules and budgets.

### Task 11: Staff Rates

As requested in the RFQ, we have presented our staff rates in **Section 5**.

### Task 12: Project Task Item Estimates

Our typical on-call services contracts require us to prepare scopes of work, cost estimates and schedules for projects as they arise. ESA has prepared task order proposals for biological and regulatory compliance services under ESA's current CEQA/NEPA on-call contract, as well as other on-call contracts such as for DWR and Orange County Public Works (OCPW). The appropriate level of effort will be developed by our project management team in coordination with IRWD, key technical staff, and/or ESA's subconsultant. Staff will be assigned based on project requirements. Each new project will be established under this IRWD On-Call Services master contract and IRWD's Purchase Order. Upon request, ESA will prepare and submit a project team description, scope, budget, and schedule to IRWD for new projects as they arise within one to three days, depending on the nature of the work. Longer timeframes may be required for larger jobs. The costs associated with preparing scope/schedule/budget packages will be ESA's responsibility. With District approval of the scope and fee, ESA will begin work on new projects immediately upon receiving a written notice to proceed.

### Task 13: Team Experience

As requested in the RFQ, we have presented our proposed project team and their relevant experience in **Section 2 Team**. Additional details about each team member are provided in the resumes attached as **Appendix A**.

### Task 14: References

As stated in the RFP, in lieu of reference letters, ESA is providing a summary of work completed for IRWD projects and associated IRWD staff members. The ESA Team has completed the projects listed in **Table 3-1** below, which include work completed under our previous on-call master contracts with IRWD and otherwise under individual project contracts. **Table 2-1** also identifies the IRWD staff that was previously involved in each project.

## SECTION 2 Team

ESA is an environmental science and planning firm of more than 500 professionals throughout 19 offices across the Western United States and Florida. ESA is one of California's leading, 100 percent employee-owned environmental consulting firms, with more than 50 years of success in supporting client goals and achieving project success. ESA was established with the mission of assisting clients in solving environmental planning and compliance problems, developing environmentally responsible plans and programs, and providing quality, scientifically based environmental documentation in compliance with federal, state, and local statutes. Because we are highly esteemed for our breadth and depth of services, time- and cost-efficient procedures, and commitment to quality documentation and client service, ESA is regularly called upon by public and private entities throughout Southern California.

Taking into consideration the nature of the contract, anticipated projects, and the various disciplines necessary to address biological and regulatory permitting requirements, ESA has selected the proposed team based on their technical expertise, exemplary qualifications, location and availability. These key personnel – the Project Director, Project Manager, and Task Managers – have been selected to lead, oversee, and be hands-on in their execution of the contract tasks. These task managers also have a stable team of biologists, ecologists, scientists, and regulatory specialists available to them, also presented in this section. This deep bench ensures that ESA can maintain responsiveness in the face of potential multiple, concurrent task orders and to provide expedited service. Our organizational chart below illustrates the relationship between IRWD, our project management team, key personnel and technical support staff. ESA understands any substitution or addition of any key personnel must be requested in writing, along with a statement of qualifications and time commitment. We understand this request must be approved in writing in advance. Resumes of key personnel are provided in **Appendix A**. Technical support staff resumes are available upon request.

## Management Team

### Jennifer Jacobus, PhD | Project Director

Dr. Jennifer Jacobus is a Senior Manager in ESA's Southern California Water Group. She is an accomplished CEQA/NEPA project manager with over 16 years of professional experience and a reputation for customer service and client satisfaction. Jennifer focuses exclusively on water and wastewater clients and projects throughout Southern California. She serves as the Project Manager for ESA's on-call contracts with IRWD, Inland Empire Utilities Agency (IEUA), and Eastern Municipal Water

District (EMWD). As a scientist with foundational training in ecology and resource management, Jennifer has a keen ability to communicate with ESA technical team leaders and staff to ensure appropriate and relevant analyses across all disciplines. She also has experience working with clients' engineering design teams, to understand project features and operational criteria. Jennifer has managed a full spectrum of water projects and has recently completed the environmental process for IRWD's Syphon Reservoir Geotechnical Investigations Project Initial Study/MND and, together with Scott Holbrook and May Lau, facilitated USFWS and CDFW coordination for a Streambed Alteration Agreement, Jurisdictional Determination, and NCCP consistency determination. Jennifer has acted as Project Manager for all IRWD projects described in Table 3-1 as well, including the current and ongoing Syphon Reservoir Improvement Project EIR.

**Project Availability:** 15% | **Labor Category:** Senior Principal Environmental Planner I | **Education:** PhD, Resource Ecology & Management, School of Natural Resources & Environment, University of Michigan; M.A., Geography, Boston University; B.A., Economics, Johns Hopkins University

### Scott Holbrook | Client/Project Manager; NCCP/HCP; Project Coordination

Scott is a biologist and senior project manager with over 28 years of experience with the biological resources and environmental regulations in Southern California. He is skilled at leading site investigations and preparing technical reports for CEQA and NEPA impact analyses and in support of regulatory permitting, as well as for due diligence inquiries. His expertise includes developing cost-effective mitigation measures for projects involving pipelines and various water facilities, various energy and road project, and general real estate developments. As a trained ecological restoration specialist he has developed many innovative, cost-effective mitigation programs to serve project goals and meet resource agency permit requirements and is experienced with regional multi-species habitat conservation program requirements (e.g., Orange County NCCP/HCP). His relationship with IRWD was established during his work on the Syphon Reservoir Project, where he had a major role in the biological resources technical report, NCCP/HCP review and consistency determination, mitigation planning, and agency coordination. He also lent his expertise to the biological resource management plan for the San Joaquin Marsh Operating Guidelines and Resource Management Plan Update. In addition to his IRWD work, Scott serves as the contract manager for ESA's Permitting and Restoration Services on-call contract with OCPW.

As Client/Project Manager, Scott would be the primary point-of-contact for IRWD and responsible for the day-to-day management of the contract. He will interact regularly with designated IRWD representatives, the project team, and regulatory agencies, as needed. Scott will use ESA's contract management tools including real-time labor/cost reports providing job costs to date, regular cost summaries by project and task, and schedule management program tools to closely track and manage contract performance. Scott will implement ESA's principles for maintaining quality control over deliverable products. Scott will foster efforts by ESA staff and coordinate with the IRWD team to recognize constraints and challenges and work proactively toward resolutions. His approach to client communication/recommendations, critical thinking, resource agency relationships, and execution of project tasks bring a strategic approach to biological permitting, compensatory mitigation development/implementation that combined with his extensive experience consistently exceeds client expectations.

**Project Availability:** 30% | **Labor Category:** Managing Biologist III | **Education:** B.A., Applied Ecology, University of California, Irvine

### Task Managers

#### Michael Houlihan | Land Use Planning

With over 30 years of industry experience in directing, managing, and preparing environmental documentation within Southern California, Michael has lead numerous project teams through the successful completion of environmental processes; many being high-profile projects. These projects included planned communities, water/wastewater infrastructure, community land use planning, residential/commercial developments, parks/schools, transportation/circulation improvements, and energy facilities. His expertise is in providing high quality documents by resolving issues as they arise and through proactive and responsive communication. Michael has served as a project manager for projects with the Orange County Sanitation District, City of Newport, City of Costa Mesa, and City of Irvine.

**Project Availability:** 30% | **Labor Category:** Senior Principal Environmental Planner I | **Education:** B.S., City and Regional Planning, California Polytechnic State University, San Luis Obispo

#### May Lau | Agency Consultation & Permitting; Wetland Delineation

May is a regulatory program manager and senior project manager with 16 years of experience in the environmental consulting industry. Her primary responsibilities include providing permitting strategies; review of permit packages; agency consultations; CEQA/NEPA and other technical analyses for a variety of water/wastewater, transportation, private development, and restoration projects. May has cultivated and maintained trusted working relationships with local

## ORGANIZATION CHART



**Bold** = Task Manager

resource agency staff, and has a keen understanding of their requirements and preferences in addition to her knowledge of the formalized statutes and policies. As the permitting task lead for the Syphon Reservoir Geotechnical Investigations Project, she has worked with IRWD and ESA key staff proposed under this on-call. In addition, she is serving as the regulatory permitting lead for other on-call contracts such as California Department of Water Resources (DWR), Los Angeles County Department of Public Works (LACDPW), and IEUA.

**Project Availability:** 30% | **Labor Category:** Principal Environmental Scientist I | **Education:** B.S., Environmental Science, University of California, Santa Barbara

### Maile Tanaka | Biological Surveys/Monitoring & Reporting; T&E Species; MMRP

Maile has more than 14 years of experience in the field of consulting biology. Her professional experience includes vegetation mapping, habitat assessments, botanical surveys (including tree inventories and rare plant surveys), focused surveys for special-status wildlife, nesting bird surveys, and jurisdictional delineations throughout Southern California. She has experience in preparing technical biological resources documents in accordance with CEQA guidelines for numerous complex projects, and is well-versed with the requirements of the Orange County NCCP/HCP. Maile prepared the biological technical report for the Syphon Reservoir Geotechnical Investigations Project, which analyzed the project’s consistency with the County of Orange Central & Coastal Subregion NCCP/HCP. She also was the lead biologist that conducted and coordinated multiple years of focused surveys for special-status floral and faunal species in support of the future Syphon Reservoir Improvement Project, coordinated with USFWS and CDFW, and oversaw the biological monitoring conducted in compliance with the project’s MMRP and permit during implementation of the geotechnical work. Maile also coordinated with USFWS and CDFW regarding implementation of NCCP/HCP Construction-Related Minimization Measures.

**Project Availability:** 30% | **Labor Category:** Managing Biologist I | **Education:** Master of Environmental Science & Management, University of California, Santa Barbara; B.S., Organismic Biology, Ecology & Evolution, University of California, Los Angeles

**Dave Renfrew (Alta Environmental), CPSWQ, PMP, QISP/TOR, QSD/P | Water Quality, Stormwater Monitoring & Reporting**

David Renfrew brings 23 years of experience in the environmental industry with a focus on Phase I Municipal National Pollutant Discharge Elimination System (NPDES) Compliance Programs. David provides specialty professional expertise to municipal, industrial, commercial, and institutional clientele. He has implemented full scale monitoring and reporting projects and provided extensive program management support. Through his career, he has developed strategic technical comments to shape regulatory policy and permits on behalf of his clients. His project work includes management of municipal contracts to ensure quality project delivery; and compliance with Phase I NPDES Permit requirements including inspections, reporting, database development, site assessments, watershed assessments, water quality management plans, BMP effectiveness assessment, aerial deposition, site specific objectives, toxicity identification evaluations, water scarcity assessments, and resiliency planning documents. His work provides his clients a pathway for economically responsible compliance.

**Project Availability:** 30% | **Labor Category:** Alta Environmental Principal | **Education:** B.S., Geological Sciences (Emphasis in Hydrogeology), San Diego State University

**Nick Garrity, PE | Natural Treatment System**

Nick is the director of ESA’s Southern California Environmental Hydrology & Design Group. He is a hydrologist and civil engineer with more than 20 years of experience working with wetland, river, estuary, and coastal systems. His technical and project management experience includes the planning and design of multi-benefit wetland enhancement, restoration, and management projects; water quality and flood hazard studies; hydrodynamic modeling; environmental impact assessments; and post-project monitoring and evaluation. His technical skills and expertise include the assessment and modeling of wetland hydraulics and water quality, sediment dynamics, and engineering design. With previous experience leading ESA’s reduced discharge technical study on the San Joaquin Marsh for the Peters Canyon Water Capture and Reuse Project, current role in leading the development of IRWD’s San Joaquin Marsh Operating Guidelines and Resource Management Plan, and experience with various treatments wetlands and wetland maintenance and restoration projects, including San Joaquin Marsh/Peters Canyon, Big Canyon, and Aliso Creek, he is well-suited to lead the hydrology studies and analyses for IRWD.

**Project Availability:** 20% | **Labor Category:** Senior Principal Environmental Scientist I | **Education:** M.S., Civil and Environmental Engineering, University of California at Berkeley; B.S., Geology– Physics/ Mathematics, Brown University

**Technical Support Team**

**Table 2-1** provides a summary of the technical support staff proposed for this contract. These individuals will be available, as needed, depending on the scope of individual projects. Our proposed Management Team and Technical Team have an extensive history of working together on many projects that included biological monitoring and permitting as described later in this section, including IRWD projects.

The ESA Team understands that the availability of team members is of importance to the District; therefore, only staff with the requisite availability to commit to this On-Call Contract’s scope of services are assigned to this project. We have included a generalized time-available percentage, but recognize that the services needed under this contract will be intermittent and varied, requiring periods of 100 percent commitment of key staff until tasks are complete. The work effort for our proposed key staff members will fluctuate as individual projects move from one phase to another. Based on the schedule and projected staff hours for implementation of the projects under this On-Call Contract, we can confidently commit to the availability and participation by our proposed Technical Team.

**Table 2-1: Summary of ESA Technical Team Staff and Qualifications**

Name	Technical Expertise
<p><b>Adrienne Lee</b>  <i>Biological Surveys/Monitoring &amp; Reporting; MMRP</i>  <b>Availability:</b> 20%  <b>Labor Category:</b> Biologist I  <b>Education:</b> M.S., Biology; B.S., Ecology, Behavior, and Evolution</p>	<ul style="list-style-type: none"> <li>• Biologist with over 7 years of extensive field work experience in coastal sage scrub habitat in Southern California.</li> <li>• Prepares CEQA documents, biological resource reports, vegetation management plans, mitigation monitoring reports, post-construction reports, and other technical reports and memorandums.</li> <li>• Conducts rare plant surveys, vegetation mapping, protocol surveys, avian surveys, acoustical bat surveys, wildlife camera installation, monitoring.</li> </ul>

Name	Technical Expertise
<p><b>Alan Sako, LEED AP BD+C</b> <i>Agency Coordination, Permitting &amp; Procurement</i> <b>Availability: 20%</b> <b>Labor Category:</b> Principal Environmental Scientist I <b>Education:</b> B.S., Atmospheric, Oceanic &amp; Environmental Science</p>	<ul style="list-style-type: none"> <li>Over 18 years of experience in preparing and managing air quality and climate change analyses, performing ambient air quality impact analyses and health risk assessments for CEQA and NEPA documents, and providing air quality permitting and compliance support.</li> <li>Cross-trained in acoustical/noise modeling, and preparing hazardous materials business plans (HMBPs), risk management plans (RMPs) for hazardous substances, and offsite consequence analyses (OCAs) for hazardous substances.</li> </ul>
<p><b>Alanna Bennett Sullivan</b> <i>Biological Surveys/Monitoring &amp; Reporting</i> <b>Availability: 20%</b> <b>Labor Category:</b> Senior Biologist II <b>Education:</b> B.S., General Biology</p>	<ul style="list-style-type: none"> <li>Environmental Biologist with more than 8 years of experience in project management, habitat restoration, land management, technical report writing, and focused species surveys including coastal California gnatcatcher (permitted), least Bell's vireo, and numerous rare plant species.</li> <li>Experience working within Multiple Species Habitat Conservation Plan and habitat management plans.</li> </ul>
<p><b>Cailin Lyons</b> <i>NCCP/HCP</i> <b>Availability: 20%</b> <b>Labor Category:</b> Principal Biologist I <b>Education:</b> MLA, Sustainability &amp; Environmental Management; B.S., Environmental Management &amp; Protection</p>	<ul style="list-style-type: none"> <li>Senior biologist with over 10 years of expertise performing high-level conservation planning and environmental impact analysis.</li> <li>Experience includes general biological surveys, vegetation community mapping, jurisdictional delineations, habitat restoration, preserve management, resource management planning, rare plant surveys, nesting bird surveys, and species-specific surveys coastal California gnatcatcher, coastal cactus wren, least Bell's vireo, arroyo toad, and other sensitive willdife.</li> </ul>
<p><b>Candace Ehringer, RPA</b> <i>Agency Coordination, Permitting &amp; Procurement</i> <b>Availability: 20%</b> <b>Labor Category:</b> Principal Cultural Resource Specialist I <b>Education:</b> M.A., Anthropology; B.A., Anthropology</p>	<ul style="list-style-type: none"> <li>Cultural resources manager with 21 years of experience in California providing technical and compliance oversight for archaeological survey, evaluation, and treatment; built environment studies, including the documentation and evaluation of buildings, structures, and districts; Tribal resources consultations; and paleontological resources survey and sensitivity assessments.</li> <li>Experience working with agencies and Tribes to identify Traditional Cultural Properties and tribal cultural resources.</li> <li>Proficient in the areas of CEQA, NEPA, Section 106, and AB 52 compliance.</li> </ul>
<p><b>Douglas Gordon-Blackwood</b> <i>Biological Surveys/Monitoring &amp; Reporting; MMRP</i> <b>Availability: 20%</b> <b>Labor Category:</b> Senior Biologist I <b>Education:</b> B.S., Botany</p>	<ul style="list-style-type: none"> <li>ISA certified arborist and biologist with 8 years of experience in biological resources and habitat restoration, and 13 years with arboriculture.</li> <li>Extensive survey experience for biological resource assessments, habitat and vegetation mapping, wetland delineations, nesting bird surveys, habitat restoration, arboricultural assessments, invasive species eradication, and biological compliance monitoring.</li> </ul>
<p><b>Jaelyn Catino-Davenport</b> <i>Biological Surveys/Monitoring &amp; Reporting; MMRP</i> <b>Availability: 20%</b> <b>Labor Category:</b> Senior Biologist I <b>Education:</b> B.S., Zoology</p>	<ul style="list-style-type: none"> <li>Terrestrial biologist with over 8 years of experience conducting a variety of preconstruction surveys and monitoring</li> <li>Performs trapping, banding and surveying for a variety of special status avian species.</li> </ul>
<p><b>Julie Stout</b> <i>Agency Coordination, Permitting &amp; Procurement</i> <b>Availability: 20%</b> <b>Labor Category:</b> Managing Biologist II <b>Education:</b> B.S., Biological Sciences</p>	<ul style="list-style-type: none"> <li>Senior biologist and regulatory permitting specialist with 14 years of experience preparing jurisdictional delineations and CRAM assessments, biological resources assessments, providing regulatory permitting and compliance efforts, mitigation plan development and implementation, compliance monitoring, and focused species surveys.</li> <li>Extensive agency consultation experience.</li> </ul>
<p><b>Karl Fairchild</b> <i>Biological Surveys/Monitoring &amp; Reporting; MMRP</i> <b>Availability: 20%</b> <b>Labor Category:</b> Senior Biologist I <b>Education:</b> M.S., Environmental Studies; B.S., Fish and Wildlife; B.A., International Studies</p>	<ul style="list-style-type: none"> <li>Skilled field biologist and environmental compliance monitor with extensive experience identifying and managing sensitive biological resources.</li> <li>Holds current USFWS recovery permit for willow flycatcher surveys and CDFW scientific collecting permit.</li> <li>Extensive bird survey experience, can identify most North American birds by sight and sound, and is skilled at recognizing nesting bird behavioral cues.</li> </ul>



Name	Technical Expertise
<p><b>Karla Flores</b> <i>Biological Surveys/Monitoring &amp; Reporting; MMRP</i> <b>Availability: 20%</b> <b>Labor Category:</b> Senior Biologist I <b>Education:</b> M.S., Biology; B.A., Biology</p>	<ul style="list-style-type: none"> <li>• Six years of experience as a field biologist with a strong background in small mammal biology</li> <li>• Experience leading surveys and monitoring for small mammals, focused protocol, and federally protected species, as well as bat acoustic surveys.</li> <li>• Experienced in identifying sensitive bird species.</li> </ul>
<p><b>Kelly Rios</b> <i>Biological Surveys/Monitoring &amp; Reporting</i> <b>Availability: 20%</b> <b>Labor Category:</b> Principal Biologist I <b>Education:</b> B.S., Biological Science</p>	<ul style="list-style-type: none"> <li>• Senior biologist with over 20 years of experience including trapping and specialized surveys such as wildlife corridor surveys.</li> <li>• Holds current USFWS recovery permits for San Bernardino kangaroo rat and coastal California gnatcatcher, Quino checkerspot butterfly, and El Segundo blue butterfly. Has assisted with habitat creation/restoration efforts for listed species such as the coastal California Gnatcatcher.</li> </ul>
<p><b>Lindsey Sheehan, PE</b> <i>Natural Treatment Systems</i> <b>Availability: 20%</b> <b>Labor Category:</b> Managing Engineer II <b>Education:</b> M.S., Environmental Fluid Mechanics and Hydrology; B.S., Environmental Engineering, Literature Minor</p>	<ul style="list-style-type: none"> <li>• Hydrologist and engineer specializing in hydraulics, sediment transport, and the restoration of wetland, river, estuarine, and coastal ecosystems.</li> <li>• Work includes numerical modeling, GIS analysis, and hydrologic, geomorphic, and water and sediment quality technical analyses in support of wetland restoration projects and hydrologic processes assessments.</li> <li>• Participated in research into the mixing that occurs in deep zones within constructed treatment wetlands while at Massachusetts Institute of Technology.</li> </ul>
<p><b>Matthew Gonzalez</b> <i>MMRP</i> <b>Availability: 20%</b> <b>Labor Category:</b> Cultural Resource Specialist II <b>Education:</b> B.A., Classical Archaeology</p>	<ul style="list-style-type: none"> <li>• More than 13 years of monitoring experience in California</li> <li>• Regularly prepares monitoring reports and provides safety and sensitivity trainings to construction and other project staff, as well as prepares technical reports in support of CEQA, NEPA, Section 106, and environmental compliance documents.</li> <li>• Trained archaeologist and cross-trained paleontologist</li> </ul>
<p><b>Robbie Sweet</b> <i>Biological Surveys/Monitoring &amp; Reporting; Agency Consultation, Permitting and Procurement; Wetland Delineations; MMRP</i> <b>Availability: 20%</b> <b>Labor Category:</b> Senior Biologist I <b>Education:</b> B.S., Environmental Science and Resource Management</p>	<ul style="list-style-type: none"> <li>• 12 years of experience as a terrestrial biologist conducting biological resource assessments and focused rare plant surveys, monitoring restoration projects, wetland delineations, and preparing subsequent reporting tasks.</li> <li>• Has drafted numerous technical documents, such as focused rare plant and protocol-level survey reports, post-construction monitoring reports, biological assessment reports, restoration monitoring reports, and MND and EIR sections, in support of CEQA.</li> </ul>
<p><b>Terah Donovan</b> <i>Agency Consultation, Permitting &amp; Procurement; NCCP/HCP</i> <b>Availability: 20%</b> <b>Labor Category:</b> Principal Biologist I <b>Education:</b> MEM, Environmental Management, Conservation Science and Policy; B.A., Environmental Science</p>	<ul style="list-style-type: none"> <li>• Extensive experience managing large-scale Habitat Conservation Plans in California, from planning phase to plan implementation.</li> <li>• Provides agency coordination and permitting for HCP/NCCP projects including USFWS, CDFW, USACE, and RWQCB.</li> </ul>
<p><b>Travis Marella, QSP</b> <i>Biological Surveys/Monitoring &amp; Reporting; MMRP</i> <b>Availability: 20%</b> <b>Labor Category:</b> Senior Biologist I <b>Education:</b> B.S., Environmental Studies, Aquatic Ecology emphasis</p>	<ul style="list-style-type: none"> <li>• Senior fisheries/aquatic biologist with eight years of extensive experience in freshwater, estuarine, and marine ecosystems, sensitive species surveys, water quality sampling, data collection, monitoring and analysis, permitting, technical reporting, and project management.</li> <li>• Holds USFWS recovery permit for tidewater goby.</li> <li>• Experience working with numerous sensitive fish, reptile, amphibian, avian, and invertebrate species.</li> </ul>

## SECTION 3 Experience

**Table 3-1** provides as summary of ESA’s relevant experience with biological resources services including species surveys, monitoring, permitting, agency consultations, and environmental compliance, including our recent experience with on-call services contracts. ESA’s breadth of project experience provides IRWD with the best combination of regional perspective and local understanding of IRWD’s environmental compliance needs.

**Table 3-1: Summary of Relevant Experience**

**On-Call / As-Needed Contracts**

**IRWD General Environmental Services On-Call CEQA/ NEPA.** ESA is currently providing IRWD with on-call CEQA/NEPA services, biological surveys, regulatory permitting, construction compliance monitoring, and associated technical analyses. Projects under this contract have ranged from categorical exemptions for battery storage facilities, to EIR addenda for treatment plant and groundwater well projects, to biological and cultural resources construction/mitigation monitoring.

**IRWD Staff:** Paul Weghorst, Christian Kessler, Jo Ann Corey, Richard Mori, Fiona Sanchez, Kellie Welch, Ian Swift, Ray Bennett, Lyndy Lewis

**Eastern Municipal Water District As-Needed Environmental Services.** EMWD As-Needed Environmental Services. Since 2013, ESA has provided EMWD with as-needed environmental services, including CEQA/NEPA documentation; technical studies for biological and cultural resources; air quality and climate change; noise and traffic; aesthetics; and Riverside County MSHCP compliance.

**Client Contact:** Joseph Broadhead, Principal Water Resource Specialist, P: 951.928.3777 ext. 4545

**California Department of Water Resources On-Call Environmental Planning Services.** ESA has been the provider of on-call Environmental Planning Services for the DWR Southern Division since 2006. ESA is preparing environmental analyses, biological surveys, technical documentation, and permitting, Endangered Species Act compliance, MSHP compliance, and construction monitoring for various projects along the State Water Project such as Castaic Dam High Intake Tower Access Bridge Retrofit Project, Perris Dam Remediation Program EIR and Permitting, Perris Dam Emergency Release Facility Project, and the East Branch Extension (EBX) Phase II.

**Client Contact:** Gina Radieva, Senior Environmental Scientist, P: 916.651.2458

**Los Angeles County Department of Public Works Flood Management District, On-Call Environmental Services.** ESA supported the LACDPW by providing a full array of environmental services under a 5-year on-call services contract. ESA's in-house team of professional planners, biologists, and technical specialists responded to a wide range of planning, permitting, and compliance needs for routine and emergency operations and maintenance activities with qualified technical experts in all environmental disciplines. Over 80 projects were authorized under this contract, including preparation of regulatory permits (404, 401, and 1602), biological and cultural resources surveys and reports, focused surveys for federally and/or state-listed species, wetland delineations, compliance/mitigation monitoring and reporting, air and water quality sampling, and preparation of CEQA documents.

**Client Contact:** Nandini Moran, Civil Engineer, P: 626.458.7810

**Inland Empire Utilities Agency, On-Call Environmental Services.** ESA has been providing on-call environmental services for IEUA since 2012, including for CEQA/NEPA compliance documentation; regulatory permitting; and technical services such as biological assessments, species surveys, jurisdictional delineations, regulatory permitting, SWPPPs, cultural resource surveys, and mitigation monitoring.

**Client Contact:** Bonita Fan, Senior Environmental Resources Planner – Regulatory Compliance, P: 909.993.1716

**Individual ESA Projects**

**Irvine Ranch Water District, Syphon Reservoir Geotechnical Investigations Project IS/MND.** The Geotechnical Investigations Work Plan (GIWP) is providing details about the geologic and geotechnical baseline conditions at Syphon Reservoir. This work is necessary in order to inform the design of an enlarged reservoir, which will provide the IRWD service area with a more reliable water supply. The Final IS/MND was adopted by IRWD in June 2019. ESA provided extensive biological surveys and cultural surveys in support of the IS/MND; assisted IRWD with AB52 process for Tribal consultation; facilitated coordination with USFWS and CDFW for mitigation associated with the County of Orange NCCP and Grant Deed restrictions for the site; and secured a Jurisdictional Determination from the U.S. Army Corps of Engineers and Streambed Alteration Agreement from CDFW in less than one year.

**IRWD Staff:** Jo Ann Corey, Fiona Sanchez, Scott Toland, Richard Mori

**IRWD Total Nitrogen/Total Phosphorus Offset Plan.**

ESA prepared the Offset Plan to address the requirements of the NPDES Amended Order to allow for the diversion of dechlorinated tertiary effluent from Michelson Water Recycling Plant to Reach 1 of San Diego Creek under emergency conditions. The plan documented how IRWD intends to monitor, calculate, and report total nitrogen and phosphorous removal credits to the Santa Ana RWQCB.

**IRWD Staff:** Fiona Sanchez, Richard Lao, Ian Swift, Jose Zepeda, Linda Orozco

**Table 3-1: Summary of Relevant Experience**

**IRWD Peters Canyon Water Capture and Channel Reuse Pipeline Project.** ESA assisted IRWD with developing a cost-effective solution for the disposal of Peters Canyon Channel flows that contain high nitrate and selenium concentrations. The Peters Canyon Channel Water Capture and Reuse Pipeline Project will divert high selenium nuisance surface and groundwater flows to the Orange County Sanitation District for treatment and reuse. ESA provided a Reduced Discharge Technical Study and biological technical reports to document project impacts to flow and water quality downstream from the proposed diversion points, including impacts within Peters Canyon Channel, San Diego Creek, and IRWD's San Joaquin Marsh. ESA completed a hydrology and water quality study to assess the potential for impacts to the function of habitats in the San Joaquin Marsh from these diversions. ESA also prepared an IS/MND which was certified and approved by the IRWD Board of Directors in April 2015.

**IRWD Staff:** Ray Bennett, Jo Ann Corey, Paul Weghorst, Ian Swift, Joe McGehee

**IRWD San Joaquin Marsh Operating Guidelines and Resource Management Plan Update.** ESA is assisting IRWD to update and refine the IRWD (2006) San Joaquin Marsh (SJM) Operating Guidelines. Through this process, IRWD seeks to develop an effective and comprehensive operation protocol to manage the 300-acre SJM freshwater wetland ecosystem for natural water treatment and document the protocol in a new SJM Operating Guidelines and Resource Management Plan (OG&RM Plan). These wetlands, consisting of a set of over a dozen connected ponds and cells, and adjacent lowland and transitional habitat areas, naturally treat urban runoff from San Diego Creek (SDC), which in turn helps protect the environment of Upper Newport Bay and the ocean. Key objectives are to balance influent and effluent flows, enhance water quality, maximize nutrient removal, provide constant flows for stream operations, and provide and maintain critical migratory habitat for shorebirds and waterfowl. ESA has completed a water quality assessment and is preparing to update the OG&RM Plan.

**IRWD Staff:** Ian Swift, Mo Wise

**DWR, East Branch Extension (EBX) Phase II.** ESA prepared an EIR, including biological and cultural surveys, which analyzed several pipeline alignments across the Santa Ana River, as well as provided planning and permitting support. ESA met with the USACE, USFWS, CDFW, and RWQCB personnel on several occasions to review the project. ESA worked closely with DWR staff to complete permit applications, including the Biological Assessment pursuant to Section 7 of the FESA. ESA coordinated with agency staff as needed to complete the application packages and provided agency staff information as requested to complete the permits. ESA successfully obtained all the natural resources permits needed to begin construction on the project, including Section 404, 401, incidental take authorizations, Streambed Alteration Agreements, and Section 7 approvals. As a component of the Section 7 compliance with USFWS, ESA prepared a restoration plan for the project impact areas, including upland and wetland areas. The restoration project is in the process of requesting regulatory agency sign-off after 3 years, which is 2 years ahead of schedule.

**Client Contact:** Christine Carlton, Chief, Environmental Coordination Section, DOE; P: 916.653.9734

**Financial Size:** \$3,521,565; **Project Dates:** 2007-2016

**Los Angeles County Department of Public Works, Dominguez Gap Wetland Vegetation Management, Permitting, and Monitoring.** As part of the operations and maintenance activities of the Dominguez Gap Wetland, a constructed treatment wetland, the LA County Flood Control District (LACFCD) removed wetland vegetation annually to maintain the functionality of the wetland and for vector control maintenance. ESA worked with LACFCD staff to develop an appropriate method for vegetation management activities, prepared a notification of lake or streambed alteration for submittal to CDFW, worked with LACFCD to obtain appropriate permits/ authorization from USACE and the Los Angeles RWQCB, and performed biological monitoring in compliance with permit conditions.

**Client Contact:** Nandini Moran, Civil Engineer, P: 626.458.7810

**Financial Size:** \$12,800; **Project Dates:** 2014-2016

**City of Newport Beach, Big Canyon Selenium Reduction, Natural Treatment and Creek Restoration.** ESA is working with our project partners on the design, permitting, and implementation of selenium reduction measures, stormwater collection and treatment using natural treatment system, and creek and riparian habitat restoration for the first phase of the Big Canyon Preserve Water Quality and Restoration Project. ESA provided the CEQA documentation, prepared and submitted the permits under an aggressive timeline for all the project components that include diversion of dry-weather flows to the local sanitary sewer, diversion of creek flows to avoid impact from selenium seeps, construction of a treatment wetland facility within the reserve and restoration of the creek. Permits were prepared, submitted, and approved within a 12-month timeline. ESA also provided water quality expertise and stream hydrology and geomorphology experience in the design of the creek restoration. ESA completed biological monitoring and restoration oversight of the phase 1 construction in 2017. ESA also prepared the Habitat Mitigation and Monitoring Report and Restoration and Revegetation/ Landscape Plans and Specifications. ESA is working with the UC Riverside, City of Newport Beach, and CDFW to address an infestation of the invasive shot-hole borer.

**Client Contact:** Robert Stein, Assistant City Engineer P: 949.644.3322

**Financial Size:** \$300,000; **Project Dates:** 2015-2018

**Table 3-1: Summary of Relevant Experience**

**San Bernardino Valley Municipal Water District, Sterling Natural Resource Center Project.** ESA prepared an EIR for the San Bernardino Valley Municipal Water District (SBVMWD) as the lead agency for the proposed construction of a new wastewater treatment facility, the Sterling Natural Resource Center (SNRC) in Highland, California. ESA conducted surveys for the state- and federally-listed endangered least Bell's vireo; the federally-threatened San Bernardino kangaroo rat; the federally-threatened Santa Ana sucker; and for two state and federally endangered plant species, the Santa Ana River woollystar and slender-horned spinyflower; and conducted a hydrology study of the Santa Ana River. ESA also prepared permit applications needed to construct facilities and divert flows from Rapid Infiltration and Extraction facility, including Section 404 (USACE), SAA 1600 (CDFW), and a Biological Assessment to comply with Section 7 (USFWS). The USFWS issued a Biological Opinion for the project that provided for take of Santa Ana sucker in 2016.

**Client Contact:** Heather Dyer, Water Resources Project Manager, P: 909.387.9256

**Financial Size:** \$650,000; **Project Dates:** 2015-2017

**California Water Services Company, Palos Verdes Peninsula Water Reliability Project.** ESA provided a full suite of environmental services for the Palos Verdes Peninsula Water Reliability project. The proposed project involves the construction of approximately seven miles of buried potable water pipelines and a new booster pump station to replace the current water distribution system serving the Palos Verdes Peninsula. The project would cross multiple jurisdictions, including the cities of Rolling Hills Estates and Rancho Palos Verdes, and portions of unincorporated Los Angeles County. ESA conducted a Biological Resources Assessment and Phase I Cultural Resources Assessment for the proposed project, prepared an Initial Study/MND, and assisted in obtaining local, state and federal permits including the Section 404 permit, Section 401 Water Quality Certification, and Section 1602 Streambed Alteration Agreement. ESA is currently conducting nesting bird surveys and monitoring during construction of the project, to ensure compliance with required mitigation measures and regulatory permits.

**Client Contact:** Dale Gonzales, Environmental Manager, P: 408.367.8324

**Financial Size:** \$215,000; **Project Dates:** 2010-Present

#### **Alta Environmental Projects**

**IRWD, Alternative Excess Recycled Water Supply Management Strategy, Preliminary Feasibility Study.** Alta prepared an Alternative Recycled Water Management Strategy for IRWD. The study assessed surplus recycled water during periods of excess supply using existing public infrastructure and under-utilized flood storage in the Peters Canyon Reservoir. In addition to requiring only limited capital, operation and maintenance costs, this strategy eliminated the need to discharge to the OCSD or Upper Newport Bay, provided for increased water conservation and facilitated restoration of habitat, aesthetic and recreational beneficial uses of affected and utilized receiving waters, and reduced the need for disposal of recycled water. Alta also provided a preliminary feasibility assessment and summary of design maintenance elevations and storm runoff storage elevations and volumes. Alta evaluated the potential feasibility of use of Peters Canyon Reservoir for storage of excess produced recycled water, prepared maps and narratives identifying the watershed tributary to Peters Canyon Reservoir and developments in the watershed since modifications to the reservoir in the early 1980's, existing stream courses in the watershed, and planned modifications to drainages associated with planned development. The project study was completed on time and within budget.

**Client Contact:** Ian Swift, Natural Resources Manager, P: 949.453.5864

**Financial Size:** \$15,000; **Project Dates:** 2017-2018.

**City of Carlsbad, NPDES MS4 Monitoring and Assessment.** Alta is performing monitoring and assessment of the water quality and quantity of discharges from the MS4, pollutant sources and/or stressors, and supporting effectiveness assessment of the water quality improvement strategies implemented as part of the Water Quality Improvement Plan (WQIP). Alta's scope of services includes implementing non-storm water persistent flow MS4 outfall discharge monitoring, dry weather special study monitoring, Illicit Discharge Detection Elimination investigations, MS4 outfall visual observations, and assessment and reporting of the monitoring programs. Alta is implementing the dry weather special study to characterize temporal flow and fecal indicator bacteria at selected persistently flowing major MS4 outfalls during dry weather conditions.

**Client Contact:** Tim Murphy, Watershed Protection Manager, P: 760.602.7587

**Financial Size:** \$40,000/year; **Project Dates:** 2015-Present

## SECTION 4 Schedule

### Responsiveness

ESA is a seasoned on-call environmental consultant serving public and private entities. In some cases, project assignments are initiated on short notice with a quick turn-around time required. In many cases, ESA has signed a master services agreement specifically to facilitate quick project turnarounds. Depending on the nature of the project, ESA is poised to respond within hours, if needed. Moreover, due to our Irvine office's proximity to IRWD Headquarters and central location within the overall jurisdiction, we can participate in on-site meetings or be at an IRWD project site with short notice, if necessary; these attributes are incumbent of an extension of staff. ESA prides itself on the ability to deliver high quality

consultation and documentation to meet the specific needs of specific task assignments under other on-call contracts and ESA will perform and provide this high quality work for all projects undertaken for IRWD.

## Project Schedule

ESA believes that time is always of the essence and will address each request and task order in that respect. ESA is committed to keeping the project on schedule when circumstances are within our control. ESA understands that delays in development and infrastructure improvements during the environmental review process invariably lead to an increase in the overall budget for the project. ESA often employs Microsoft Project as a flexible scheduling tool that is readily updated to reflect potential changes in the schedule beyond ESA’s control, should they arise, with adjustments quickly expressed in real time, and the ESA project management team will work with IRWD to use the preferred scheduling tools. Through continuous tracking, the Project Manager will be able to determine at any point in the process, if there is any deviation from the planned schedule and budget and make necessary adjustments.

## SECTION 5 Fee Schedule

The range of rates shown for each staff category reflects ESA staff qualifications, expertise and experience levels. These rate ranges allow our project managers to assemble the best project teams to meet the unique project requirements and client expectations for each opportunity. Subcontract services will be invoiced at cost multiplied by 1.15.

### Environmental Science Associates | 2020 Schedule of Fees

Labor Category	Level I	Level II	Level III
Senior Principal Biologist/Environmental Scientist/Planner	220	230	240
Principal Biologist/Environmental Scientist/Planner	200	210	215
Managing Biologist/Environmental Scientist/Planner	160	175	185
Senior Biologist/Environmental Scientist/Planner	135	145	155
Biologist/Environmental Scientist/Planner	95	105	120
Project Technician	80	190	100

Item	Rate/Day	Rate/Week	Rate/Month
Vehicles – Standard size	\$ 40	\$ 180	
Vehicles – 4x4 /Truck	85		
Hydroacoustic Noise Monitoring Equipment	150		
Field Traps	40		
Wildlife Acoustics Bat Detector	125	400	
Wildlife Trail Camera	30	100	
RTK-GPS	300	1,200	
RTK-GPS Smartnet Subscription	50	200	
Trimble GPS	75	350	900
iPad/Android Tablet + 1m GNSS External Sensor (Trimble R1, Bad Elf)	75	350	900
iPad/Android Tablet only (includes Garmin Glo external sensor)	50	225	600
Garmin GPS or equivalent	25		250

## Expenses

- A. Travel Expenses
  - Company vehicle – IRS mileage reimbursement rate
  - Common carrier or car rental, lodging, meals and related travel expenses – direct expenses multiplied by 1.15
- B. Communications Fee
  - In-house costs for phone, e-mail, fax, regular postage, walk-up copier, and records retention – project labor charges multiplied by 3%

### C. Printing/Reproduction Rates

Item	Rate/Page	Sample Pricing
Black & White – 8.5 x 11	\$0.10	
Black & White – 11 x 17	\$0.20	
Color – 8.5 x 11	\$0.40	
Color – 11 x 17	\$0.70	
B&W – Plotter (Toner – ECO Quality)	\$0.40/sf	24x36 B/W CAD drawing would cost \$2.40 per sheet
B&W – Plotter (Toner – Presentation Quality)	\$1.00/sf	24x36 B/W CAD drawing would cost \$6.00 per sheet
Color – Plotter (Inkjet – ECO Quality)	\$2.00/sf	24x36 Color Drawing would cost \$12 per sheet
Color – Plotter (Inkjet – Presentation Quality)	\$4.00/sf	24x36 Color Drawing would cost \$24 per sheet
CD	\$10.00	
Digital Photography	\$20.00 (up to 50 images)	
All Other Items (including bindings and covers)	At cost plus 10%	

### Alta Environmental Schedule of Fees

IRWD Contract Rates			IRWD Contract Rates		
Title	Key Personnel	Hourly Rate	Title	Key Personnel	Hourly Rate
Senior Principal		\$ 295.00	Associate II	M. Hallack	\$ 140.00
Principal	David Renfrew	\$ 265.00	Associate I		\$ 130.00
Senior III	G. Engelhorn	\$ 200.00	Specialist III		\$ 100.00
Senior II	J. Peterson	\$ 190.00	Specialist II		\$ 95.00
Senior I	J. McMillen	\$ 180.00	Specialist I		\$ 80.00
Staff III	M. Renaud	\$ 175.00	Financial Analyst III		\$ 200.00
Staff II (Engineer)		\$ 165.00	Financial Analyst II		\$ 115.00
Staff I		\$ 155.00	Administrative I		\$ 75.00
Associate III		\$ 150.00	Intern		\$ 70.00

## SECTION 6 Joint Venture and Subcontractors

ESA does not propose to utilize any joint venture during the course of this contract. As mentioned previously, we have invited Alta Environmental to join our team to provide Water Quality, Storm Water Monitoring, and Reporting services. Alta’s qualifications and experience can be found in **Section 3**, and the qualifications and experience of their staff can be found in **Section 2** and **Appendix A**.

## SECTION 7 Conflict of Interest

To the best of our knowledge, ESA does not have existing personal, financial, and/or organization conflicts of interest prohibited by law.”

## SECTION 8 Insurance

If selected to provide the services under this contract, ESA is prepared to furnish IRWD with acceptable evidence showing that the insurance coverage required has been procured. ESA has insurance coverage of \$1 million each for general liability, property damage, worker’s compensation, automobile, and professional liability. We will provide proof of insurance through our carrier, Woodruff-Sawyer & Co., upon award of this contract. A copy of our certificate can be found in **Appendix B**.

## SECTION 9 Contract

ESA has reviewed the copy of IRWD’s professional service agreement, attached to the RFP and we have no modifications to the standard terms and conditions.



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# EXHIBIT "I"

**PSOMAS**

Balancing the Natural and Built Environment

January 30, 2020

Fiona M. Sanchez, Director of Water Resources  
Irvine Ranch Water District  
15600 Sand Canyon Avenue  
Irvine, CA 92618

Subject: Proposal for On-Call Biological Monitoring and Permitting Services

Dear Ms. Sanchez:

Psomas is pleased to provide a proposal to the Irvine Ranch Water District (IRWD) for On-Call Monitoring and Permitting Services. Psomas' team of highly qualified professionals have a long and successful history applying their knowledge of biological and regulatory expertise to assist clients with project strategies, document and permit preparation, and implementation of post-project requirements. Several of the biological team members proposed have recently worked for IRWD under Psomas' On-Call CEQA and NEPA Consultation On-Call Contract.

Our team routinely works with local public agencies on a wide variety of infrastructure construction, operations, and maintenance projects for water agencies, public works, utilities, and transportation agencies. Our work includes assisting with project concept planning and carries through field surveys, reporting, permit processing, and all phases of project mitigation monitoring (from pre-construction surveys to post-construction documentation). Psomas will provide qualified technical staff who will work collaboratively with IRWD to complete projects within established budgets and required timeframes while helping to navigate numerous environmental laws and regulations.

The Psomas Team will be led by Amber Heredia as Project Manager for this Contract; she will also be the day-to-day contact with IRWD. Amber is a Senior Project Manager with 23 years of experience managing biological monitoring and permitting services for a variety of project types including water and wastewater infrastructure, flood control, and utility projects. Of particular importance to this effort is Amber's experience implementing various multiple species habitat conservation plans in the region, including substantial experience with the Orange County Central-Coastal Natural Communities Conservation Plan (NCCCP)/Habitat Conservation Plan (HCP).


Ann Johnston, will serve as Principal-in-Charge and Quality Assurance (QA)/Quality Control (QC) Manager for this effort. Ann has 31 years of experience in overseeing biological resource documentation and permitting. Ann's professional focus is on finding solutions to development challenges where potential impacts to biological resources may occur. As Vice President and Principal of Psomas, Ann Johnston is authorized to legally bind Psomas in a contract with IRWD.

Psomas' Resource Management Team includes many qualified Biologists. This allows us to balance workload to serve IRWD quickly and efficiently, and ensures availability for multiple, concurrent IRWD task orders. We have also included MBC Aquatic Sciences (MBC) to support Psomas on water quality, storm water monitoring, and reporting tasks.

We appreciate the opportunity to submit the enclosed proposal. Please feel free to contact us with any questions at 714.751.7373 or [Ann.Johnston@Psomas.com](mailto:Ann.Johnston@Psomas.com), or [Amber.Heredia@Psomas.com](mailto:Amber.Heredia@Psomas.com).

Sincerely,

**PSOMAS**

  
Ann M. Johnston  
Vice President/Principal

  
Amber O. Heredia  
Senior Project Manager

3 Hutton Centre Drive  
Suite 200  
Santa Ana, CA 92707

Tel 714.751.7373  
[www.Psomas.com](http://www.Psomas.com)

## FIRM PROFILE

Dedicated to balancing the natural and built environment, Psomas provides sustainably engineered solutions to public and private clients. Psomas, a California Corporation, founded in 1946, is a multifaceted consulting firm with over 600 employees, providing our core services of environmental consulting, civil engineering, survey and mapping, and construction management. While the firm as a whole offers a wide variety of services, Psomas' Resource Management Services is capable of supporting the needs that are relevant to the Irvine Ranch Water District's On-Call Biological Monitoring and Permitting Services contract. Psomas' Resource Management Services specialize in providing the following services in support of California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA) documentation.

### Regulatory Compliance Expertise

- Federal Endangered Species Act (FESA)
- California Endangered Species Act (CESA)
- Clean Water Act (CWA)
- Migratory Bird Treaty Act (MBTA)
- California Fish and Game Code
- California Coastal Act
- Porter-Cologne Water Quality Act
- Natural Community Conservation Plan (NCCP) Planning Act

### Agency Coordination Experience

- California Department of Fish and Wildlife (CDFW)
- Army Corps of Engineers (USACE)
- US Fish and Wildlife Service (USFWS)
- US Environmental Protection Agency (USEPA)
- Regional Water Quality Control Board (RWQCB)
- State Water Resources Control Board (SWRCB)
- South Coast Air Quality Management District (SCAQMD)
- County of Orange and Local Cities
- Natural Communities Coalition (NCC), formerly Nature Reserve of Orange County (NROC)

Psomas' goal is to establish long-lasting, positive, and productive working relationships with our clients. Our project management style is rooted in our commitment to provide accurate and comprehensive consulting services; timely and cost-effective reports and documents; and regulation compliant document processing.

## PROJECT APPROACH

Psomas will provide Irvine Ranch Water District (IRWD) with as-needed environmental permitting and monitoring services. Ann Johnston (Principal in

Charge), Amber Heredia (Biological Project Manager), and Jennifer Marks (CEQA Project Manager) have worked together for over 20 years. As such, the project management team works seamlessly together and will respond quickly to IRWD's needs, which may include strategic planning discussions, scopes of work, pre-construction surveys, monitoring, and/or a variety of other survey or documentation needs. Psomas has built its reputation on providing high-quality technical documents and being extremely responsive to clients' needs, especially when timing is critical to keeping a project on schedule. Psomas has the depth of experience to provide practical and solution-oriented advice to our clients.

Ann and Amber have both worked with multiple Participating Entities in the Central-Coastal Natural Community Conservation Plan/Habitat Conservation Plan (NCCP/HCP), including IRWD, The Irvine Company, and the County of Orange (OC Public Works, OC Waster & Recycling, OC Parks, and OC Land and Development). As such, they have a thorough understanding of the plan's implementation. Psomas has earned the trust of the regulatory agencies and has an excellent reputation with each of them for providing high-quality work. Psomas has a team of biological, regulatory permitting, and CEQA specialists who provide the technical skills and knowledge of regulatory requirements needed, while MBC Aquatic Sciences will provide water quality monitoring that may be needed to accomplish IRWD's needs during the on-call contract period as described in the tasks below.

The Psomas Team also has extensive experience working with other water infrastructure agencies, including Santa Margarita Water District, Eastern Municipal Water District, Riverside County Flood Control and Water Conservation District, OC Sanitation District, OC Public Works, and Los Angeles County Public Works. This experience brings an understanding of working on linear projects through or adjacent to native habitats. Environmental documentation should be tailored to the project, and not a one-size-fits-all approach. Where applicable, Psomas highlights limited duration of project activities and/or limited extent of impacts (e.g., construction within a roadway adjacent to habitat or within an existing facility) to accurately characterize indirect project impacts on biological resources.

The discussions on the following pages identify the tasks that may be required as part of this on-call contract. We have briefly identified our expertise with the expected tasks and highlighted work efforts undertaken for other clients that demonstrate our experience in providing the services requested by IRWD. Examples of projects completed for public agencies are referenced to highlight

our expertise for each task. Select project descriptions are included in Attachment A, Relevant Project Experience.

### **Task 1: Land Use Planning**

Environmental Services at Psomas includes two teams, Environmental Planning and Resource Management. Both teams are extremely familiar with land planning processes in the County and cities within and adjacent to the IRWD service area. Staff from both the Environmental Planning and Resource Management Teams have worked on projects for the cities in the service area, including Irvine, Lake Forest, Costa Mesa, Newport Beach, Tustin, and Orange. Our two disciplines are complementary and regularly collaborate on issues and ideas, allowing us to serve our clients well and provide efficient, strategic, and cost saving products. However, our teams also often work independently with other firms, as each project has a unique combination of players.

As a result of this long-held structure, the Biologists, Regulatory Specialists, and Restoration Ecologists on our Resource Management Team are embedded into the Psomas land use projects and work closely with their Environmental Planning co-workers on a daily basis. Our Resource Management staff have provided decades of biological resource support documentation for Environmental Planning staff, including biological surveys and jurisdictional delineations in support of CEQA/NEPA documentation, biological resources sections of CEQA/NEPA documents, response to comments, and attendance/presentations at public hearings.

Psomas understands the goals and objectives of the IRWD and is familiar with the planning processes of the varying public entities (cities/County) where IRWD projects occur. Given the linear nature of many IRWD projects, a single project could span multiple jurisdictions, which sometimes have competing or conflicting objectives. Psomas will assist IRWD in understanding potential issues and will work collaboratively with the various entities to address issues before they become problematic, as we have with IRWD and other public and private entities in the region. Our recent work effort with IRWD on the Irvine Pipeline North Conversion Project and associated Zone A to Rattlesnake Reservoir Pump Station Project are excellent examples of our Resource Management Team's ability to work with Environmental Planners and IRWD engineers.

Additional projects that highlight our land use planning capabilities include:

- Santa Margarita Water District, Chiquita Water Reclamation Plant Solar Project
- Santa Margarita Water District, Coto de Caza Pump Station Expansion

- Eastern Municipal Water District, Murrieta Road Transmission Pipeline Project
- Riverside County Flood Control and Water Conservation District, Good Hope-Olive Avenue Storm Drain Project
- Lowe Enterprises, West Alton Parcel Development Plan
- County of Orange, Alton Parkway Extension Project

### **Task 2: Regulatory Agency Consultation, Permit Application, and Procurement**

Psomas has experience and excellent working relationships with the USFWS, CDFW, RWQCB, SWRCB, USEPA, USACE, NCC (formerly NROC), and SCAQMD. Psomas works with one or more of these agencies on nearly every project, especially those that involve permitting impacts to jurisdictional waters.

Dr. Brad Blood, Regulatory Permitting Manager, has over 40 years of experience in biological consulting with a specialty in jurisdictional permitting. He understands that where jurisdictions overlap, each agency's regulations and requirements must be met; however, he also works towards the same mitigation strategy with each agency so that the same mitigation plan will address the requirements of multiple agencies to the extent possible. Through his extensive experience in processing regulatory permits, he has developed close working relationships with personnel in the regulatory agencies.

Regulatory consultations often include an additional layer of compliance with FESA and CESA. Amber Heredia and Ann Johnston have both provided support in numerous Section 7 Consultations, including those for some of the most contentious projects in Orange County. They have attended many pre-application field meetings to discuss the findings and proposed mitigation strategies to avoid and minimize impacts on Threatened, Endangered, and other special status species. They have authored many Biological Assessments (document for Section 7 of the Endangered Species Act) and Determination of Biological Superior or Equivalent Preservation Reports (i.e., corresponding document under the Western Riverside Multiple Species Habitat Conservation Plan [MSHCP]).

Amber is currently the lead author of a HCP (document under Section 10 of the Endangered Species Act) for Operation and Maintenance of Big Tujunga Dam for the Los Angeles County Department of Public Works. As lead author on this Draft HCP, which is nearing completion, Amber has led monthly meetings with LA County Public Works, Los Angeles Department of Water and Power, USFWS, and CDFW since December 2016. She has also addressed comments from each of the agencies during preparation of each HCP section. Through this process, Amber has provided a bridge between water agency engineers/hydraulic experts and

resource agency staff. As Principal-in-Charge, Ann has provided oversight throughout the process.

Our Resource Management Team as a whole is experienced in implementing the long-term requirements of regulatory permits, including attending meetings with resource agency staff. Psomas has provided biological support services for the San Diego Creek, Reach II (Interstate [I]-405 to Campus Drive) Operation and Maintenance Project under our ongoing on-call contract with the County of Orange. Psomas conducts various biological surveys and meets with resource agency staff prior to the annual fall maintenance activities. Jonathan Aguayo, Psomas Senior Biologist, has earned the respect of resource agency staff and has attended the annual field meeting without the Project Manager for several years.

Below are some example projects that involved regulatory agency permitting and coordination:

- Los Angeles County Public Works, HCP for Big Tujunga Dam Operation and Maintenance Project
- OC Public Works, San Diego Creek Reach II Operation and Maintenance Project
- OC Public Works, Edinger Avenue Bridge Repair Project
- County of Orange, Biological Assessment for the Alton Parkway Extension
- Transportation Corridor Agencies, State Route (SR)-241 Extension Biological Assessment

### **Task 3: Wetland Delineation**

Psomas Regulatory Specialists and Biologists have the technical background, experience, and necessary training to conduct wetland delineations subject to the regulations of the USACE, CDFW, and RWQCB. Using the most recent guidelines from the resource agencies, Regulatory Specialists conduct field surveys/assessments to define the jurisdictional boundaries of each agency. Our Regulatory Specialists have also been trained to conduct California Rapid Assessment Method (CRAM) Analyses, Surface Water Ambient Monitoring Program (SWAMP) Assessments, and Candidate Mitigation Site Evaluations, if needed. Our delineations are then incorporated into the required documentation needed for specific projects, which may include Preliminary Jurisdictional Site Assessments and/or Jurisdictional Delineation Reports.

Psomas has the experience required to provide IRWD with wetland delineation services in support of capital, operations, and maintenance projects. Our team has conducted jurisdictional delineations and obtained regulatory permits for numerous projects throughout Southern California. Psomas also has experience in

obtaining Long-Term Streambed Alteration Agreements and Section 401 Water Quality Certifications.

In addition to providing regulatory services, Psomas has also worked with other consulting firms to incorporate delineations conducted by other firms into our project documentation. Amber Heredia was the Project Manager for the I-405 Widening from SR-55 to I-5 Natural Environment Study (NES) (i.e., Biological Technical Report for Caltrans) prepared for Orange County Transportation Authority (OCTA). The NES was prepared consistent with the OCTA Measure M Project HCP and the San Diego Creek Special Area Management Plan (SAMP); Psomas also incorporated baseline data (e.g., known species occurrences) from the Central-Coastal NCCP/HCP, as applicable, since the project occurred within the boundaries of the Central-Coastal NCCP/HCP. The NES analysis included incorporation of a jurisdictional delineation prepared by another consulting firm. Amber summarized the SAMP and ICF's Jurisdictional Delineation, determined project impacts, and prepared a NES mitigation measure consistent with the SAMP.

The following are some example projects for wetland delineations:

- OC Public Works, Edinger Avenue Bridge Repair Project
- OC Public Works, Wagon Wheel Creek Restoration Project

### **Task 4: Biological Survey, Monitoring, Assessment**

The Psomas Resource Management Team is comprised of Biologists who have a mix of botanical and wildlife expertise with technical specialties that cover any special status plant or wildlife species that occurs in Orange County. Each Biologist is trained to conduct general reconnaissance surveys, biological constraints assessments, and habitat assessments for Threatened and Endangered species. Because of this, we can send one Biologist to assess the potential for multiple resources issues. If follow-up focused surveys are necessary, our in-house team contains a range of specialists. Additionally, our team includes multiple individuals with similar expertise, allowing us to concurrently staff multiple projects, often on short notice. Our specialists conduct habitat assessments, focused surveys to determine the presence or absence of special status species, and monitoring during project construction. Our Resource Management Team is supported by multiple Geographic Information System (GIS) staff, who have access to georeferenced digital imagery to provide field maps that can be emailed to Biologists for use on iPads, allowing for quick mobilization as well as quick transmission of

survey results back to GIS, and timely mapping of survey results back to the client. Time can become a critical factor during monitoring for a construction project.

Psomas Team technical staff have provided a variety of biological consulting services for public agencies and private entities in Southern California, with many projects occurring in the vicinity of IRWD projects in Orange County. Our team's extensive qualifications are demonstrated by the type and range of biological services we have provided to our clients for over 25 years. A summary of these services has been provided below.

### **Biological Analysis, Documentation, and Implementation Services**

- Literature Reviews
- Vegetation and Habitat Mapping
- Wildlife Movement Analyses, Design Support, and Monitoring
- Plant and Wildlife Habitat Assessments
- Special Status Plant and Wildlife Focused Surveys
- Arborist Surveys
- Nesting Bird Surveys
- Bat Roost Surveys
- Camera Monitoring of Burrows
- Biological Opportunities/Constraints Reports
- Habitat Assessments
- Biological Technical Reports
- Biological Assessments (to support FESA Section 7 consultations)
- Biological Resources Sections for CEQA/NEPA Documentation
- CDFW Wildlife Consistency Determinations/Take Authorizations (to support CESA consultations)
- Various NCCP/HCP Reporting and Permit Compliance Documentation
- Agency Consultation and Regulatory Permitting
- Habitat Mitigation Planning
- Mitigation Monitoring and Reporting
- Construction Monitoring and Contractor Education
- Benthic Macroinvertebrate (BMI) Bioassessments
- CRAM and SWAMP Assessments
- Peer Review of Technical Analyses

### **Special Status Species**

- Fairy Shrimp
- Arroyo Chub
- Arroyo Toad
- Western Spadefoot
- Western Pond Turtle
- Coastal California Gnatcatcher
- Southwestern Willow Flycatcher
- Least Bell's Vireo
- Western Yellow-Billed Cuckoo
- Tricolored Blackbird

- Burrowing Owl
- Special Status Bats

Amber Heredia has 21 years of experience working with biological resources in Orange County, including several projects within the Central-Coastal NCCP and IRWD's service area. Her experience began as a field biologist and evolved into project management, in some cases over the course of the long-term environmental process for certain projects (e.g., Alton Parkway Extension, SR-241 Extension). A project manager with an understanding of conducting field surveys is beneficial to preparing scopes of work tailored to the level of effort needed based on project type and location, as well as for reviewing project documentation prepared by Psomas Biologists.

The following are some example projects that involved biological analysis, documentation and implementation services

- The Irvine Company, Planning Area 33
- OC Public Works, San Diego Creek Reach II Operations and Maintenance Project
- Lowe Enterprises, West Alton Project
- OC Public Works, Alton Parkway Extension
- OC Waste & Recycling, FRB Landfill Spadefoot Management Plan
- OC Public Works, La Pata Restoration Project

### **Task 5: Threatened and Endangered Species Regulation, Monitoring, and Reporting**

As described under Task 2, Psomas has conducted consultations under both Section 7 and 10 of the Endangered Species Act. Psomas has prepared Biological Assessments consistent with Section 7 for various projects, including the Alton Parkway Extension (addressing least Bell's vireo, a Conditionally Covered species under the NCCP/HCP) and the SR-241 Extension (addressing thread-leaved brodiaea, coastal California gnatcatcher, least Bell's vireo, southwestern willow flycatcher, and arroyo toad). Psomas is nearing completion of the Draft HCP for the Big Tujunga Dam Operation and Maintenance Project, which will provide a 30-year permit to the Los Angeles Department of Public Works. The Draft HCP includes eight Covered Species (i.e., least Bell's vireo, southwestern willow flycatcher, western yellow-billed cuckoo, arroyo toad, western pond turtle, Santa Ana sucker, arroyo chub, and Santa Ana speckled dace) and included an extensive hydraulic modeling effort to assess the effects of Dam operation on downstream riparian species.

Psomas also routinely provides biological monitoring consistent with the requirements of environmental documentation and project permits. This includes biological monitoring typically required by CEQA/NEPA documentation, FESA/CESA, California Fish

and Game Code, and USACE, CDFW, and RWQCB jurisdictional permits (i.e., Section 404, Streambed Alteration Agreements, and Section 401 Certifications). Psomas Biologists also have experience implementing measures required by the Coastal-Central NCCP/HCP. Amber has managed biological monitoring for numerous construction projects. To ensure compliance with multiple permits for larger projects, Psomas prepares a Biological Monitoring Checklist to summarize measures from all permits (with cross-reference back to the source) and requires that each Biological Monitor fill out the form daily. Psomas is currently implementing this strategy on the OC Sanitation District Santa Ana River Interceptor Rock Removal Project, which includes daily monitoring throughout the project.

Psomas prepared the Biological Resources Construction Plan (BRCP) for the Santa Margarita Water District Chiquita Water Plant Solar Project, as consistent with the Southern Subregion HCP and approved by the USFWS. Psomas conducted pre-construction surveys for coastal California gnatcatcher and a Biologist permitted for coastal California gnatcatcher monitored all vegetation clearing. Following vegetation clearing, the Biological Monitor visited the site weekly and prepared weekly reports that were submitted to the resource agencies to document project compliance. Upon completion of the project, a final report was prepared to summarize all biological monitoring efforts.

Psomas also provides on-call services to OC Public Works for the San Diego Creek Reach II (I-405 to Campus Drive) Operation and Maintenance Project. This includes annual focused surveys for least Bell's vireo and southwestern willow flycatcher to document the number of pairs using the riparian habitat between I-405 downstream to Jamboree Road (Reach II and Reach I). Prior to fall maintenance, Psomas conducts a pre-construction tree survey to flag trees to selectively remove consistent with project permits and guidance from the resource agencies. During the fall maintenance, Psomas provides full-time monitoring of tree removal and non-native invasive removal work within the 40-foot buffer (i.e., riparian habitat area); weekly reports are prepared and submitted to the resource agencies (following review by OC Public Works). Psomas also provides weekly monitoring to spot-check maintenance work outside the 40-foot buffer; monitoring forms are submitted to OC Public Works for their files. Following completion of the annual maintenance, a post-construction vegetation map is completed per permit requirements, and an Annual Report is prepared that includes a Mitigation Monitoring Reporting Plan compliance matrix; both are submitted to the resource agencies following approval by OC Public Works.

The following are examples of projects that included threatened and endangered species regulation, monitoring, and reporting:

- Los Angeles County Public Works, Big Tujunga Dam Operation and Maintenance Project HCP
- County of Orange, Alton Parkway Extension Biological Assessment
- Transportation Corridor Agencies, SR-241 Extension Biological Assessment
- OC Sanitation District, Santa Ana River Intercept Rock Removal Project Biological Monitoring
- OC Public Works, San Diego Creek Reach II Operation and Maintenance Project Biological Monitoring
- Santa Margarita Water District, Chiquita Water Reclamation Plant Solar Project Biological Monitoring

### **Task 6: Mitigation Monitoring and Reporting**

Psomas has the experience and expertise to provide an array of biological monitoring services, from simple pre-construction nesting bird surveys required as a Mitigation Measure from an environmental document to the design, implementation, and monitoring of 100+ acres of coastal sage scrub required as a result of consultations with the regulatory agencies.

In addition to the pre-construction surveys and biological monitoring described above in Task 5, Psomas has extensive experience in habitat restoration services that include the preparation and implementation of Habitat Mitigation Monitoring Plans (HMMPs). Our Restoration Biologists have the necessary technical expertise and project experience to provide a variety of restoration planning and management tasks for coastal sage scrub, riparian, and oak woodland habitat types found in Orange County. These tasks include habitat restoration design and planning, mitigation site selection, restoration implementation monitoring, and native plant palette recommendations. Psomas has implemented numerous successful HMMPs, which have resulted in successful habitat establishment, compliance with resource agency performance criteria, and subsequent buy-off from the resource agencies.

Richard Lewis is a Senior Restoration Ecologist with 26 years of experience in developing and directing complex habitat creation and restoration programs for public and private sector clients throughout Southern California. His Santa Anita Oak Woodland Mitigation Site uses cutting edge techniques for habitat creation and has been recognized with awards from the American Council of Engineering Companies (ACEC) and the American Society of Civil Engineers (ASCE). Additionally, Richard is leading restoration efforts for the Alton Parkway Extension, both on-site creation of

habitat along a Wildlife Corridor that will link with the wildlife corridor being built through the Great Park, and off-site enhancement of habitat along Aliso Creek that includes extensive removal of non-native invasive plants along a large portion of the creek. On the off-site portion of the project, Richard has worked with OC Public Works to install additional cactus plantings to extend habitat for the coastal cactus wren that occupies the site. Additionally, Richard is leading the Peters Canyon enhancement project, which provides off-site mitigation for OC Public Works' San Diego Creek Reach II Operation and Maintenance Project. All of the Orange County restoration projects mentioned are occupied by both coastal California gnatcatcher and least Bell's vireo. The presence of listed species complicates restoration site maintenance and increases biological monitoring requirements; however, the presence of listed species demonstrates the value of habitat creation/enhancement of these projects and often aids greatly in resource agency sign-off.

Several projects have been highlighted to demonstrate Psomas' expertise and ability to provide Mitigation Monitoring and Reporting services.

- Los Angeles County Public Works, Santa Anita Oak Woodland
- OC Public Works, Alton Parkway Extension (On-site and Off-site Mitigation)
- OC Public Works, San Diego Creek Reach II Operation and Maintenance Project (Peters Canyon Wash Mitigation)
- OC Public Works, La Pata Avenue Extension Project

### **Task 7: Water Quality, Stormwater Monitoring, and Reporting**

Psomas has provided clients with water quality monitoring and reporting in compliance with regulatory permits for many years. Brad Blood has a long-standing relationship with our subconsultant MBC Aquatic Sciences. MBC Aquatic Sciences' staff of scientists and technicians is actively engaged in a wide range of marine, estuarine, freshwater, and terrestrial studies. MBC and its staff have earned a reputation for thorough and accurate work, and high-quality products. Since its inception in 1969, MBC has conducted numerous ecological studies, biological assessments, and habitat restoration programs on the West Coast, in the Gulf of Mexico, and Alaska.

Together, they will manage the water quality, storm water monitoring and reporting for IRWD projects. As described under Tasks 2 and 3, Brad has extensive experience with obtaining and complying with jurisdictional permits (USACE, CDFW, RWQCB, and CCC). Brad is familiar with the SAMP permitting process, as he completed SAMP permitting for the Wagon Wheel

Creek Restoration Project located in the San Juan Creek/Western San Mateo Creek Watershed SAMP. Psomas prepared a Letter of Permission (LOP) under the SAMP for the USACE, a 1602 Streambed Agreement for the CDFW, and a Water Quality Certification for the RWQCB.

MBC provides water quality monitoring services in a variety of marine, estuarine, and freshwater habitats such as studies of streams, rivers, and lakes. MBC Scientists recently designed a study to determine likely sources of bacterial contamination in Bishop Creek (Bishop, CA). This study includes weekly collection and bacteriological analysis of water samples, and samples for molecular source tracking (MST). MBC has performed stormwater sampling in Orange and Los Angeles Counties since the 1990s. MBC also regularly collects sediments for analysis of chemistry, toxicity, and biological community composition. They are experienced in a wide variety of water and sediment study methods and work with clients to provide cost-effective solutions. In the last two years, they has partnered with Psomas to complete hydrographic and topographic surveys of Irvine Lake, and the completion of more than 20 jurisdictional delineations in California.

Several projects have been highlighted to demonstrate Psomas' and MBC's expertise and ability to provide these services.

- OC Parks, Wagon Wheel Restoration Project (Psomas)
- Irvine Ranch Water District, Special Studies of Upper Newport Bay (MBC)
- City of Los Angeles, NPDES Receiving Water Monitoring And Technical Studies (MBC)

### **Task 8: Natural Treatment System**

Psomas has experience in the design, implementation, and management of Natural Treatment Systems (NTS). Our team of Engineers, Restoration Ecologists, and Biologists have developed NTS that have reduced the introduction of pollutants (i.e., bacteria, suspended solids, nitrogen, selenium, and phosphorus) generated from urban runoff to receiving waters via a series of structural and green elements within the treatment train.

These efforts have involved Engineers working collaboratively with Hydrologists, Restoration Ecologists, Botanists, and Biologists to develop integrated treatment facilities that capture and treat urban runoff, while at the same time creating habitat value and aesthetic amenities for neighborhoods. Psomas understands IRWD's needs for NTS and, at the same time, has worked with other public entities to develop multi-beneficial features that work in concert with the NTS. Features we have successfully integrated into an NTS include, but are not limited to, neighborhood-serving park amenities; outdoor classroom amphitheatres; educational kiosks/

signage describing the park's function, flora, and fauna; and recreational walking trails with observation bridges/platforms around the treatment wetlands. Psomas' Restoration staff review plant palettes to ensure that the plan would include native species and/or species that would not be detrimental to surrounding habitat areas.

An exceptional example of Psomas' expertise with NTS is the South Los Angeles Wetlands Park. The Wetlands Park is a regional storm water treatment facility to serve a 525-acre tributary watershed. The Wetlands Park project represents a bold, integrated engineering solution that successfully captures and improves local runoff while creating a new neighborhood-revitalizing amenity. The project is helping to transform a community by turning a former Metropolitan Transportation Authority (MTA) brownfield site into a rare public park space in a highly urbanized setting. This urban wetland was designed to support the survival of soil, biota, flora, and fauna during both the "wet" and "dry" seasons, while simultaneously maximizing urban runoff treatment year round. This was accomplished via a supervisory control and data acquisition (SCADA)-controlled, centrally monitored, three-cell wetland treatment system that diverts and treats 100 percent of dry-weather runoff from the existing adjacent 63-inch storm drain during the summer and winter, while also providing first-flush treatment during rain events in the winter. The treatment facilities include diversion from a major existing subsurface storm drain; structural pretreatment, high and low flow pump station; and a 3-cell, 4.5-acre treatment wetland. The project was delivered in partnership with City of Los Angeles Bureaus of Engineering and Sanitation, Recreation and Parks, MTA, and Council District 9. It also won several awards, including the American Council of Engineering Companies' National Recognition Award.

### **Task 9: Natural Community Conservation Plan/Habitat Conservation Plan**

IRWD's service areas primarily located within the Central-Coastal Subregion of the NCCP/HCP. IRWD is a participating jurisdiction in the NCCP/HCP and, as such, it is subject to the terms of the Implementation Agreement. Participation in the NCCP/HCP allows compatible land uses and development to follow stream thoroughly very familiar with the NCCP/HCP and understands that IRWD activities related to infrastructure facilities, including construction of new infrastructure and ongoing operations and maintenance, repair, and reconstruction activities, are Permitted Activities. Psomas will ensure that biological surveys, impact assessments, and mitigation measures are consistent with the Central-Coastal NCCP/HCP, thus

providing IRWD with the full benefits of a signatory agency.

Psomas prepared the HMMP for the Peters Canyon Wash Project which provides mitigation for the San Diego Creek Reach II Operation and Maintenance Project. The HMMP includes exotic vegetation control and native plant species establishment within the Peters Canyon Wash Habitat Mitigation Easement area. The HMMP was developed in coordination with the NCC and in compliance with USACE and CDFW requirements for mitigation of impacts to jurisdictional resources.

During mitigation planning for the Alton Parkway Extension, Amber prepared and presented a PowerPoint to the NROC (now NCC) about the planned roadway, its biological impacts, and the planned mitigation measures. She engaged in discussion of the effects of the roadway on wildlife movement and presented the plan for minimizing effects on both small wildlife (e.g., spadefoot toad) and medium to large-sized wildlife (e.g., bobcats). Amber provided response to comments from NROC and worked with engineers to incorporate modifications to fencing requested by NROC.

Amber is also familiar with many of the NCCP/HCP Reserve lands as she obtained special permission from NROC and OC Parks to access open space areas to conduct her Masters research, *Distribution of Riparian Bird Species in an Urbanizing Landscape*, which analyzed the distribution of riparian bird species across a gradient of urbanization in Orange County.

Psomas has conducted several projects within the Central-Coastal NCCP/HCP. As described above under Task 5, Psomas prepared biological documentation for the Alton Parkway Extension Project, which proposed mitigation measures consistent with the NCCP/HCP and included a Biological Assessment for a Conditionally Covered species (i.e., least Bell's vireo). Additionally, Psomas has conducted biological studies for Planning Area 33 for The Irvine Company, which included preparation of a Biological Technical Report, focused surveys, and the Biological Resources section of the Initial Study/Mitigated Negative Declaration (IS/MND) consistent with the NCCP/HCP.

In addition to work within the Central-Coastal NCCP/HCP, Psomas has conducted work in the Southern Subregion HCP. As described above under Task 5, this included preparation of a BRCP and biological monitoring consistent with the Southern Subregion HCP. Psomas is currently working on a project for OC Parks to complete a minor amendment to the HCP to adjust the boundary of open space areas, which may include a land swap in the vicinity of Robinson Ranch/Trabuco Canyon.



The following projects have been highlighted to demonstrate Psomas' expertise with NCC (formerly NROC) and other NCCP or HCPs.

- OC Public Works, Peters Canyon Wash HMMP (San Diego Creek Reach II Operation and Maintenance Project)
- OC Public Works, Alton Parkway Extension
- The Irvine Company, Planning Area 33
- Santa Margarita Water District, Chiquita Water Treatment Plant Solar Project
- OC Parks, Robinson Ranch Project

### Task 10: Project Coordination

Psomas will be responsible for ongoing coordination with IRWD and other team members. Throughout our history, Psomas' Resource Management Team has assumed the role of both consultant and subconsultant on a variety of projects. Depending on the assigned task, Psomas will assume either a primary project management role and be responsible for the management of a project team or will serve as a member of a larger team and take direction from another party, as directed by IRWD. Due to our extensive experience throughout Southern California, Psomas has positive working relationships with hundreds of consulting firms across multiple professional disciplines; we look forward to the chance to collaborate with peers in these fields.

One example of our coordination efforts and ability to work successfully with other teams is our work for Parsons on the I-405 Widening Project from SR-55 to I-5. On this project, Psomas prepared the NES which was later summarized into the Environmental Impact Report (EIR) by Parsons. Additionally, Psomas coordinated with ICF who provided the Jurisdictional Delineation for all Measure M projects.

### Task 11: Staff Rates

Hourly rates for staff members proposed, along with their titles/roles, are listed below. Additional staff for Regulatory, Biological, Habitat Restoration and Environmental services are available for task orders, as needed, but would not be assigned without prior written approval from IRWD.

STAFF RATES		
Key Personnel	Contract Role/Title	Hourly Billing Rate
<b>Psomas</b>		
Ann Johnston	Principal-in-Charge, QA/QC Manager	\$257
Amber Heredia	Senior Project Manager/ Senior Wildlife Biologist	\$193
Brad Blood, PhD	Senior Regulatory Specialist	\$207
Allison Rudalevige	Regulatory Specialist/ Senior Botanist/ Restoration Biologist	\$137
Sean Noonan, AICP	Regulatory Specialist/ Environmental Planner	\$166
Lindsay Messett	Senior Wildlife Biologist	\$139
Jonathan Aguayo	Senior Wildlife Biologist/ Restoration Biologist	\$137
Steve Morris	Wildlife Biologist	\$107
Daniel Jaques	Botanist	\$102
Matthew Heideman, PE, QSD/QSP, ENV SP	Civil Engineer	\$220
Richard Lewis III	Senior Restoration Ecologist	\$166
Jennifer Marks	Senior Project Manager	\$220
Megan Larum	Environmental Planning	\$118
Michael Deseo	GIS Analyst	\$145
Robert Becker	GIS Technician	\$102
<b>MBC Aquatic Sciences</b>		
David Vilas	Senior Scientist	\$192
Robert Moore	Senior Scientist	\$192
Michael Lyons	Senior Scientist	\$192

REIMBURSABLE COSTS	
Item	Rate
Mileage	Federal Standard Mileage Rate
Reprographics (Outside)	at cost plus 10%
Reprographics (Inside)	Request Printing fee sheet
Other Out-of-Pocket Expenses	at cost plus 10%
Subconsultants	at cost plus 10%
Plotting: Color Bond	\$1.50 per square foot
Plotting: Color Photo Gloss	\$2.50 per square foot
Aerial Maps: Fewer than 500 acres	\$200
Aerial Maps: 500–1,500 acres	\$350
Aerial Maps: Greater than 1,500 acres	\$500

## Task 12: Project Task Item Estimates

Psomas has experience with working under on-call and open-end contracts with many clients. We have a proactive approach to client service; an ability to coordinate and manage technical subconsultants; and an ability to deliver quality work products within project schedule and cost constraints. One aspect of our client portfolio that speaks highly of our responsiveness and quality of work is the number of long-term clients and On-Call/As-Needed Environmental Services contracts we have maintained with public sector agencies and utilities. We have established long-term relationships with clients, some for more than 20 years, providing services and work products including jurisdictional delineations and regulatory permitting, general and focused biological surveys, technical reports, permit compliance monitoring and reporting, construction monitoring and reporting, and agency negotiations.

Following is a list of some of the key long-term water, utility, and public works clients for which Psomas has provided As-Needed or On-Call Biological Consultant Services, with the total years of service for each client included in parentheses:

- Transportation Corridor Agencies (25 years)
- County of Orange (24 years)
- Los Angeles County Public Works (24 years)
- Santa Margarita Water District (22 years)
- Southern California Edison Company, Eastern Hydro Division (21 years)
- Orange County Sanitation District (13 years)
- Orange County Water District (10 years)
- Metropolitan Water District of Southern California (9 years)
- OC Parks (5 years)
- Riverside County Flood Control and Water Conservation District (5 years)
- Orange County Transportation Authority (10 years)
- Eastern Municipal Water District (1 year)

Under these contracts, Psomas has provided scopes of work, estimated costs, and schedules for hundreds of individual projects. Each scope, cost, and schedule is prepared to fulfill our clients' needs by providing cost- and time-efficient services that meet the project objectives without burdening projects with unnecessary tasks. When it is unknown whether additional services would be necessary, Psomas often includes optional tasks, which can be authorized later in the work effort, allowing IRWD to know what costs would be for additional services up-front. With the depth of staff and experience of each team member, Psomas will be able to meet the schedules of concurrent assignments. While each of the key staff members will have responsibilities to other projects, Psomas will ensure that each team

member will have adequate availability to meet IRWD's project requirements. Psomas is careful not to commit 100 percent of any staff member's time, thereby ensuring availability of qualified staff to fulfill project responsibilities as well as unanticipated requests that may arise throughout the duration of a project. Psomas regularly adjusts staff schedules to meet the needs of various on-call clients.

## Task 13: Team Experience

Ann Johnston, Principal-in-Charge, is a seasoned professional who has prepared or overseen the preparation of biological resources documentation for some of the most controversial projects in Orange County. Ann possesses a depth of knowledge on regulatory processes, extensive experience in impact analysis and document review, practical approach to problem-solving, and a friendly demeanor.

Amber Heredia possesses strong project management skills and is known for being very responsive to her clients. She is highly organized and strikes the right balance of attention to detail and efficiency. She is excellent at coordinating with internal team members to ensure that deadlines are met. She takes great pride in producing well-written documents that clearly present technical information and is excellent at following required templates. Amber is well-respected by her peers and the resource agencies for producing well-written and accurate documents.

Dr. Brad Blood has built working relationships with resource agency staff related to jurisdictional permitting. He has an extensive knowledge of the ever-changing implementation of jurisdictional permitting requirements and experience in obtaining permitting anticipated to be needed by IRWD. He oversees highly skilled Regulatory Permitting Specialists.

Richard Lewis is passionate about habitat restoration and is known throughout Orange, Los Angeles, and Riverside counties for designing and implementing exceptional habitat mitigation programs. His often simple suggestions to supplement or enhance habitat mitigation programs are frequently incorporated by his clients because they are anticipated to accelerate achieving performance criteria, which can lead to substantial cost savings, and/or to provide alternative measures of performance that increase the odds of project sign-off (e.g., demonstration of occupation by Threatened or Endangered species).

Allison Rudalevige, Lindsay Messett, and Jonathan Aguayo are well-rounded Senior Biologists. Each can conduct habitat assessments, vegetation mapping, general plant and wildlife surveys and monitoring, but each also has several specialties. Allison conducts

focused surveys for fairy shrimp and special status plants, jurisdictional delineations (including CRAM, SWAMP), and restoration monitoring. Lindsay and Jonathan both have the necessary permits and experience to conduct focused surveys for coastal California gnatcatcher, least Bell's vireo, southwestern willow flycatcher, burrowing owl, nesting bird/raptor surveys, and western spadefoot (including translocation). Additionally, Jonathan conducts surveys for arroyo toad, red-legged frog, and yellow-legged frog, and trapping for western pond turtle while Lindsay can conduct Benthic Macroinvertebrate (BMI) surveys. Both Allison and Jonathan regularly conduct restoration monitoring for Richard. All Psomas' Biologists are experienced with various biological monitoring tasks.

Staff that will be assigned to the IRWD contract include Senior Managers, Technical Leads, and supporting staff who have been, and are currently, responsible for providing technical support and management oversight of many water district, flood control, and other public works contracts. Thanks to our longstanding history of work on public works projects, staff assigned to this contract understand the importance of coordinating closely with agency managers and engineers, operational/maintenance staff, and resource agency personnel to ensure that project construction and maintenance projects move forward in a manner that meets project objectives and schedule constraints, while at the same time complying with resource agency permit requirements for biological and water quality resource protection.

Project Team resumes, including years of experience, education, special knowledge and skills, pertinent permits, and brief descriptions of relevant project experience can be found in Attachment B.

#### **Task 14: References**

Psomas' Environmental Services is currently working on and has completed CEQA/NEPA task orders for IRWD via an on-call services contract. The following is a list to date of work completed and ongoing along with key IRWD staff.

- **Zone A to Rattlesnake Reservoir Pump Station IS/MND** (December 2019)  
Jo Ann Corey, Environmental Compliance Specialist
- **3.7 MG Zone 1 Reservoir IS/MND** (March 2018)  
Jo Ann Corey, Environmental Compliance Specialist

- **Irvine Lake Pipeline (ILP)-North Conversion Project: Santiago Hills C + Reservoir**
  - **California Gnatcatcher Survey** (October 2016)  
Jo Ann Corey, Environmental Compliance Specialist
  - **Burrowing Owl Survey** (October 2016)  
Jo Ann Corey, Environmental Compliance Specialist
- **ILP North Conversion Project: Baker Raw Pumping Station**
  - **Special Status Plant Surveys** (June 2017)  
Jo Ann Corey, Environmental Compliance Specialist
  - **Coast California Gnatcatcher Survey** (June 2017)  
Jo Ann Corey, Environmental Compliance Specialist
- **ILP- North Conversion Project IS/MND** (December 2015)  
Jo Ann Corey, Engineering Technician III
- **ILP-North Conversion Project Mitigation Monitoring**  
Jo Ann Corey, Engineering Technician III

One of the projects Psomas recently completed for IRWD pursuant to this contract is an IS/MND for the ILP North Conversion Project and the associated Zone A to Rattlesnake Reservoir project. The project would involve the conversion of a segment of the ILP from untreated water to recycled water and all associated improvements to IRWD's water distribution system required to accommodate this conversion. Psomas' point of contact at IRWD pursuant to this project is Jo Ann Corey, Engineering Technician III, in the IRWD Engineering Department. A complete description of this project is provided in Attachment A, Relevant Project Descriptions.

Additionally, Psomas has provided a letter of reference from the Eastern Municipal Water District that speaks to Psomas' technical expertise, responsive service, and budget and schedule compliance. This letter is provided in Attachment C, Letter of Reference.

## **ADDITIONAL ITEMS**

### **Schedule**

Psomas understands that good communication requires a level of transparency with our clients regarding schedule and budget. In order to present an accurate picture of the project schedule and budget to IRWD on a regular basis, the Psomas management team will actively track each project's progress through our in-house management software, allowing us real-time project statistics. With this information, our management team can quickly make the necessary adjustments to reallocate resources and make any necessary reassignments to ensure schedules are met and budgets are not exceeded. Our commitment to schedule and budget has been demonstrated through our past work with IRWD on the Irvine Lake Pipeline North Conversion Project and our extensive work since 1996 with OC Public Works and since 1998 with Santa Margarita Water District.

### **Joint Venture**

Psomas will not engage in a Joint Venture. Psomas, as the Prime, is adding one subconsultant, MBC Aquatic Services (MBC) for this On-Call Contract. MBC will provide support on Task 8 Water Quality, Storm Water Monitoring, and Reporting. Psomas has the depth of expertise with its current staff to complete all other work efforts associated with this On-Call contract within IRWD's budget and schedule requirements.

### **Conflict of Interest**

Psomas has no conflicts of interest that would preclude our capacity to uphold this contract.

### **Contract**

Psomas has reviewed the professional service agreement and has no proposed modifications to the standard terms and conditions.

### **Insurance**

Psomas insurance coverage for both professional liability and general liability meets the requirements stated in the RFP. ACORD certificates demonstrating current coverages are provided in Attachment D to this proposal. Psomas' insurance certificates will be presented to IRWD upon contract award.

## **ATTACHMENTS**

**Attachment A: Relevant Project Descriptions**

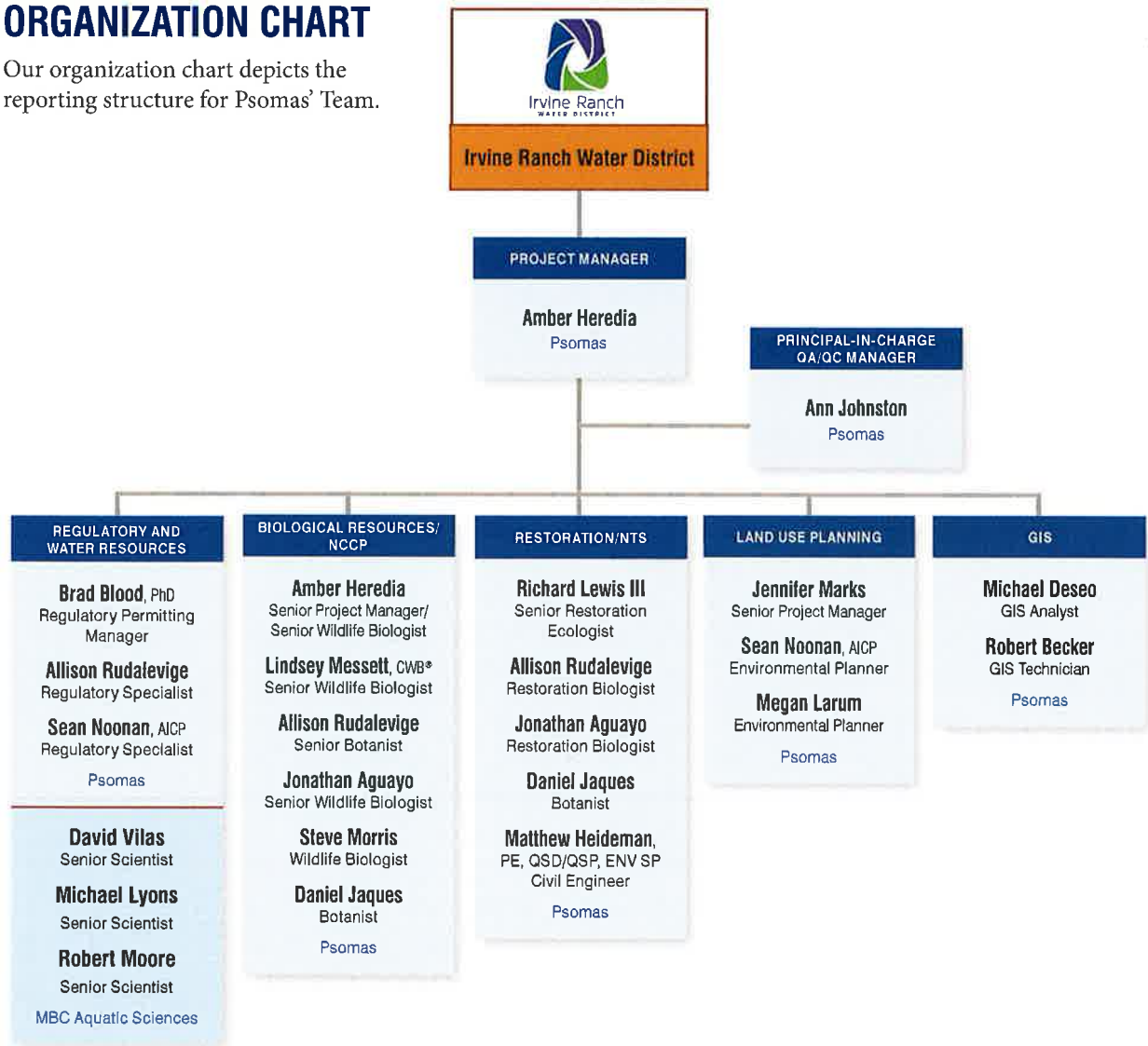
**Attachment B: Resumes**

**Attachment C: Letter of Reference**

**Attachment D: ACORD Insurance Forms**

# ORGANIZATION CHART

Our organization chart depicts the reporting structure for Psomas' Team.



Key Personnel	Availability	Key Personnel	Availability
Jonathan Aguayo	50%	Richard Lewis III	30%
Robert Becker	75%	Michael Lyons	65%
Brad Blood, PhD	50%	Jennifer Marks	65%
Michael Deseo	50%	Lindsay Messett, CWB	40%
Matthew Heideman	20%	Robert Moore	50%
Amber Heredia	40%	Steve Morris	90%
Daniel Jaques	90%	Sean Noonan, AICP	40%
Ann Johnston	20%	Allison Rudalevige	30%
Megan Larum	50%	David Vilas	75%

## Team Availability

The table to the left estimates the percentage of time each alphabetically listed staff member would have available to commit to IRWD-assigned tasks. Psomas is committed to devoting the staff resources necessary in a timely matter to ensure exceptional client service. We are highly qualified in providing on-call monitoring and permitting services to public agencies and are careful to ensure key staff members are available for the on-call contract as needed to fulfill any schedule demands that may arise.

# Irvine Ranch Water District On-Call CEQA/NEPA Consultation Services

Irvine and Orange County, CA

## OWNER/CLIENT

Irvine Ranch Water District

## REFERENCE

Jo Ann Corey  
(949) 453-5362  
corey@irwd.com

## DATES

8/2014 to 1/2016

## FINANCIAL SIZE

Varies by individual task order

Psomas has provided environmental services to the Irvine Ranch Water District (IRWD) since 2010 and we currently under contract to provide on-call services (this is our second on-call contract, which was awarded in August 2016; our first on-call contract was awarded in January 2014). Under our first On-Call Contract, Psomas prepared an Initial Study/Mitigated

Negative Declaration (IS/MND) for the Irvine Lake Pipeline North Conversion Project. The project would involve the conversion of a segment of the ILP from untreated water to recycled water and all associated improvements to the IRWD water distribution system required to accommodate this conversion. The proposed project involves improvements and modifications to several IRWD facilities in the cities of Orange and Irvine. A portion of the ILP from the Baker RWPS near the Peters Canyon Reservoir to the Rattlesnake Reservoir Complex would be converted to a recycled water line. The ILP North Conversion Project includes capacity for both existing and future planned untreated water demands. Project actions would include construction of a 2.4 MG recycled water reservoir as a partially buried circular tank and associated inlet and outlet structures; conversion of an existing booster pump station to allow for pumping of recycled water to two separate zones; reconfiguring an existing water facility to serve as a back-up source of recycled water; and construction of pipelines within existing roadways in the cities of Irvine and Orange.

In addition to preparation of the IS/MND for the project, Psomas prepared the air quality analysis, biological resources assessment, cultural resources assessment, greenhouse gas analysis, and noise assessment pursuant to CEQA requirements. Because the project would qualify for grant funding, Psomas coordinated with the U.S. Department of the Interior Bureau of Reclamation

to define any additional environmental documentation requirements and completed the additional work pursuant to CEQA-Plus.

A portion of the project is located in the Central/Coastal Subregion of the Natural Communities Conservation Plan/Habitat Conservation Plan (NCCP/HCP) and IRWD is a participating jurisdiction and is subject to the terms of the NCCP/HCP Implementation Agreement. Therefore, the Biological Resources Assessment addressed compliance with the NCCP/HCP.



# San Diego Creek Reach II Operation and Maintenance Plan/ Peters Canyon Wash Habitat Mitigation Program | Psomas

Orange County, CA

## OWNER/CLIENT

Orange County, OC Public Works

## REFERENCES

Jennifer Shook, Manager, OC Mitigation and Construction Compliance  
(714) 955-0615  
jennifer.shook@ocpw.ocgov.com

Cort DiStanislao, Sr. Environmental Resources Specialist  
(714) 955-0263  
cort.distanislao@ocpw.ocgov.com

## DATES

3/2013 to Present

## FINANCIAL COSTS (BIO/MONITORING)

\$681,027.32

This project involves biological surveys and monitoring to support on-going operation and maintenance of San Diego Creek, Reach II (Interstate-405 downstream to Campus Drive). OC Public Works conducts annual maintenance conduct vegetation and sediment removal along the creek for flood-control purposes. The County holds long-term permits with the regulatory agencies (USACE Section 404, CDFW 1602, RWQCB 401, USFWS Biological Opinion, CDFW Incidental Take Permit), which each contain measures required during implementation of maintenance work. The permits require protection of a 40-foot strip of riparian vegetation along the east bank of the channel to be protected as habitat for the least Bell's vireo. Vegetation outside the 40-foot buffer is removed annually. Additionally, project permits allow removal of native trees from within the buffer; however, three trees with diameter at breast height (dbh) greater three inches must be retained per every 100 feet. Each year, prior to the annual maintenance, Psomas conducts pre-construction visual surveys for western pond turtle, pre-construction flagging/selection of native trees to be removed/retained, pre-construction field meeting with USFWS, CDFW, USACE, and RWQCB, full-time biological monitoring (one experienced with least Bell's vireo as approved by the USFWS and CDFW) for work within the 40-foot buffer, weekly monitoring reports to the resource agencies throughout maintenance work, periodic biological monitoring for work outside the 40-foot buffer, post-construction vegetation mapping, and preparation of an annual report. In addition, Psomas conducts annual focused surveys for least Bell's vireo and southwestern willow flycatcher along both Reach I and Reach II (I-405 downstream to Jamboree Road) to document habitat use and opportunistic observations of nest success. In 2019, a total of 19 territories were recorded (8 in Reach II, 11 in Reach I). Similar numbers have been observed during previous years. Because of the number of territories, the focused survey reports for this project are very detailed.



Psomas prepared a Habitat Mitigation and Monitoring Program (HMMP) to address mitigation requirements associated with basin desilting activities conducted by OC Public Works in San Diego Creek. The HMMP includes exotic vegetation control and native plant species establishment within the Peters Canyon Wash Habitat Mitigation Easement area in compliance with CDFW and USACE requirements for mitigation of impacts to jurisdictional resources. The HMMP follows the USACE's guidelines and complies with standard resource agency requirements for riparian habitat mitigation. The HMMP was also developed in compliance with the Orange County Fire Authority (OCEFA) Guidelines for Fuel Modification



Before Mitigation



After Mitigation

Plans and Maintenance Program (January 2008) since a portion of the mitigation area is subject to OCFA's fuel maintenance requirements. The HMMP includes (1) an assessment of both impact and future mitigation site conditions and development of success criteria; (2) a discussion of the proposed mitigation program; and (3) guidelines for site preparation, plant establishment, long term site maintenance, long-term site performance monitoring, and site status documentation. Additionally, the HMMP addresses potential channel degradation and related impairment to hydrological functions by including guidelines for the implementation of the Incised Template from the USACE's 2009 A Special Area Management Plan (SAMP) for the San Diego Creek Watershed, Orange County, California.

Psomas also provided support for OC Public Works' community outreach activities. This included attendance at community meetings and development of presentation boards and brochures that summarized the exotic plant species control and native plant species establishment program for the Peters Canyon mitigation program. Psomas performed a biological constraints survey and a modified version of the full Physical Habitat Evaluation (PHAB) in compliance with CDFW requirements. Collection of PHAB data was in accordance with the guidelines set forth in the California Water Board's 2007 document entitled Standard Operating Procedures for Collecting Benthic Macroinvertebrate Samples and Associated Physical and Chemical Data for Ambient Bioassessments in California. Psomas compiled the data for use as baseline data in future annual monitoring reports.

Psomas conducted a red-legged frog habitat assessment of the Peters Canyon mitigation site to identify the potentially suitable habitat for the red-legged frog. The results of the survey were incorporated into the Biological Constraints Report.

Approximately 681 mature, exotic trees (e.g., eucalyptus and palm) and a huge volume of non-native understory vegetation and accumulated non-native branches/leaves, were removed along Peters Canyon Creek to facilitate the recovery of native riparian vegetation and to reduce fire fuel risks for adjacent residential areas. Psomas developed detailed implementation specifications for incorporation into OC Public Works' contractor bidding package. Contractor specification information included a detailed methodology description for site preparation; non-native plant species removal (including large trees) and follow-up control; procurement of local native container plant and seed mix species; container planting and seed mix application; performance of long-term site maintenance; and implementation of protection measures that ensure the protection of natural resources, including least Bell's vireo and coastal California gnatcatcher. The implementation specifications were developed in compliance with the approved HMMP and project permits. Prior to off-site mitigation implementation in February 2013, least Bell's vireos had not been documented in the relevant reach of Peters Canyon Creek. As of the 2017 survey season, a total of eight least Bell's vireo breeding territories have been identified by Psomas biologists in the areas where exotic trees were removed and subsequent weed control is being performed.

Psomas is currently monitoring the implementation of the mitigation program at Peters Canyon Wash, including the removal of non-native plant species and the establishment of native plant species. All habitat mitigation planning, survey performance, and monitoring have been completed in a timely manner in compliance with the OC Public Works' schedule for the project.







# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

10/2/2018

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<b>PRODUCER</b> Dealey, Renton & Associates Lic. #0020739 600 Anton Blvd., Suite 100 Costa Mesa CA 92626	<b>CONTACT NAME:</b> ..	
	<b>PHONE (A/C, No, Ext):</b> 714 427-6810	<b>FAX (A/C, No):</b> 714 427-6818
<b>E-MAIL ADDRESS:</b> ..		
<b>INSURER(S) AFFORDING COVERAGE</b>		<b>NAIC #</b>
<b>INSURER A :</b> XL Specialty Insurance Co.		37885
<b>INSURER B :</b>		
<b>INSURER C :</b>		
<b>INSURER D :</b>		
<b>INSURER E :</b>		
<b>INSURER F :</b>		

**COVERAGES** **CERTIFICATE NUMBER:** 1200321118 **REVISION NUMBER:**

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INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	<b>COMMERCIAL GENERAL LIABILITY</b> <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR  GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:						EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COMP/OP AGG \$ \$
	<b>AUTOMOBILE LIABILITY</b> <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS						COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
	<b>UMBRELLA LIAB</b> <input type="checkbox"/> OCCUR <b>EXCESS LIAB</b> <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$						EACH OCCURRENCE \$ AGGREGATE \$ \$
	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> N/A				<input type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$
A	Professional Liability Claims Made			DPR9932582	10/15/2018	10/15/2019	Per Claim \$2,000,000 Annual Aggregate \$2,000,000 Deductible \$100,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

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AUTHORIZED REPRESENTATIVE

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March 9, 2020  
Prepared and  
submitted by: P. Weghorst  
Approved by: Paul A. Cook 

## ACTION CALENDAR

### REVISED IRWD POLICY PRINCIPLES REGARDING METROPOLITAN WATER DISTRICT'S INTEGRATED WATER RESOURCES PLAN AND LOCAL RESOURCES PROGRAM

#### SUMMARY:

Metropolitan Water District is currently updating its Integrated Water Resources Plan (IRP) which will identify new regional targets for local water resource development. These new targets will affect the updating and implementing of Metropolitan's Local Resources Program, which provides incentives to water agencies for the development of water recycling, groundwater recovery, and seawater desalination projects. To help guide IRWD's advocacy efforts related to ongoing policy discussions on Metropolitan's IRP and Local Resources Program, staff has prepared an updated policy position paper. The policy position paper is intended to replace the District's existing policy paper on the Local Resources Program that was last revised in September 2018. Staff recommends that the Board adopt the updated IRP and Local Resources Program policy principles.

#### BACKGROUND:

In 2004, IRWD began producing policy papers on topics of interest to the District. Because of IRWD's standing in the water industry, the opinion of the District is regularly solicited on issues of vital interest to the industry and the community. In order to keep these position papers current for explaining the District's position, staff occasionally recommends that the Board review the papers and, when appropriate, adopt new policies or incorporate revisions.

Currently, Metropolitan is updating its IRP which will affect the future development of local water supplies in Southern California. Following is an overview of Metropolitan's efforts to update its IRP and Local Resources Program as well as proposed IRWD policy principles to help guide associated policy discussions.

#### Integrated Water Resources Plan:

Metropolitan's IRP establishes a long-term strategy to provide its service area with cost effective and reliable water supplies. The last update to the IRP was in 2015 and the plan is due to be revised again in 2020. The 2015 IRP established goals to achieve additional water use efficiency and conservation, to stabilize and maintain imported water supplies, and to develop additional local water supplies. Metropolitan's new 2020 IRP is expected to identify new regional targets for local water resource development. These new targets will affect the updating and implementing Metropolitan's Local Resources Program.

Local Resources Program:

Metropolitan provides financial incentives through its Local Resources Program for the development of water recycling, groundwater recovery, and seawater desalination projects that offset a demand, or prevent adding a new demand, on Metropolitan for imported water supplies. Sliding scale payments made through the Local Resources Program are based on actual project unit costs that exceed Metropolitan's prevailing Full-service Tier-1 Treated Water Rates. Local Resources Program incentives are contingent upon the approval of Metropolitan's Board of Directors. Upon completion of the 2020 IRP, Metropolitan is expected to make revisions to the program.

Guiding Metropolitan Policy Issues:

Developing Metropolitan's 2020 IRP and updating its Local Resources Program will require addressing significant policy issues associated with the following:

- An unexpected future where member agencies may collectively require less imported water supplies;
- Climate change impacts to an over-allocated Colorado River;
- Uncertainties of a long-term solution to conveyance in the Sacramento-San Joaquin Delta make it difficult to predict Metropolitan's future water supplies;
- Accumulating risks that a major earthquake will occur in the Delta that will dramatically reduce water supplies to Southern California;
- Local groundwater aquifers within the Metropolitan service area could be utilized as another method for storing water;
- Emerging contaminants are impacting local groundwater basins creating short-term and increased dependence on Metropolitan;
- Some member agencies will be "rolling off" of Metropolitan through the development of local supplies;
- The continued development of local supplies could strand capacity in Metropolitan's water treatment facilities; and
- Metropolitan's variable revenue structure may not be effective at covering all of Metropolitan's costs into the future.

To help guide IRWD's advocacy efforts related to ongoing policy discussions on Metropolitan's IRP and Local Resources Programs, staff has prepared an updated policy position paper that is provided as Exhibit "A". This policy paper is intended to replace IRWD's existing policy paper on Metropolitan's Local Resources Program; the existing IRWD policy position paper, adopted in September 2018, is attached as Exhibit "B". Staff recommends that the Board adopt the updated policy principles regarding Metropolitan's IRP and Local Resources Program.

Action Calendar: Revised IRWD Policy Principles Regarding Metropolitan Water District's  
Integrated Water Resources Plan and Local Resources Program

March 9, 2020

Page 3

FISCAL IMPACTS:

None.

ENVIRONMENTAL COMPLIANCE:

None.

COMMITTEE STATUS:

This item was reviewed by the Water Resources Policy and Communications Committee on  
March 5, 2020.

RECOMMENDATION:

THAT THE BOARD ADOPT THE UPDATED IRWD POLICY PRINCIPLES REGARDING  
METROPOLITAN WATER DISTRICT'S INTEGRATED WATER RESOURCES PLAN AND  
LOCAL RESOURCES PROGRAM.

LIST OF EXHIBITS:

Exhibit "A" – Draft Updated IRWD Policy Position Regarding Metropolitan Water District's  
Integrated Water Resources Plan and Local Resources Program

Exhibit "B" – IRWD Policy Position Regarding Metropolitan Water District's Local Resources  
Program, dated September 10, 2018

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**IRVINE RANCH WATER DISTRICT POLICY POSITION  
METROPOLITAN WATER DISTRICT'S INTEGRATED WATER RESOURCES PLAN AND  
LOCAL RESOURCES PROGRAM**

March 5, 2020

Issue Summary:

Metropolitan Water District of Southern California (Metropolitan) plans for the future through the development and implementation of its Integrated Water Resources Plan (IRP). The purpose of the plan is to provide a long-term strategy to provide Metropolitan's service area with cost effective and reliable water supplies. The last update to the IRP was in 2015, and Metropolitan plans to revise the plan again in 2020. The 2015 IRP established goals to achieve additional water use efficiency and conservation, to stabilize and maintain imported water supplies, and to develop additional local water supplies. The new 2020 IRP is expected to update these goals and identify new regional targets for local water resource development. These new targets will affect the updating and implementation of Metropolitan's Local Resources Program. There are numerous changing conditions, some of which are described below, that will influence Metropolitan's efforts to update both the IRP and Local Resources Program.

*Changing Conditions:*

Metropolitan has historically implemented a regional approach to planning that has ensured the ability to provide reliable and high-quality water for all of its member agencies. The ability to continue with this approach into the future is being affected by the following changing conditions:

- An unexpected future where member agencies may collectively require less imported water supplies;
- Climate change impacts to an over-allocated Colorado River;
- Uncertainties of a long-term solution to conveyance in the Sacramento-San Joaquin Delta make it difficult to predict Metropolitan's future water supplies;
- Accumulating risks that a major earthquake will occur in the Delta that will dramatically reduce water supplies to Southern California;
- Emerging contaminants are impacting local groundwater basins creating short-term, increased dependence on Metropolitan;
- Some member agencies will be "rolling off" of Metropolitan through the development of local supplies;
- The continued development of local supplies could strand capacity in Metropolitan's water treatment facilities; and
- Metropolitan's variable revenue structure may not be effective at covering all of Metropolitan's costs into the future.

*Local Resources Program Overview:*

In the 1990s, Metropolitan developed the Local Resources Program out of concern that its member agencies were relying too much on imported water supplies and that supply diversification would benefit all of Metropolitan’s service area. The intent of the program was to incentivize new local supplies to be developed by Metropolitan’s member agencies. This program has provided incentives to water agencies for the development of water recycling, groundwater recovery, and desalination projects that offset a demand or prevent adding a new demand on Metropolitan for imported water supplies. The incentive program has also indirectly increased regional water supply reliability, decreased the burden on Metropolitan’s infrastructure, reduced costs, and freed up conveyance capacity in Metropolitan’s system.

*Ongoing Policy Discussions:*

Currently, Metropolitan and its member agencies are engaged in policy discussions related to how the changing conditions described above will affect the update to Metropolitan’s IPR and the Local Resources Program. The Municipal Water District of Orange County is involved in the discussions and seeking input from its member agencies on the issues. To help guide IRWD’s advocacy efforts related to the ongoing policy discussions on Metropolitan’s IRP and Local Resources Programs, staff has prepared the following policy principles.

Policy Principles:

1. Metropolitan should continue its regional approach to water resources planning and work to ensure its financial stability while maintaining the ability to provide reliable, cost effective and high-quality water to its member agencies.
2. Metropolitan should enhance its variable revenue structure with a fixed rate component that ensures that it can cover its full cost of regional service while discouraging local projects that would strand capacity in Metropolitan’s water treatment facilities.
3. Metropolitan should consider suspending its Local Resources Program until such time the demands on Metropolitan have increased to levels that support the need to increase supplies to maintain regional water supply reliability.
4. Metropolitan should consider reallocating funds that have been approved for incentivizing local resource projects to discounting replenishment water for use in correcting groundwater basin overdraft in Metropolitan’s service area.
5. Metropolitan should fully support and invest in the proposed Delta Conveyance Project and develop new innovative programs on the Colorado River to reduce risks to Metropolitan’s imported supplies.
6. Metropolitan should consider the needs of its member agencies in implementing targeted incentive programs other than the Local Resources Program to encourage water supply projects located both in and outside of Metropolitan’s service area (e.g., water banking projects) that improve the water supply reliability of Metropolitan and its member agencies while not stranding capacity in Metropolitan’s treatment facilities. Targeted incentives should be offered for both potable and non-potable water supply projects.



7. Should Metropolitan continue with its Local Resources Program, it should establish criteria for prioritizing incentives to local resource projects in areas with reduced water supply reliability (e.g., South Orange County and the northern areas of Metropolitan’s service area) as compared to other areas of Metropolitan’s service area. Such criteria should ensure regional supply benefits while addressing local supply reliability issues.
8. LRP funding should also be offered to agencies for projects that will result in reductions in demands for untreated water from Metropolitan with incentives being provided down to the cost of Full Service Tier-1 Untreated Rate offered by Metropolitan, such as recycled water storage projects.
9. Metropolitan should not provide incentives for local projects that result in local communities subsidizing other areas of Metropolitan’s service area. Such reverse subsidization occurs whenever incentives are unable, within a short period of time, to bring the cost of water down to the Full Service Tier-1 Treated Rate offered by Metropolitan.
10. Metropolitan should not provide incentives to local projects that would result in significant impacts to Metropolitan treatment and conveyance facilities. Any minor impacts should be justified through an actual improvement in local agency water supply reliability rather than just simply replacing one supply for another.
11. Metropolitan should index its incentives to inflation to improve the feasibility and life cycle costs of local resource projects.
12. Metropolitan should consider providing incentives to encourage storm water and urban runoff capture and reuse projects that do not result in reductions in supplies or increased costs to others and that do not strand capacity in Metropolitan’s water treatment facilities.
13. A new incentive program should be implemented by Metropolitan that promotes development of extraordinary supplies from projects located outside Metropolitan’s service area. Such projects can reduce Metropolitan’s need to improve the reliability of its imported supplies by augmenting supplies during periods of droughts, supply interruptions due to earthquakes in the Delta, other emergencies and water supply allocations. Metropolitan incentives would be paid at the time water from such a project is imported to Metropolitan’s service area for use by the local agency.
14. Metropolitan should consider providing targeted incentives to fund large “on-site” reuse projects that reduce Metropolitan's capital and/or operational costs. Such incentives could be provided to customers such as large-scale industrial facilities where the feasibility of implementing on-site reuse projects depends on receiving incentive funding.
15. Should Metropolitan continue with its Local Resources Program, it should provide incentives to seawater desalination projects through separate funding initiatives that do not impair the ability of non-desalination related local projects to receive funding under Metropolitan limits for local resources investments.
16. Metropolitan should only consider providing incentives to local groundwater treatment projects up to the lowest cost and effective treatment of regulated constituents when the projects would increase regional water supply reliability.

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## EXHIBIT "B"

### IRVINE RANCH WATER DISTRICT POLICY POSITION UPDATES TO METROPOLITAN WATER DISTRICT'S LOCAL RESOURCES PROGRAM

September 10, 2018

#### Issue Summary:

Metropolitan Water District of Southern California (Metropolitan) encourages the development of local water resources in its service area through the implementation of the Local Resources Program (LRP). This program provides incentives to water agencies for the development of water recycling, groundwater recovery and seawater desalination projects that offset a demand or prevent adding a new demand on Metropolitan for imported water supplies. The development of local water supplies is seen by Metropolitan as a way to reduce the need to increase imported water supplies. The incentive program also indirectly increases regional water supply reliability, decreases the burden on Metropolitan's infrastructure, reduces costs and frees up conveyance capacity in Metropolitan's system.

Metropolitan is considering making revisions to its Local Resources Program to deal with both near-term and long-term policy issues that are interrelated to its Integrated Resources Plan. The Municipal Water District of Orange County is engaged with Metropolitan in the policy discussions and seeking input from its member agencies on the issues. To help guide IRWD's advocacy efforts related to the ongoing LRP discussions, staff has prepared this Policy Position Paper.

#### Background:

In 2014, Metropolitan issued guidelines for agencies to use when applying for LRP incentives for water recycling, groundwater recovery, and seawater desalination projects. These guidelines provide details on the program, general requirements and the application process. In July 2017, Metropolitan adopted policy principles that guide Metropolitan's role in regional implementation of Integrated Water Resources Plan targets for local resources. These principles identify that Metropolitan should have multiple approaches for developing local resources in cooperation with other agencies. To date, the LRP program remains the primary method that Metropolitan utilizes to encourage local water resource development.

Currently, Metropolitan offers three LRP incentive payment structures for the development of water recycling, groundwater recovery, and seawater desalination projects. The three options are described as follows:

- Option 1:* Sliding scale incentives up to \$340 per acre-foot over 25 years;
- Option 2:* Sliding scale incentives up to \$475 per acre-foot over 15 years; or
- Option 3:* Fixed incentives up to \$305 per acre-foot over 25 years.

Sliding scale payments are based on actual project unit costs that exceed Metropolitan's prevailing Full Service Tier-1 Treated Water Rate. Fixed incentives are negotiated such that Metropolitan's maximum obligation would not exceed 90% of Metropolitan's commitment to provide funding under Option 1. LRP incentives remain contingent upon the approval of the Metropolitan Board of Directors.

There are numerous opportunities that are available to Metropolitan to update its LRP and to develop new approaches to encourage local resource development. The following policy

principles provide a basis for IRWD’s advocacy for making such improvements and for developing new approaches.

Policy Principles:

1. Metropolitan should consider the needs of its member agencies in implementing incentive programs other than the LRP to encourage water supply projects located both in and outside of Metropolitan’s service area that improve the water supply reliability of Metropolitan and its member agencies.
2. Metropolitan should establish criteria for prioritizing LRP incentives to local resource projects in areas with reduced water supply reliability as compared to other areas of Metropolitan’s service area (e.g., South Orange County and the northern areas of Metropolitan’s service area). Such criteria should ensure regional supply benefits while addressing local supply reliability issues.
3. LRP funding should not be provided to projects that result in local communities subsidizing other areas of Metropolitan’s service area. Such reverse subsidization occurs whenever LRP incentives are unable, within a short period of time, to bring the cost of water down to the Full Service Tier-1 Treated Rate offered by Metropolitan.
4. LRP funding should not result in significant impacts to Metropolitan treatment facilities. Any such impacts should be justified through an actual improvement in local agency water supply reliability rather than just simply replacing one supply for another.
5. LRP funding should also be offered to agencies for projects that will result in reductions in demands for untreated water from Metropolitan with incentives being provided down to the cost of Full Service Tier-1 Untreated Rate offered by Metropolitan such as recycled water storage projects.
6. Metropolitan should index its LRP incentives to inflation to improve the feasibility and life cycle costs of local resource projects.
7. Metropolitan should expand the LRP or develop other incentives programs to encourage storm water and urban runoff capture and reuse projects that do not result in reductions in supplies to others.
8. A new incentive program should be implemented by Metropolitan that promotes development of extraordinary supplies from projects located outside Metropolitan’s service area. Such projects can reduce Metropolitan’s need to improve the reliability of its imported supplies by augmenting supplies during periods of droughts, emergencies and water supply allocations. Metropolitan incentives would be paid at the time water from such a project is imported to Metropolitan’s service area for use by the local agency.
9. Incentives should be provided to fund large “on-site” reuse projects that defer or avoid Metropolitan's capital and/or operational costs. Such incentives could be provided to

customers such as large-scale industrial facilities where the feasibility of implementing on-site reuse projects depends on receiving incentive funding.

10. Metropolitan should provide LRP incentives to desalination projects through separate funding initiatives that do not impair the ability of non-desalination related local projects to receive funding under existing Metropolitan limits for LRP investments.

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March 9, 2020  
Prepared and  
submitted by: C. Compton  
Approved by: Paul A. Cook



## ACTION CALENDAR

### REVISED IRWD WATER RESOURCES FUNDING POLICY PRINCIPLES

#### SUMMARY:

Irvine Ranch Water District policy position papers are reviewed periodically to determine if the positions are still valid, need to be revised or if new papers should be written on different issues. Based on the discussions taking place in Sacramento regarding the 2020 climate resilience bond, which is expected to include funding for water infrastructure, staff has updated the existing IRWD Water Resources Funding Policy Principles paper that was previously adopted by the Board on August 1, 2013, and recommends Board approval of those revisions.

#### BACKGROUND:

In 2004, IRWD began producing policy white papers on topics of particular interest to the District. Because of IRWD's standing in the water industry, the opinion of the District is regularly solicited on issues of vital interest to the industry and the community. In order to keep these position papers current and usable for explaining IRWD's position, staff occasionally recommends that the Board review the papers and when appropriate, incorporate revisions. A draft of the proposed revised IRWD Water Resources Funding Policy Principles is provided as Exhibit "A".

IRWD's Water Resources Funding Policy Principles paper was last revised and adopted by the Board on August 1, 2013. A copy of the 2013 Policy is provided as Exhibit "B". At that time, the California Legislature was debating the reformulation of the Safe, Clean and Reliable Drinking Water Supply Act of 2010. In 2010, the Legislature moved that water bond to the November 2012 ballot and eventually replaced it with Proposition 1, the Water Quality, Supply and Infrastructure Improvement Act of 2014. Proposition 1 was approved by the voters in November 2014.

In 2019, both the Senate and Assembly announced their interest in placing a climate resilience bond on the November 2020 ballot. In his Fiscal Year 2020-21 proposed budget, Governor Gavin Newsom confirmed his interest in a climate resilience bond and released his proposed bond funding plan. Discussions related to the total size of a climate resilience bond and the funding allocations are ongoing in Sacramento.

Given the ongoing discussion on the climate resilience bond, water resources infrastructure funding will continue to be a point of discussion within and around the State Capitol this legislative session and beyond. Given the discussions concerning a bond, staff has updated the IRWD Water Infrastructure Funding Policy Principles adopted by the Board on August 1, 2013, to reflect the current landscape and recommends the Board approve the updated IRWD Water Infrastructure Funding Policy Principles

FISCAL IMPACTS:

None.

ENVIRONMENTAL COMPLIANCE:

None.

COMMITTEE STATUS:

This item was reviewed by the Water Resources Policy and Communications Committee on March 5, 2020.

RECOMMENDATION:

THAT THE BOARD ADOPT THE UPDATED IRWD POLICY PRINCIPLES REGARDING CALIFORNIA WATER RESOURCES FUNDING.

LIST OF EXHIBITS:

Exhibit "A" – Proposed IRWD Water Infrastructure Funding Policy Principles

Exhibit "B" – IRWD Water Infrastructure Funding Policy Principles, dated August 1, 2013



EXHIBIT “A”  
DRAFT  
IRWD WATER RESOURCES FUNDING POLICY PRINCIPLES  
MARCH X, 2020

ISSUE SUMMARY:

The California Legislature is discussing the placement of a climate resilience bond on the November 2020 ballot. As has been discussed by the Governor and key members in the Legislature, water infrastructure funding will likely comprise a substantial portion of the bond.

As a state and federal leader in water resources public policy and governance, the Irvine Ranch Water District (IRWD) has worked tirelessly to promote policy initiatives that allow the District, along with other water purveyors in California, to enhance the quality and reliability of water supplies throughout the state. As a means of providing input into the discussions surrounding the climate resilience bond, and in order to guide the District’s advocacy efforts related to California infrastructure funding, the following policy principles have been adopted by the IRWD Board of Directors.

POLICY PRINCIPLES:

Any water resources bond or infrastructure funding measure adopted by the Legislature or put before California voters that includes water infrastructure funding should be guided by the following principles:

- 1) The State has a role in financing water infrastructure. The State should play a role in the financing of water infrastructure that is of demonstrated statewide significance and/or benefit.
- 2) Bond titles should reflect the type(s) of infrastructure the bond primarily funds. A statewide bond that includes “water” in its title should include substantial funding for water infrastructure. If substantial funding for water is not included, the title should not include “water.”
  - In the case of a climate resilience bond, which is designed to fund water infrastructure, wildfire response and climate resilience, no less than one-third of the funding should be allocated to water resource development and water infrastructure; and
  - Funding for flood control, watershed health, and species/habitat restoration and conservation should be included in the climate resilience funding contained in the bond.
- 3) Bond and infrastructure financing measures must be fiscally responsible. Proposed water bonds and water infrastructure funding measures should be fiscally responsible and politically viable.
- 4) Transparency and accountability should be built into all bond measures. Statewide bond measures must include specific programmatic funding allocations as opposed to allocations for general categories of infrastructure. Inclusion of programmatic funding allocations

provides a spending plan that voters can evaluate when deciding on a bond and be measured against when holding the State accountable for the spending of bond proceeds.

- 5) Distribution of funds should be equitable, balanced and reasonable. Water bond and water infrastructure funding measures must strengthen water supply reliability and water quality for all Californians. Bond proceeds should be distributed to beneficial projects throughout the entire state in an equitable, balanced and reasonable manner.
- 6) Water bonds should support the development of safer, more secure and more resilient water supplies for the entire state. To support a safe and secure water supply, the climate resilience bond should allocate funding to programs which will increase water resilience across the state. Because each community has different water supplies and infrastructure needs, in order to build resilience across the state, the bond should provide funding for a diverse set of water resources programs. The bond should:
  - Support water supply reliability enhancement through the funding of water recycling, water quality (treatment / removal of PFAS and other contaminants of emerging concern (CEC)), water use efficiency and groundwater recharge, water banking, conjunctive use, protection and quality improvement projects;
  - Provide funding for sustainable safe drinking water solutions within disadvantaged communities without sufficient access to safe drinking water;
  - Establish new funding programs to fund the creation of new and enhanced regional conveyance facilities that better integrate surface and groundwater storage, and to fund local dam safety improvements at high-risk dams associated with water supplies; and
  - Distribute funding for regional projects through Integrated Regional Water Management Planning programs while distributing fund decisions on projects of statewide significance should be made at the state level.
- 7) Funded project must demonstrate cost effectiveness and benefit. Proposed water bond and water infrastructure financing measures should include specific criteria which must be met before a project obtains funding. The specific criteria should include cost-effectiveness, a project proponent's ability to implement the project, specific timelines for project implementation, and a high level of measurable benefit.
- 8) Bond proceeds should be leveraged to the maximum extent possible. Bond proceeds should be leveraged to the maximum extent possible utilizing local or federal matching funds. Projects funded with a higher percentage of non-state funds should be given priority. Additionally, funds should be allocated in the most cost-effective manner possible. Innovative funding mechanisms such as design-build and public-private partnerships should be encouraged to the greatest extent practicable.

- 9) Administrative costs should be minimized. The administration of bond funds should be handled within existing state resources to minimize bond administration cost. Bond authority should be implemented and allocated in a comprehensive and cohesive manner through either the budget process or legislative consensus. Bond funds should not be allocated through a series of piecemeal legislative efforts.
  
- 10) A statewide user fee should not be imposed. A “user fee” or “beneficiary pays” program should never be a statewide program and should not be included in a water bond or water infrastructure financing measure. If such a fee is necessary, it should only be regionally administered, collected and distributed. Any such fee should be equitably and proportionally based on the project benefits derived by those who are subject to the fee, and “beneficiary” must be clearly defined to ensure a clear legal nexus between financial responsibility and benefits.

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# EXHIBIT "B"

## IRWD WATER RESOURCES FUNDING POLICY PRINCIPLES

AUGUST 1, 2013

### ISSUE SUMMARY:

The California Legislature is discussing the reformulating of the Safe, Clean and Reliable Drinking Water Supply Act of 2014. As a state and federal leader in water resources public policy and governance, the Irvine Ranch Water District (IRWD) has worked tirelessly to promote policy initiatives that allow the District, along with other water purveyors in California, to enhance the quality and reliability of water supplies throughout the state. As a means of providing input into the discussions surrounding the water bond, and in order to guide the District's advocacy efforts related to California infrastructure funding, the following policy principles have been adopted by the IRWD Board of Directors.

### POLICY PRINCIPLES:

Any water resource bond or infrastructure funding measure adopted by the Legislature or put before California voters should be guided by the following principles:

- 1) **The State has a role in financing water infrastructure.** The state should play a role in the financing of water infrastructure that is of demonstrated statewide significance and benefit including:
  - Projects that enhance and optimize statewide water supply reliability and quality.
  - Projects that support ecosystem restoration in the Delta.
- 2) **Infrastructure financing measures must be fiscally responsible.** Any proposed water bond or water infrastructure funding measure should be fiscally responsible and politically viable. Transparency and accountability should be built into all bond or funding measures.
- 3) **Balance of the 2009 Delta/Water Package must be maintained.** The Safe, Clean and Reliable Drinking Water Supply Act was carefully crafted as part of the 2009 Delta/Water Package. Reformulating the bond risks unraveling the careful balance that allowed that package to be completed. Special care must be taken to maintain the balance and goals behind the 2009 package.
- 4) **Water bond must support co-equal goals.** A reformulated bond must continue to support the co-equal goals of water supply reliability and ecosystem restoration. The bond should:
  - Maintain funding for the Delta ecosystem restoration.
  - Appropriate adequate funds for statewide storage and drought relief projects both north and south of the Delta.
  - Fund local resource development to reduce dependence on the Delta. Funding for regional projects should be distributed through Integrated Regional Water Management Planning programs while funding decisions on projects of statewide significance should be made at the state level.
  - Support water supply reliability enhancement through the funding of water recycling, conservation, and groundwater protection and quality improvement projects. These projects should increase local supply reliability and reduce reliance on the Delta.

- 5) **Water bond should support pursuit of a safe and secure water supply.** To support a safe and secure water supply, the bond must include a long term Delta solution that addresses enhanced conveyance and environmental protection consistent with the Bay Delta Conservation Plan and the Delta Plan development process. The bond should be limited to funding large-scale water storage and conveyance projects that best enhance and optimize water supply reliability, reduce reliance on the Delta, and substantially improve water quality.
- 6) **Distribution of funds should be equitable, balanced and reasonable.** A water bond or water infrastructure funding measure must strengthen water supply reliability and water quality for all Californians. Bond proceeds should be distributed to beneficial projects throughout the entire state in an equitable, balanced and reasonable manner.
- 7) **Funded project must demonstrate cost effectiveness and benefit.** Any proposed water bond or water infrastructure financing measure should include specific criteria which must be met before a project obtains funding. The specific criteria should include cost-effectiveness, a project proponent's ability to implement the project, specific timelines for project implementation, and a high level of measurable benefit.
- 8) **Bond proceeds should be leveraged to the maximum extent possible.** Bond proceeds should be leveraged to the maximum extent possible utilizing local or federal matching funds. Projects funded with a higher percentage of non-state funds should be given priority. Additionally, funds should be allocated in the most cost-effective manner possible. Innovative funding mechanisms such as design-build and public-private partnerships should be encouraged to the greatest extent practicable.
- 9) **Administrative costs should be minimized.** The allocation of bond funds should be handled within existing state resources to minimized bond administration cost. Bond authority should be implemented and allocated in a comprehensive and cohesive manner through either the budget process or legislative consensus. Bond funds should not be allocated through a series of piecemeal legislative efforts.
- 10) **A statewide user fee should not be imposed.** A "user fee" or "beneficiary pays" program should never be a statewide program. If such a fee is necessary, it should only be regionally administered, collected and distributed. Any such fee should be equitably and proportionally based on the project benefits derived by those who are subject to the fee, and "beneficiary" must be clearly defined to ensure a clear legal nexus between financial responsibility and benefits.
  - If a statewide water fee or public goods charge is established, it should include an exemption for water providers that have implemented a rate structure that provides a method for collecting revenue dedicated to water conservation projects such as IRWD's allocation-based conservation rate structure.
  - If a statewide fee is established, the challenges local water providers face in setting rates, including Proposition 218 requirements, should be taken into account.