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

June 27, 2022

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

**<u>ROLL CALL</u>** Directors Reinhart, Withers, Swan, McLaughlin, and President LaMar

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

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

Via Web: <u>https://irwd.webex.com/irwd/j.php?MTID=me94975bb693ac2a655576bb7e77f0db5</u> Meeting Number (Access Code): 2492 147 4169 Meeting Password: TUhRPCip242

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

## PUBLIC COMMENT NOTICE

Public comments are limited to three minutes per speaker on each subject. If you wish to address the Board of Directors on any item, you may attend the meeting in person and submit a "speaker slip" to the Secretary. Forms are provided outside of IRWD's Board Room. If attending via Webex, please submit your request to speak, or your comment, via the "chat" feature and your remarks will be read into the record at the meeting. You may also submit a public comment in advance of the meeting by emailing comments@irwd.com before 12:00 p.m. on Monday, June 27, 2022.

#### **COMMUNICATIONS TO THE BOARD**

- 1. A. <u>Written:</u>
- 2. B. <u>Oral:</u>
- 3. <u>ITEMS RECEIVED TOO LATE TO BE AGENDIZED</u>

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

#### **BOARD WORKSHOP**

#### 4. <u>MID-CYCLE CAPITAL BUDGET UPDATE FOR FISCAL YEARS 2021-22</u> AND 2022-23

Recommendation: That the Board receive and file the Mid-Cycle Capital Budget Update for Fiscal Years 2021-22 and 2022-23 and approve the recommended changes for the Fiscal Year 2022-23 Mid-Cycle Capital Budget project additions as proposed.

## **CONSENT CALENDAR, ITEMS 5-8**

#### 5. <u>BOARD MEETING MINUTES</u>

Recommendation: That the Minutes of the June 13, 2022 Regular Board Meeting be approved as presented.

#### 6. <u>RATIFY/APPROVE BOARD OF DIRECTORS' ATTENDANCE AT</u> <u>MEETINGS AND EVENTS IN 2022</u>

Recommendation: That the Board ratify/approve the events for Steven LaMar, Douglas Reinhart, and John Withers as described herein.

#### 7. <u>MAY 2022 TREASURY REPORTS</u>

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 May 2022 summary of payroll ach payments in the total amount of \$2,152,952, and approve the May 2022 accounts payable disbursement summary of warrants 426894 through 427728, workers' compensation distributions, wire transfers, payroll withholding distributions and voided checks in the total amount of \$13,677,593.

#### 8. <u>SEAWATCH RECYCLED WATER PRESSURE REDUCING STATION</u> <u>CONSTRUCTION AWARD</u>

Recommendation: That the Board reject the bid of GCI Construction, Inc. as non-responsive and authorize the General Manager to execute a Construction Contract with T.E. Roberts, Inc. in the amount of \$383,155 for the Seawatch Recycled Water Zone G to G\_R Pressure Reducing Station, Project 11597.

#### **ACTION CALENDAR**

#### 9. <u>SEWER SIPHON IMPROVEMENTS PHASE II CONSULTANT SELECTION</u>

Recommendation: That the Board authorize the General Manager to execute a Professional Services Agreement with Woodard & Curran in the amount of \$1,285,684 for Design Engineering Services for the Sewer Siphon Improvements Phase II, Project 11841.

#### 10. <u>CONDITION ASSESSMENT FOR PUMP STATIONS AND TANKS</u> <u>CONSULTANT SELECTION</u>

Recommendation: That the Board authorize the General Manager to execute a Professional Services Agreement with HDR Engineering, Inc. in the amount of \$367,800 for the Condition Assessment for Pump Stations and Tanks, Projects 12252 and 12254.

#### **OTHER BUSINESS**

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

- 11. General Manager's Report
- 12. Receive oral update(s) from District liaison(s) regarding communities within IRWD's service area and provide information on relevant community events.
- 13. Directors' Comments
- 14. Closed Session
  - CONFERENCE WITH LEGAL COUNSEL—EXISTING LITIGATION- Pursuant to Government Code Section 54956.9(d)(1): *Graciela Montejano v. IRWD, Paul Cook and Does 1 through 50*, Case No. 30-2022-01251588-CU-OE-NJC
- 15. Open Session
- 16. Adjournment

IRWD Board of Directors' Meeting June 27, 2022 Page 4

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

June 27, 2022 Prepared by: M. Robinson / E. Akiyoshi Submitted by: K. Burton Approved by: Paul A. Cook

#### BOARD WORKSHOP

#### MID-CYCLE CAPITAL BUDGET UPDATE FOR FISCAL YEARS 2021-22 AND 2022-23

#### SUMMARY:

IRWD's two-year Capital Budget for Fiscal Years (FY) 2021-22 and 2022-23 was approved by the Board on April 26, 2021. At the Board meeting, staff will provide a presentation on the Midcycle Capital Budget Update for FY 2021-22 and 2022-23. Staff recommends the Board receive and file the update for the IRWD Capital Budget and approve the recommended changes to the FY 2021-22 and 2022-23 Capital Budget.

#### **BACKGROUND:**

In April 2021, the Board-approved Capital Budget included forecasted expenditures (forecasted work completed) for FY 2021-22 and FY 2022-23 of \$116.7 million and \$107.5 million, respectively.

Since April 2021, there have been Board-approved increases, and updates to project schedules. Staff's presentation summarizing the Mid-cycle Capital Budget Update, provided as Exhibit "A", highlights these changes to the total budget and the forecasted expenditures for FY 2021-22. Exhibit "A" also shows the proposed budget increases and additions of \$6.5 million. The Capital Budget Project Additions list is provided as Exhibit "B".

#### FISCAL IMPACTS:

The following table presents the resulting total budget increase to the Capital Budget and forecasted expenditures for FY 2022-23 from the project additions.

| Funding Source                   | Total Budget Increase (\$) |
|----------------------------------|----------------------------|
| Replacement Fund                 | \$ 5.7 M                   |
| Developed Improvement Districts  | \$ 0.4 M                   |
| Developing Improvement Districts | \$ 0.4 M                   |
| Total All Projects               | \$ 6.5 M                   |

#### ENVIRONMENTAL COMPLIANCE:

Not applicable.

#### COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on June 21, 2022.

Board Workshop: Mid-cycle Capital Budget Update for Fiscal Years 2021-22 and 2022-23 June 27, 2022 Page 2

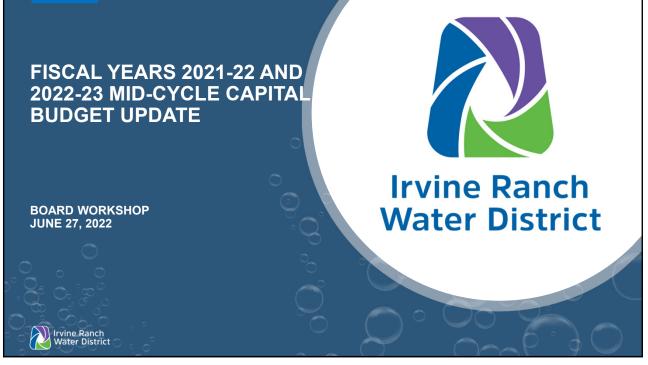
#### **RECOMMENDATION:**

## THAT THE BOARD RECEIVE AND FILE THE MID-CYCLE CAPITAL BUDGET UPDATE FOR FISCAL YEARS 2021-22 AND 2022-23 AND APPROVE THE RECOMMENDED CHANGES FOR THE FISCAL YEAR 2022-23 MID-CYCLE CAPITAL BUDGET PROJECT ADDITIONS AS PROPOSED.

#### LIST OF EXHIBITS:

Exhibit "A" – Mid-cycle Capital Budget Presentation Exhibit "B" – Mid-cycle Capital Budget Project Additions for FY 2022-23

## EXHIBIT "A"



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## **PRESENTATION OUTLINE**

- Review FY 2021-22:
  - Approved Budget
  - o Earned Value
  - Board Approved Increases
- Proposed Budget Increases and Additions
- FY 2022-23 Mid-Cycle Forecasted Expenditures





#### Original Forecast Expenditures Presented to the Board in April 2021

| Replacement - Facilities\$40.1M\$30.5MOperational\$21.0M\$19.0MWater Banking\$14.4M\$25.1MOCSD - CORF - Solids Lease\$9.3M\$13.5MNonpotable Storage\$8.7M\$6.0MDevelopment\$6.0M\$2.1MProperty Management\$5.0M\$0.0MSewage Treatment\$2.6M\$5.4MGeneral Plant\$2.4M\$1.7MReplacement-Business Software\$2.3M\$0.0MPlanning\$2.3M\$2.1M  | and a state of the second s |          | Poplacement - Facilities      |
|--|---|----------|-------------------------------|
| Water Banking\$14.4M\$25.1MOCSD - CORF - Solids Lease\$9.3M\$13.5MNonpotable Storage\$8.7M\$6.0MDevelopment\$6.0M\$2.1MProperty Management\$5.0M\$0.0MSewage Treatment\$2.6M\$5.4MGeneral Plant\$2.4M\$1.7MReplacement-Business Software\$2.3M\$0.0M   | \$19.0M   |          | Replacement - racinties       |
| OCSD - CORF - Solids Lease\$9.3M\$13.5MNonpotable Storage\$8.7M\$6.0MDevelopment\$6.0M\$2.1MProperty Management\$5.0M\$0.0MSewage Treatment\$2.6M\$5.4MGeneral Plant\$2.4M\$1.7MReplacement-Business Software\$2.3M\$0.0M  | \$15.01VI   | \$21.0M  | Operational                   |
| Nonpotable Storage\$8.7M\$6.0MDevelopment\$6.0M\$2.1MProperty Management\$5.0M\$0.0MSewage Treatment\$2.6M\$5.4MGeneral Plant\$2.4M\$1.7MReplacement-Business Software\$2.3M\$0.0M   | \$25.1M   | \$14.4M  | Water Banking                 |
| Development\$6.0M\$2.1MProperty Management\$5.0M\$0.0MSewage Treatment\$2.6M\$5.4MGeneral Plant\$2.4M\$1.7MReplacement-Business Software\$2.3M\$0.0M   | \$13.5M   | \$9.3M   | OCSD - CORF - Solids Lease    |
| Property Management\$5.0M\$0.0MSewage Treatment\$2.6M\$5.4MGeneral Plant\$2.4M\$1.7MReplacement-Business Software\$2.3M\$0.0M  | \$6.0M  | \$8.7M   | Nonpotable Storage            |
| Sewage Treatment\$2.6M\$5.4MGeneral Plant\$2.4M\$1.7MReplacement-Business Software\$2.3M\$0.0M   | \$2.1M  | \$6.0M   | Development                   |
| General Plant     \$2.4M     \$1.7M       Replacement-Business Software     \$2.3M     \$0.0M  | \$0.0M  | \$5.0M   | Property Management           |
| Replacement-Business Software \$2.3M \$0.0M  | \$5.4M  | \$2.6M   | Sewage Treatment              |
| The subsection was a strategies of the strategie | \$1.7M  | \$2.4M   | General Plant                 |
| Planning \$2.3M \$2.1M   | \$0.0M  | \$2.3M   | Replacement-Business Software |
|  | \$2.1M  | \$2.3M   | Planning                      |
| Water Resources \$1.6M \$1.3M  | \$1.3M  | \$1.6M   | Water Resources               |
| OCWD Annexation \$0.6M \$0.6M  | \$0.6M  | \$0.6M   | OCWD Annexation               |
| Baker WTP \$0.2M \$0.1M  | \$0.1M  | \$0.2M   | Baker WTP                     |
| Solids Handling \$0.1M \$0.0M  | \$0.0M  | \$0.1M   | Solids Handling               |
| Total \$116.7M \$107.5M  | \$107.5M  | \$116.7M | Total                         |
|  |   |          |                               |
|  |   |          |                               |
|  |   |          |                               |
|  |   |          |                               |

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## Actual Capital Project Earned Value In FY 2021-22

| Capital Project Categories    | Original FY 21-22<br>Forecast | Actual Earned<br>Value In FY 21-22 | Difference in Forecast<br>and Actual Earned Value |
|-------------------------------|-------------------------------|------------------------------------|---|
| Replacement - Facilities      | \$40.1M                       | \$36.4M                            | (\$3.7M)  |
| Operational                   | \$21.0M                       | \$10.1M                            | (\$10.9M)   |
| OCSD - CORF - Solids Lease    | \$9.3M                        | \$8.9M                             | (\$0.4M)  |
| Water Banking                 | \$14.4M                       | \$7.2M                             | (\$7.2M)  |
| Property Management           | \$5.0M                        | \$5.6M                             | \$0.6M  |
| Nonpotable Storage            | \$8.7M                        | \$5.3M                             | (\$3.4M)  |
| Development                   | \$6.0M                        | \$4.6M                             | (\$1.4M)  |
| Replacement-Business Software | \$2.3M                        | \$1.6M                             | (\$0.8M)  |
| Planning                      | \$2.3M                        | \$1.2M                             | (\$1.2M)  |
| General Plant                 | \$2.4M                        | \$1.1M                             | (\$1.4M)  |
| OCWD Annexation               | \$0.6M                        | \$0.2M                             | (\$0.4M)  |
| Water Resources               | \$1.6M                        | \$0.2M                             | (\$1.4M)  |
| Baker WTP                     | \$0.2M                        | \$0.0M                             | (\$0.1M)  |
| Sewage Treatment              | \$2.6M                        | \$0.0M                             | (\$2.6M)  |
| Solids Handling               | \$0.0M                        | \$0.0M                             | (\$0.0M)  |
| Total                         | \$116.7M                      | \$82.4M                            | (\$34.3M)   |



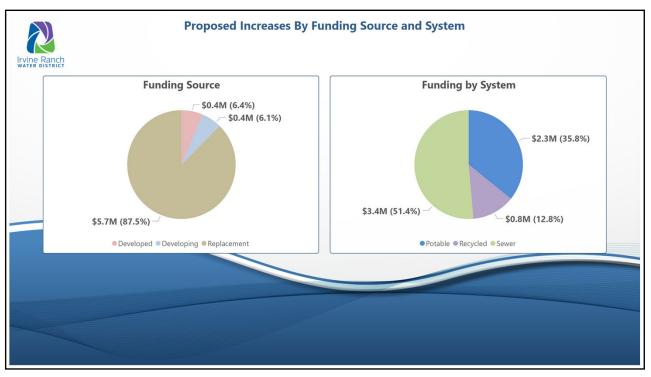
#### Mid-Year Board Approved Changes Since April 2021

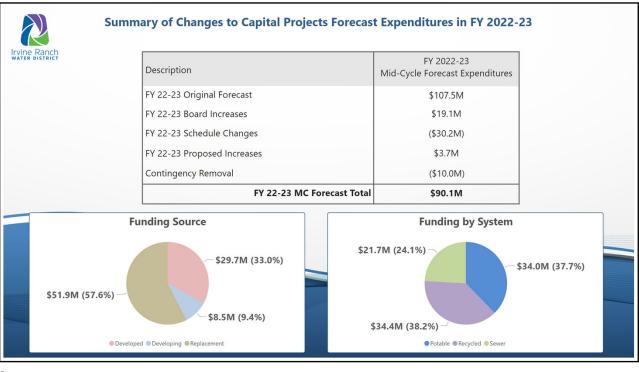
| Project<br>Number | Project Title                                     | April 2021 Board<br>Approved Total Budget | Mid-Year Board<br>Approved Increases | Current Board<br>Approved Budget |
|-------------------|---|---|--------------------------------------|----------------------------------|
| 11123             | LAKE FOREST WOODS SEWER ACCESS IMPROVEMENTS       | \$0.4M                                    | \$5.0M                               | \$5.3M                           |
| 11168             | LAKE FOREST ZONE C RECYCLED WATER PUMP STATION    | \$3.8M                                    | \$4.7M                               | \$8.5M                           |
| 11571             | WOODBRIDGE RECYCLED WATER PIPELINE REPLACEMENT    | \$11.0M                                   | \$4.2M                               | \$15.2M                          |
| 01398             | SANTIAGO CANYON AREA PUMP STATION IMPROVEMENTS    | \$6.6M                                    | \$3.6M                               | \$10.2M                          |
| 05761             | 15 MG ZONE 1 RESERVOIR INTERIOR COATING           | \$2.7M                                    | \$2.4M                               | \$5.2M                           |
| 11122             | HATS DIVERSION STRUCTURE REHABILITATION           | \$0.7M                                    | \$2.2M                               | \$2.9M                           |
| 12053             | IBC APPURTENANCE RELOCATION                       |   | \$0.9M                               | \$0.9M                           |
| 07886             | SEWER SIPHON REHABILITATION                       | \$9.7M                                    | \$0.8M                               | \$10.5M                          |
| 11869             | SAND CANYON PROFESSIONAL CENTER - GENERAL OFFICE  | \$5.4M                                    | \$0.7M                               | \$6.0M                           |
| 11746             | SITES RESERVOIR PLANNING AND ENVIRONMENTAL REVIEW | \$0.7M                                    | \$0.5M                               | \$1.2M                           |
|                   | Other   | \$4.9M                                    | (\$2.8M)                             | \$2.1M                           |
| Total             |   | \$45.9M                                   | \$22.1M                              | \$68.0M                          |

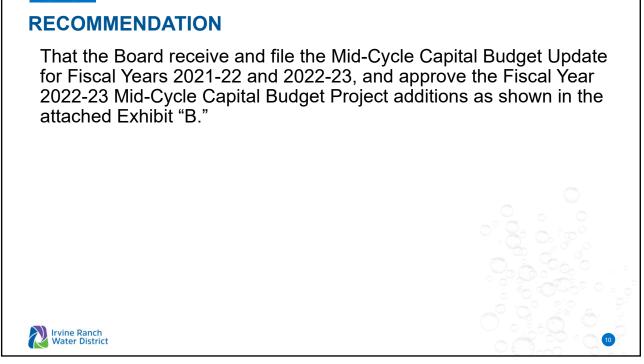
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| Project<br>Number | Project Title   | Proposed<br>Increases |
|-------------------|---|-----------------------|
| 12125             | 36 INCH SS RELOCATION AT SR133/SD CREEK                       | \$1.2M                |
| 11845             | WELL REHAB-DRWF 12  | \$0.8M                |
| 12215             | RIPARIAN VIEW PAVEMENT REHABILITATION                         | \$0.7M                |
| 12252             | CIP AM - CONDITION ASSESSMENT DW                              | \$0.5M                |
| 12254             | CIP AM - CONDITION ASSESSMENT RW                              | \$0.5M                |
| 12228             | PA51 D5 HARRIER FROM CHINON TO LYNX 12DW CODE 7808            | \$0.5M                |
| 12296             | MAIN/CARTWRIGHT MH REHABILITATION                             | \$0.4M                |
| 12230             | PA51 D5 D6 HARRIER FROM CHINON TO LYNX 10RW IRWD CODE 7808    | \$0.3M                |
| 12294             | EL TORO RD SMH RAISE TO GRADE                                 | \$0.3M                |
| 11585             | PUBLIC OUTREACH CAMPAIGN REPLACEMENTS                         | \$0.3M                |
| 11584             | PA12 REGIONAL ZONE A RW IMPROVEMENTS                          | \$0.2M                |
| 12232             | PA51 D5 D6 CHINON FROM HARRIER TO TREBLE 10RW IRWD CODE 7809  | \$0.2M                |
| 12229             | PA51 D5 D6 HARRIER FROM CHINON TO LYNX 12_15SS IRWD CODE 7808 | \$0.2M                |
| 12289             | NETWORK REDESIGN - DW   | \$0.2M                |
| 12290             | NETWORK REDESIGN - SS   | \$0.2M                |
| 12278             | MAXIMO UPGRADE DW   | \$0.2M                |
| 12279             | MAXIMO UPGRADE SS   | \$0.2M                |
| 11939             | PA51 MARINE AND BAKE 12DW                                     | \$0.2M                |
| 12203             | ORACLE EBS DIRECT LABOR BENEFITS COST ALLOCATION - DW         | \$0.2M                |
| 12204             | ORACLE EBS DIRECT LABOR BENEFITS COST ALLOCATION - SS         | \$0.2M                |
| 12205             | ORACLE EBS DATABASE UPGRADE - DW                              | \$0.1M                |
| 12206             | ORACLE EBS DATABASE UPGRADE - SS                              | \$0.1M                |
| 12231             | PA51 D5 D6 CHINON FROM HARRIER TO TREBLE 12DW IRWD CODE 7809  | \$0.1M                |
| 01642             | PA51 MASTER FACILITIES-SS                                     | (\$0.2M)              |
| 01103             | PA51 MASTER FACILITIES-RW                                     | (\$0.4M)              |
| 01466             | PA51 MASTER FACILITIES-DW                                     | (\$0.6M)              |
| Total             |   | \$6.5M                |







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## EXHIBIT "B"

## Irvine Ranch Water District Fiscal Year 2021-23 Mid-Cycle Capital Budget Project Additions

Improvement District

|                  |       |   | Date      | FP End<br>Date | Proposed Projects<br>Increases | FY 22-23 Proposed<br>Increases | 1100  | 1110 | 1120  | 1130 | 1250 | 1530 | 1540 | 1850 | 1880 2 | 100   | 2120  | 2130 22 | 20 225 | 24 | 00 233  | 0 23  | 20  | 10 20 | 50       |
|------------------|-------|---|-----------|----------------|--------------------------------|--------------------------------|-------|------|-------|------|------|------|------|------|--------|-------|-------|---------|--------|----|---------|-------|-----|-------|----------|
| Sewer Capital    | 12125 | 36 INCH SS RELOCATION AT SR133/SD CREEK | 3/1/2022  | 2/28/2024      | \$1,223,000                    | \$457,887                      |       |      |       |      |      |      |      |      | 1      | 100.0 |       |         |        |    |         |       |     |       |          |
| Potable Capital  | 12252 | CIP AM - CONDITION ASSESSMENT DW        | 5/1/2022  | 3/1/2023       | \$500,000                      | \$400,321                      | 100.0 |      |       |      |      |      |      |      |        |       |       |         |        |    |         |       |     |       |          |
| Recycled Capital | 12254 | CIP AM - CONDITION ASSESSMENT RW        | 5/1/2022  | 3/1/2023       | \$500,000                      | \$400,321                      |       |      |       |      |      |      |      |      | 1      | 100.0 |       |         |        |    |         |       |     |       |          |
| Sewer Capital    | 12294 | EL TORO RD SMH RAISE TO GRADE           | 5/1/2022  | 8/31/2023      | \$280,000                      | \$231,970                      |       |      |       |      |      |      |      |      | 1      | 100.0 |       |         |        |    |         |       |     |       |          |
| Sewer Capital    | 12296 | MAIN/CARTWRIGHT MH REHABILITATION       | 5/1/2022  | 7/31/2024      | \$429,000                      | \$95,270                       |       |      |       |      |      |      |      |      | 1      | 100.0 |       |         |        |    |         |       |     |       |          |
| Potable Capital  | 12278 | MAXIMO UPGRADE DW                       | 5/1/2022  | 3/31/2023      | \$180,000                      | \$147,273                      | 100.0 |      |       |      |      |      |      |      |        |       |       |         |        |    |         |       |     |       |          |
| Sewer Capital    | 12279 | MAXIMO UPGRADE SS                       | 5/1/2022  | 3/31/2023      | \$180,000                      | \$147,273                      |       |      |       |      |      |      |      |      | 1      | 100.0 |       |         |        |    |         |       |     |       |          |
| Potable Capital  | 12289 | NETWORK REDESIGN - DW                   | 1/1/2023  | 12/31/2023     | \$190,000                      | \$95,000                       | 100.0 |      |       |      |      |      |      |      |        |       |       |         |        |    |         |       |     |       |          |
| Sewer Capital    | 12290 | NETWORK REDESIGN - SS                   | 1/1/2023  | 12/31/2023     | \$190,000                      | \$95,000                       |       |      |       |      |      |      |      |      | 1      | 100.0 |       |         |        |    |         |       |     |       |          |
| Potable Capital  | 12205 | ORACLE EBS DATABASE UPGRADE - DW        | 5/1/2022  | 6/30/2023      | \$145,000                      | \$124,286                      | 100.0 |      |       |      |      |      |      |      |        |       |       |         |        |    |         |       |     |       |          |
| Sewer Capital    | 12206 | ORACLE EBS DATABASE UPGRADE - SS        | 5/1/2022  | 6/30/2023      | \$145,000                      | \$124,286                      |       |      |       |      |      |      |      |      | 1      | 100.0 |       |         |        |    |         |       |     |       |          |
| Potable Capital  | 12203 | ORACLE EBS DIRECT LABOR BENEFITS COST   | 5/1/2022  | 12/31/2023     | \$160,000                      | \$121,714                      |       | 35.1 | 4.8   | 3.4  | 46.4 | 7.8  | 0.4  | 1.6  | 0.5    |       |       |         |        |    |         |       |     |       |          |
| Sewer Capital    | 12204 | ORACLE EBS DIRECT LABOR BENEFITS COST   | 5/1/2022  | 6/30/2023      | \$160,000                      | \$137,143                      |       |      |       |      |      |      |      |      |        |       | 5.4   | 3.7 35  | .4 45. | 0  | 7       | 7.9 ( | 0.0 | 1.8 ( | 0.0      |
| Recycled Capital | 11584 | PA12 REGIONAL ZONE A RW IMPROVEMENTS    | 7/1/2020  | 12/31/2022     | \$220,000                      | \$13,334                       |       |      |       |      |      |      |      |      |        |       | 8.8   | 4.2 15  | .3 49. | 2  | 7.9 13. | .1    |     | 1.5   |          |
| Recycled Capital | 12232 | PA51 D5 D6 CHINON FROM HARRIER TO TRE   | 3/1/2022  | 4/1/2025       | \$215,000                      | \$22,715                       |       |      |       |      |      |      |      |      |        |       | 100.0 |         |        |    |         |       |     |       |          |
| Potable Capital  | 12231 | PA51 D5 D6 CHINON FROM HARRIER TO TRE   | 3/1/2022  | 4/1/2025       | \$84,000                       | \$22,008                       |       |      | 100.0 |      |      |      |      |      |        |       |       |         |        |    |         |       |     |       |          |
| Recycled Capital | 12230 | PA51 D5 D6 HARRIER FROM CHINON TO LYN   | 3/1/2022  | 4/1/2025       | \$303,000                      | \$23,190                       |       |      |       |      |      |      |      |      |        |       | 100.0 |         |        |    |         |       |     |       |          |
| Sewer Capital    | 12229 | PA51 D5 D6 HARRIER FROM CHINON TO LYN   | 3/1/2022  | 4/1/2025       | \$213,000                      | \$22,705                       |       |      |       |      |      |      |      |      |        |       | 100.0 |         |        |    |         |       |     |       | <b>_</b> |
| Potable Capital  | 12228 | PA51 D5 HARRIER FROM CHINON TO LYNX 1   | 3/1/2022  | 4/1/2025       | \$496,000                      | \$24,232                       |       |      | 100.0 |      |      |      |      |      |        |       |       |         |        |    |         |       |     |       |          |
| Potable Capital  | 11939 | PA51 MARINE AND BAKE 12DW               | 5/1/2021  | 6/30/2024      | \$163,000                      | \$42,976                       |       |      | 100.0 |      |      |      |      |      |        |       |       |         |        |    |         |       |     |       |          |
| Potable Capital  | 01466 | PA51 MASTER FACILITIES-DW               | 7/1/2023  | 6/30/2029      | (\$600,000)                    |                                |       |      | 100.0 |      |      |      |      |      |        |       |       |         |        |    |         |       |     |       | 7        |
| Recycled Capital | 01103 | PA51 MASTER FACILITIES-RW               | 7/1/2023  | 6/30/2029      | (\$400,000)                    |                                |       |      |       |      |      |      |      |      |        |       | 100.0 |         |        |    |         |       |     |       | 7        |
| Sewer Capital    | 01642 | PA51 MASTER FACILITIES-SS               | 7/1/2023  | 6/30/2029      | (\$200,000)                    |                                |       |      |       |      |      |      |      |      |        |       | 100.0 |         |        |    |         |       |     |       | 7        |
| Potable Capital  | 11585 | PUBLIC OUTREACH CAMPAIGN REPLACEMEN     | 4/1/2020  | 12/31/2022     | \$250,000                      | \$75,000                       | 100.0 |      |       |      |      |      |      |      |        |       |       |         |        |    |         |       |     |       |          |
| Sewer Capital    | 12215 | RIPARIAN VIEW PAVEMENT REHABILITATION   | 3/1/2022  | 2/28/2024      | \$735,000                      | \$264,839                      |       |      |       |      |      |      |      |      | 1      | 100.0 |       |         |        |    |         |       |     |       |          |
| Potable Capital  | 11845 | WELL REHAB-DRWF 12                      | 4/21/2022 | 8/31/2023      | \$770,000                      | \$638,778                      | 100.0 |      |       |      |      |      |      |      |        |       |       |         |        |    |         |       |     |       | 7        |
| Total            |       |   |           |                | \$6,531,000                    | \$3,727,520                    |       |      |       |      |      |      |      |      |        |       |       |         |        |    |         |       |     |       | 7        |
| l i              |       |   | 1         |                |                                | 1                              | 1 1   |      |       |      |      |      |      |      | 1      |       | 1     | I.      | 1      | 1  | I.      | 1     | ,   | 1     | 1        |

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June 27, 2022 Prepared and submitted by: L. Bonkowski Approved by: Paul A. Cook

#### CONSENT CALENDAR

#### **BOARD MEETING MINUTES**

#### SUMMARY:

Provided are the minutes of the June 13, 2022 Regular Board meeting for approval.

#### FISCAL IMPACTS:

None.

#### ENVIRONMENTAL COMPLIANCE:

Not applicable.

#### COMMITTEE STATUS:

Not applicable.

#### **RECOMMENDATION:**

# THAT THE MINUTES OF THE JUNE 13, 2022 REGULAR BOARD MEETING BE APPROVED AS PRESENTED.

#### LIST OF EXHIBITS:

Exhibit "A" – June 13, 2022 Minutes

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## EXHIBIT "A"

## MINUTES OF REGULAR MEETING –JUNE 13, 2022

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 LaMar on June 13, 2022 at the District offices, 15600 Sand Canyon Avenue, Irvine. This meeting was also held via teleconference with Director McLaughlin participating remotely, and due to noticing requirements, she abstained from voting.

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

Directors Absent: None.

Written and Oral Communications: None.

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

## WORKSHOP

# MID-CYCLE OPERATING AND NON-OPERATING REVIEW THROUGH FISCAL YEAR 2022-23

Executive Director of Finance and Administration Clary reported that the two-year operating and non-operating budgets for Fiscal Year (FY) 2021-22 and FY 2022-23 were approved by the Board in April 2021, and rates based on cost-of-service through June 30, 2023 were adopted by the Board in January 2022. Ms. Clary said that staff conducted a detailed review of the second year of the two-year approved budgets for FY 2022-23 and using a PowerPoint presentation, reviewed the mid-cycle operating and non-operating budgets noting that forecasted expense variance is \$6.0 million, and that staff is recommending that the Rate Stabilization Fund be used to cover any shortfalls in operating expenses. She further said that Proposition 218 rules allow for recalculation of rates to include pass-through costs and that rates may be increased with notification of at least 30 days and without a public hearing or any additional action by the IRWD Board of Directors.

Following a brief discussion, Director Swan reported that this item was reviewed by the Finance and Personnel Committee on June 7, 2022.

#### CONSENT CALENDAR

General Manager Cook asked that Item No. 7, 2022 Legislative and Regulatory Update, be moved to the Action Calendar for an update on SB 1157 (Hertzberg).

Mr. Cook further said that each June, the Board is typically asked to consider changes to the salary schedules for District employees. He said that pursuant to Government Code 9495.3(c)(3), prior to taking final action on changes to salary schedules that include salary ranges for local agency executives, a summary of the recommended action for Item No. 8 is required. He said the recommendation for this item is to revise the District Salary Grade Schedules for FY 2022-23 in order to incorporate a revised Salary Grade Schedule and adopt a resolution superseding resolution No. 2022-9 revising Schedule of Positions and Salary Rate Ranges for the General Unit, the non-exempt Supervisor Unit, and for Managers, and exempt Supervisors, Confidential and Exempt Employees. He said that the revision to the salary grade scheduled is based on a cost-of-living adjustment of 7.9% for FY 2022-23.

On <u>MOTION</u> by Swan, seconded by Withers and carried (Swan, Withers, LaMar and Reinhart voting aye, and McLaughlin abstaining (4-0-1 vote), THE BOARD APPROVED CONSENT CALENDAR ITEMS 5, 6, AND 8 THROUGH 11 AS FOLLOWS:

## 5. <u>BOARD MEETING MINUTES</u>

Recommendation: That the minutes of the May 23, 2022 Regular Board meeting be approved as presented.

#### 6. <u>RATIFY/APPROVE BOARD OF DIRECTORS' ATTENDANCE AT MEETINGS</u> <u>AND EVENTS IN 2022</u>

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

#### 8. <u>ADOPTION OF REVISED IRWD SCHEDULE OF POSITIONS AND SALARY</u> <u>RATE RANGES FOR FISCAL YEAR 2022-23</u>

Recommendation: That the Board approve the revised Salary Grade Schedule and adopt the following resolution by title superseding Resolution No. 2022-8 and adopting a revised Schedule of Positions and Salary Rate Ranges for the General Unit, Non-exempt Supervisor Unit, and for Managers, Exempt Supervisors, Confidential and Exempt Employees.

## RESOLUTION NO. 2022–9

RESOLUTION OF THE BOARD OF DIRECTORS OF IRVINE RANCH WATER DISTRICT, SUPERSEDING RESOLUTION NO. 2022-8 AND ADOPTING A REVISED SCHEDULE OF POSITIONS AND SALARY RATE RANGES

## CONSENT CALENDAR (Continued)

#### 9. <u>LUMP SUM PAYMENT OPTION FOR EMPLOYER CONTRIBUTIONS FOR</u> <u>FISCAL YEAR 2022-23 TO THE CALIFORNIA PUBLIC EMPLOYEES'</u> <u>RETIREMENT SYSTEM</u>

Recommendation: That the Board approve the lump sum payment for employer contributions to the California Public Employees' Retirement System by making a one-time contribution of \$7,828,346 for IRWD's Fiscal Year 2022-23 employer Unfunded Accrued Liability contribution.

#### 10. IRVINE BUSINESS COMPLEX APPURTENANCE RELOCATIONS CONSTRUCTION AWARD

Recommendation: That the Board authorize the addition of Project 12053 to the Fiscal Year 2021-22 Capital Budget in the amount of \$908,000 and authorize the General Manager to execute a construction contract with T.E. Roberts, Inc. in the amount of \$557,303 for the Irvine Business Complex Appurtenance Relocations, Project 12053.

#### 11. <u>REHABILITATION OF DYER ROAD WELLFIELD WELLS 1, 11, AND 13</u> <u>FINAL ACCEPTANCE</u>

Recommendation: That the Board accept construction of the Rehabilitation of Dyer Road Wellfield Wells 1, 11, and 13, authorize the General Manager to file a Notice of Completion, and authorize the payment of retention 35 days after recording the Notice of Completion for Projects 07092, 07088, and 10098.

## ACTION CALENDAR

## IRWD GUIDING PRINCIPLES SCORECARD

Executive Director of Finance and Administration Clary reported that staff has provided operational performance measures to the Board on a quarterly basis since February 2015 and now recommends a refresh of the current measures. Ms. Clary said that the new Guiding Principles Scorecard is intended to reflect the critical performance measures that gauge the District's key business objectives and reflect the Board-adopted Guiding Principles.

Using a PowerPoint presentation, Financial Analyst Pardee reviewed the District's vision and guiding principles, the previously used operational performance measures, and the proposed guiding principles scorecard. Following discussion, staff will make adjustments to this document and also continue with some previous trends as requested by the Board.

#### 2022 ANNUAL WATER SUPPLY AND DEMAND ASSESSMENT

Using a PowerPoint presentation, Director of Water Resources Sanchez reported that IRWD's 2022 Annual Water Supply and Demand Assessment (AWSDA) is an assessment of the near-term outlook for supplies, demands and identification of any expected water shortage that may prompt response actions in the current year. Ms. Sanchez said that available supplies are assessed through staff coordination with Orange County Water District and regional wholesalers including Municipal Water District of Orange County and the Metropolitan Water District. She said that MWDOC's 2022 AWSDA shows that there is no imported water shortage affecting IRWD.

Ms. Sanchez then reviewed the Key Criteria and Assumptions for IRWD's 2022 AWSDA: 1) The AWSDA is based on IRWD's annual water budget and therefore considers the previous year's demands and projected future demands; 2) The AWSDA is based on a projected single dry year of unconstrained demands, which are defined as demands absent any water supply or demand restrictions; 3) Projected water supplies for the AWSDA include IRWD's supplemental water banking supplies that would be available for use on an emergency basis, if needed; and 4) IRWD can access additional imported supplies in Southern California and has the potential to pump additional groundwater, if needed. She said that as shown in the 2022 AWSDA, IRWD has no projected water shortage. IRWD has an overall surplus of 25% for potable supplies and a 2% surplus for non-potable supplies, with no shortage gap. The AWSDA demonstrates that the District's supplies are reliable and are in surplus.

Director Withers reported that this item was reviewed by the Water Resources Policy and Communications Committee on June 2, 2022. On <u>MOTION</u> by Withers, seconded by Reinhart, and carried (Swan, Withers, LaMar and Reinhart voting aye, and McLaughlin abstaining (4-0-1 vote), THE BOARD APPROVED THE 2022 ANNUAL WATER SUPPLY AND DEMAND ASSESSMENT FOR SUBMITTAL TO THE DEPARTMENT OF WATER RESOURCES PRIOR TO THE JULY 1, 2022, DEADLINE.

## IRWD CUSTOMER ENGAGEMENT AND ANALYTICS PROGRAM

Using a PowerPoint presentation, Director of Water Resources Sanchez provided background on the WaterSmart Software program implemented as a pilot program in 2012 which developed into a full-scale program in 2013 to present. She said that this web-based portal has 82,032 current active recipients that receive a 57% email open. She reviewed the program benefits some of which includes water use information and tips, alerts, and also contains a leak resolution and bill explainer section to assist customers to resolve issues online.

Ms. Sanchez said that the current Customer Engagement and Analytical Program services contract with WaterSmart expires on June 30, 2022, so in March 2022, staff issued a request for proposal (RFP) to 12 companies to provide Customer Engagement and Analytical Program services for the next five years. She said that in response to the RFP, proposals were received from five firms: AquaTrax, Open Channel Systems, Smart Energy Water, Util360, and WaterSmart. She said that staff completed a thorough evaluation of the written proposals, conducted interviews with each of the five companies, checked references, and evaluated cybersecurity measures. Based on this evaluation, staff recommends the selection of WaterSmart to provide program software and services for FY 2022-23, with annual options to extend the contract for up to five years.

She said that WaterSmart's software and services for IRWD's Customer Engagement and Analytical Program will provide IRWD with a customer portal, data analytics, and powerful customer communication tools. These tools provide IRWD with the ability to monitor and evaluate program marketing effectiveness and customer engagement with the portal as well as tailor other outreach messaging. Director Withers reported that this item was reviewed by the Water Resources Policy and Communications Committee on June 2, 2022. On <u>MOTION</u> by Withers, seconded by Swan and carried (Swan, Withers, LaMar and Reinhart voting aye, and McLaughlin abstaining (4-0-1 vote), THE BOARD AUTHORIZED THE GENERAL MANAGER TO EXECUTE A PROFESSIONAL SERVICES AGREEMENT WITH WATERSMART TO PROVIDE CUSTOMER ENGAGEMENT AND ANALYTICS PROGRAM SOFTWARE AND SERVICES FOR FISCAL YEAR 2022-23 IN THE AMOUNT OF \$191,101, WITH AN OPTION TO EXTEND THIS AGREEMENT ANNUALLY FOR UP TO FIVE YEARS WITH A 3% ANNUAL ESCALATOR FOR A TOTAL POTENTIAL COST OF \$1,014,600 OVER THE FIVE YEARS.

## FUNDING FOR EXPANSION OF IRWD TURF REBATE AND LANDSCAPE TUNE-UP PROGRAMS

On <u>MOTION</u> by Withers, seconded by Reinhart and carried (Swan, Withers, LaMar and Reinhart voting aye, and McLaughlin abstaining (4-0-1 vote), THE BOARD AUTHORIZED ADDITIONAL FUNDING IN THE AMOUNT OF \$1,000,000 FOR THE TURF REBATE PROGRAM AND \$131,000 FOR THE LANDSCAPE TUNE-UP PROGRAM AND APPROVED VARIANCE NO. 3 WITH CONSERV CONSTRUCTION INC. IN THE AMOUNT OF \$131,000.

## 2022 LEGISLATIVE AND REGULATORY UPDATE

Using a PowerPoint presentation, Director of Strategic Communications and Advocacy/Deputy General Counsel Compton provided an update on SB 157 (Hertzberg). She noted that all urban retail water users have to submit an annual water use report to the State Board pursuant to Water Code 10609.24 and described its objective. She then reviewed the proposed changes for lowering residential indoor standards.

On <u>MOTION</u> by Swan, seconded by Withers and carried (Swan, Withers, LaMar and Reinhart voting aye, and McLaughlin abstaining (4-0-1 vote), THE BOARD ADOPTED A "NEUTRAL IF AMENDED" POSITION ON SB 1157 WITH THE ASM. WATER, WILDLIFE AND PARKS AMENDMENTS.

## GENERAL MANAGER'S REPORT

General Manager Cook provided an update on the COVID-19 activity at the District and noted that it is calming down and may be able to implement optional masking next week.

#### DIRECTORS' COMMENTS

Director McLaughlin reported on her attendance at a WACO meeting and an IRWD Business Outreach luncheon.

Director Reinhart reported on his attendance at a South Orange County Agencies' Group meeting, an OCWD Board meeting, an OCWD Communications and Legislative Liaison Committee meeting, a WACO meeting, a MWDOC Planning and Operations Committee meeting, an OCWD Water Issues Committee meeting, a MWDOC Administration and Finance Committee meeting, and an OCWD Administration and Finance Issues Committee meeting. Director Swan reported that he attended all of the meetings listed.

Director Withers reported that he attended all of the meetings listed and that next Monday he will be attending a VerdeXchange meeting in LA. He also noted that Mr. Mike Stockstile and Mr. Pike Oliver wrote a book on the history of the Irvine Ranch, and that one chapter mentioned IRWD.

Director LaMar reported on his attendance at a Southern California Water Dialogue meeting, an NCC Executive Committee meeting, ACWA Executive Committee and Board meetings, an IRWD Business Outreach Luncheon, and a CCEEB Search Committee meeting in San Francisco.

## ADJOURNMENT

There being no further business, President LaMar adjourned the meeting at 6:29 p.m.

APPROVED and SIGNED this 27th day of June 2022.

President, IRVINE RANCH WATER DISTRICT

Secretary IRVINE RANCH WATER DISTRICT

APPROVED AS TO FORM:

Claire Hervey Collins, General Counsel Hanson Bridgett LLP

June 27, 2022 Prepared and submitted by: K. Swan Approved by: Paul A. Cook

#### CONSENT CALENDAR

#### RATIFY/APPROVE BOARD OF DIRECTORS' ATTENDANCE AT MEETINGS AND EVENTS IN 2022

#### SUMMARY:

Pursuant to Resolution 2014-38 adopted on August 25, 2014, the following events and meetings require approval by the Board of Directors:

#### Steve LaMar

| June 23<br>August 2-4 | Chapman University's Virtual Economic Forecast<br>9 <sup>th</sup> Annual Forecast Informed Reservoir Operations Workshop, La Jolla |
|-----------------------|--|
| Douglas Reinhart      |  |
| July 8                | Lake Forest Chamber of Commerce 7th Annual Legislative Luncheon  |
| John Withers          |  |
| July 8                | Lake Forest Chamber of Commerce 7th Annual Legislative Luncheon  |
| <u>RECOMMENDATIC</u>  | <u>DN:</u>   |
|                       |  |

# THAT THE BOARD RATIFY/APPROVE THE EVENTS FOR STEVEN LAMAR, DOUGLAS REINHART, AND JOHN WITHERS AS DESCRIBED HEREIN.

#### LIST OF EXHIBITS:

None.

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June 27, 2022 Prepared by: O. Mendoza / J. Davis Submitted by: R. Jacobson / C. Clary Approved by: Paul A. Cook

#### CONSENT CALENDAR

#### MAY 2022 TREASURY REPORT

#### SUMMARY:

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

- A. The May 2022 Investment Summary Report. This Investment Summary Report conforms with the 2022 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 May 31, 2022, as outlined in Exhibit "B";
- C. The Monthly Interest Rate Swap Summary as of May 31, 2022, as outlined in Exhibit "C";
- D. The May 31, 2022 Disbursement Summary of warrants 426894 through 427728, wire transfers, Workers' Compensation distributions, payroll withholding distributions, and voided checks in the total amount of \$13,677,593, as outlined in Exhibit "D";
- E. The Summary of Payroll ACH payments in the total amount of \$2,152,952 as outlined in Exhibit "E"; and
- F. The Disclosure Report of Reimbursements to Board members and staff for May 2022, detailing payments or reimbursements for individual charges of \$100 or more per transaction, as outlined in Exhibit "F".

#### FISCAL IMPACTS:

As of May 31, 2022, the book value of the investment portfolio was \$398,732,671, with a 0.72% rate of return and a market value of \$395,808,624. Based on IRWD's March 31, 2022, quarterly real estate investment rate of return of 12.41%, the weighted average return for the fixed income and real estate investments was 3.04%.

As of May 31, 2022, the outstanding principal amount of fixed and variable rate debt was \$623,195,000. The monthly weighted average all-in variable rate was 0.94%. Including IRWD's weighted average fixed rate bond issues of 3.71% and the negative cash accruals from fixed payer interest rate swaps, which hedge a portion of the District's variable rate debt, the total average debt rate was 3.16%.

Payroll ACH payments totaled \$2,152,952 and wire transfers, all other ACH payments, and checks issued for debt service, accounts payable, payroll, and water purchases for May totaled \$13,677,593.

Consent Calendar: May 2022 Treasury Report June 27, 2022 Page 2

#### ENVIRONMENTAL COMPLIANCE:

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

#### COMMITTEE STATUS:

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

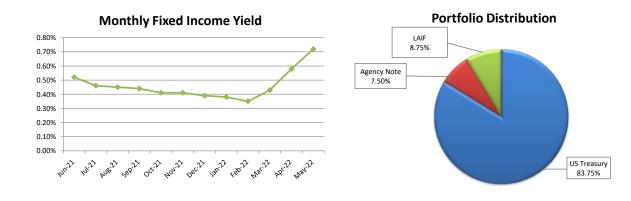
#### **RECOMMENDATION:**

THAT THE BOARD RECEIVE AND FILE THE TREASURER'S INVESTMENT SUMMARY REPORT, THE SUMMARY OF FIXED AND VARIABLE RATE DEBT, AND DISCLOSURE REPORT OF REIMBURSEMENTS TO BOARD MEMBERS AND STAFF, APPROVE THE MAY 2022 SUMMARY OF PAYROLL ACH PAYMENTS IN THE TOTAL AMOUNT OF \$2,152,952, AND APPROVE THE MAY 2022 ACCOUNTS PAYABLE DISBURSEMENT SUMMARY OF WARRANTS 426894 THROUGH 427728, WORKERS' COMPENSATION DISTRIBUTIONS, WIRE TRANSFERS, PAYROLL WITHHOLDING DISTRIBUTIONS AND VOIDED CHECKS IN THE TOTAL AMOUNT OF \$13,677,593.

#### 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 May 2022



#### **Investment Summary**

| Туре        | PAR         | Book Value  | Market Value |
|-------------|-------------|-------------|--------------|
| US Treasury | 335,000,000 | 333,681,773 | 331,397,250  |
| LAIF        | 35,000,000  | 35,000,000  | 34,606,374   |
| Agency Note | 30,000,000  | 30,050,898  | 29,805,000   |
| Grand Total | 400,000,000 | 398,732,671 | 395,808,624  |

#### **Top Issuers**

| Weighted Average Return Including Real<br>Estate Portfolio    |            | Ma        |
|---|------------|-----------|
| 3.10%   | 40.00%     |           |
| 3.00%   |            |           |
| 2.90%   |            | 28.75%    |
| 2.80%   |            |           |
| 2.70%   |            |           |
| 2.60%   |            |           |
| 2.50%   |            |           |
| 2.40%   |            |           |
| work with put and and cost work perit work cost work and part | 0-6 Months | 6-12 Mont |

#### **Maturity Distribution**



| Issuer                   | PAR         | % Portfolio |
|--------------------------|-------------|-------------|
| US Treasury              | 335,000,000 | 83.75%      |
| State of California Tsy. | 35,000,000  | 8.75%       |
| Fed Farm Credit Bank     | 15,000,000  | 3.75%       |
| Fed Home Loan Bank       | 15,000,000  | 3.75%       |
| Grand Total              | 400,000,000 | 100.00%     |

#### IRVINE RANCH WATER DISTRICT INVESTMENT SUMMARY REPORT

|          | Call     | Initial | Maturity |             | INVESTMENT      | INSTITUTION /            | PAR          | COUPON   |        | ORIGINAL        | CARRY VALUE     | MARKET VALUE <sup>(1)</sup> | UNREALIZED <sup>(2)</sup> |
|----------|----------|---------|----------|-------------|-----------------|--------------------------|--------------|----------|--------|-----------------|-----------------|-----------------------------|---------------------------|
| SETTLMT  | Schedule | Call    | Date     | Rating      | TYPE            | ISSUER                   | Amount       | DISCOUNT | YIELD  | COST            |                 | 5/31/2022                   | GAIN/(LOSS)               |
| 04/29/22 |          |         | 06/01/22 |             | LAIF            | State of California Tsy. | \$35,000,000 |          | 0.750% | \$35,000,000.00 | \$35,000,000.00 | 34,606,373.83               | (393,626.17)              |
|          |          |         |          |             |                 |                          | ,,,          |          |        | ,,              | ,,              | ,,                          | (*********                |
| 04/22/21 | NA       | NA      | 06/30/22 | Aaa/NR/AAA  | Treasury - Note | US Treasury              | 10,000,000   | 0.125%   | 0.082% | 10,005,078.13   | 10,000,339.32   | 9,993,800.00                | (6,539.32)                |
| 04/30/21 | NA       | NA      | 06/30/22 | Aaa/NR/AAA  | Treasury - Note | US Treasury              | 5,000,000    | 0.125%   | 0.082% | 5,002,539.06    | 5,000,172.85    | 4,996,900.00                | (3,272.85)                |
| 05/28/21 | NA       | NA      | 06/30/22 | Aaa/NR/AAA  | Treasury - Note | US Treasury              | 5,000,000    | 0.125%   | 0.064% | 5,003,320.31    | 5,000,241.93    | 4,996,900.00                | (3,341.93)                |
| 05/20/21 | NA       | NA      | 06/30/22 | Aaa/NR/AAA  | Treasury - Note | US Treasury              | 5,000,000    | 1.750%   | 0.065% | 5,093,750.00    | 5,006,696.43    | 5,003,400.00                | (3,296.43)                |
| 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    | 5,000,036.18    | 5,003,800.00                | 3,763.82                  |
| 12/23/21 | NA       | NA      | 07/31/22 | Aaa/AA/AAA  | Treasury - Note | US Treasury              | 10,000,000   | 0.125%   | 0.157% | 9,998,046.88    | 9,999,467.33    | 9,985,400.00                | (14,067.33)               |
| 04/28/21 | NA       | NA      | 08/31/22 | Aaa/NR/NR   | Treasury - Note | US Treasury              | 5,000,000    | 0.125%   | 0.102% | 5,001,562.50    | 5,000,290.18    | 4,987,450.00                | (12,840.18)               |
| 12/15/21 | NA       | NA      | 08/31/22 | Aaa/AA/AAA  | Treasury - Note | US Treasury              | 5,000,000    | 1.875%   | 0.188% | 5,059,570.31    | 5,020,930.11    | 5,008,700.00                | (12,230.11)               |
| 01/13/22 | NA       | NA      | 08/31/22 | Aaa/AA/AAA  | Treasury - Note | US Treasury              | 5,000,000    | 0.125%   | 0.312% | 4,994,140.63    | 4,997,681.73    | 4,987,450.00                | (10,231.73)               |
| 02/15/22 | NA       | NA      | 08/31/22 | Aaa/AA/AAA  | Treasury - Note | US Treasury              | 5,000,000    | 0.125%   | 0.776% | 4,982,617.19    | 4,991,970.38    | 4,987,450.00                | (4,520.38)                |
| 02/15/22 | NA       | NA      | 08/31/22 | Aaa/AA/AAA  | Treasury - Note | US Treasury              | 5,000,000    | 0.125%   | 0.769% | 4,982,812.50    | 4,992,060.60    | 4,987,450.00                | (4,610.60)                |
| 04/28/21 | NA       | NA      | 09/09/22 | Aaa/AA+/NR  | FHLB - Note     | Fed Home Loan Bank       | 5,000,000    | 2.000%   | 0.112% | 5,128,632.30    | 5,025,778.02    | 5,010,100.00                | (15,678.02)               |
| 12/03/21 | NA       | NA      | 09/30/22 | Aaa/AA/AAA  | Treasury - Note | US Treasury              | 5,000,000    | 0.125%   | 0.210% | 4,996,484.38    | 4,998,586.74    | 4,979,700.00                | (18,886.74)               |
| 01/10/22 | NA       | NA      | 09/30/22 | Aaa/AA/AAA  | Treasury - Note | US Treasury              | 5,000,000    | 0.125%   | 0.332% | 4,992,578.13    | 4,996,585.38    | 4,979,700.00                | (16,885.38)               |
| 02/28/22 | NA       | NA      | 09/30/22 | Aaa/AA/AAA  | Treasury - Note | US Treasury              | 5,000,000    | 0.125%   | 0.742% | 4,982,031.25    | 4,989,840.10    | 4,979,700.00                | (10,140.10)               |
| 03/23/22 | NA       | NA      | 09/30/22 | Aaa/AA/AAA  | Treasury - Note | US Treasury              | 10,000,000   | 0.125%   | 0.937% | 9,957,812.50    | 9,973,273.89    | 9,959,400.00                | (13,873.89)               |
| 04/22/21 | NA       | NA      | 10/31/22 | Aaa/NR/AAA  | Treasury - Note | US Treasury              | 10,000,000   | 0.125%   | 0.110% | 10,002,343.75   | 10,003,373.97   | 9,944,500.00                | (58,873.97)               |
| 12/23/21 | NA       | NA      | 10/31/22 | Aaa/AA/AAA  | Treasury - Note | US Treasury              | 10,000,000   | 0.125%   | 0.253% | 9,989,062.50    | 9,994,671.47    | 9,944,500.00                | (50,171.47)               |
| 04/11/22 | NA       | NA      | 10/31/22 | Aaa/AA/AAA  | Treasury - Note | US Treasury              | 10,000,000   | 0.125%   | 1.235% | 9,939,062.50    | 9,954,371.92    | 9,944,500.00                | (9,871.92)                |
| 05/20/21 | NA       | NA      | 11/30/22 | Aaa/NR/AAA  | Treasury - Note | US Treasury              | 5,000,000    | 0.125%   | 0.103% | 5,001,647.15    | 5,000,536.28    | 4,964,250.00                | (36,286.28)               |
| 12/20/21 | NA       | NA      | 11/30/22 | Aaa/NR/AAA  | Treasury - Note | US Treasury              | 10,000,000   | 0.125%   | 0.266% | 9,986,718.75    | 9,992,993.66    | 9,928,500.00                | (64,493.66)               |
| 01/07/22 | NA       | NA      | 11/30/22 | Aaa/NR/AAA  | Treasury - Note | US Treasury              | 5,000,000    | 0.125%   | 0.401% | 4,987,695.31    | 4,993,151.52    | 4,964,250.00                | (28,901.52)               |
| 10/15/21 | NA       | NA      | 12/15/22 | Aaa/AA/AAA  | Treasury - Note | US Treasury              | 10,000,000   | 1.625%   | 0.140% | 10,173,046.88   | 10,080,024.03   | 10,003,100.00               | (76,924.03)               |
| 11/30/21 | NA       | NA      | 12/31/22 | Aaa/AA/AAA  | Treasury - Note | US Treasury              | 10,000,000   | 0.125%   | 0.216% | 9,990,234.38    | 9,994,747.28    | 9,909,800.00                | (84,947.28)               |
| 09/30/21 | NA       | NA      | 01/31/23 | Aaa/NR/AAA  | Treasury - Note | US Treasury              | 5,000,000    | 0.125%   | 0.143% | 4,998,828.13    | 4,999,414.07    | 4,944,350.00                | (55,064.07)               |
| 12/30/21 | NA       | NA      | 01/31/23 | Aaa/NR/AAA  | Treasury - Note | US Treasury              | 10,000,000   | 0.125%   | 0.417% | 9,968,359.38    | 9,980,553.37    | 9,888,700.00                | (91,853.37)               |
| 02/28/22 | NA       | NA      | 01/31/23 | Aaa/AA/AAA  | Treasury - Note | US Treasury              | 5,000,000    | 0.125%   | 1.070% | 4,956,640.63    | 4,968,606.27    | 4,944,350.00                | (24,256.27)               |
| 11/18/21 | NA       | NA      | 02/10/23 | Aaa/AA+/AAA | FFCB - Note     | Fed Farm Credit Bank     | 10,000,000   | 0.160%   | 0.285% | 9,984,690.00    | 9,991,339.11    | 9,894,000.00                | (97,339.11)               |
| 10/07/21 | NA       | NA      | 02/28/23 | Aaa/AA/AAA  | Treasury - Note | US Treasury              | 10,000,000   | 0.125%   | 0.181% | 9,992,187.50    | 9,995,825.15    | 9,867,200.00                | (128,625.15)              |
| 09/09/21 | NA       | NA      | 03/31/23 | Aaa/AA/AAA  | Treasury - Note | US Treasury              | 10,000,000   | 0.125%   | 0.153% | 9,995,703.13    | 9,997,707.83    | 9,847,300.00                | (150,407.83)              |
| 11/02/21 | NA       | NA      | 03/31/23 | Aaa/AA/AAA  | Treasury - Note | US Treasury              | 5,000,000    | 0.125%   | 0.308% | 4,987,109.38    | 4,992,401.05    | 4,923,650.00                | (68,751.05)               |
| 09/30/21 | NA       | NA      | 04/30/23 | Aaa/AA/AAA  | Treasury - Note | US Treasury              | 10,000,000   | 0.125%   | 0.202% | 9,987,890.63    | 9,993,011.40    | 9,822,300.00                | (170,711.40)              |
| 10/19/21 | NA       | NA      | 04/30/23 | Aaa/AA/AAA  | Treasury - Note | US Treasury              | 10,000,000   | 0.125%   | 0.307% | 9,972,265.63    | 9,983,448.84    | 9,822,300.00                | (161,148.84)              |
| 11/16/21 | NA       | NA      | 05/31/23 | Aaa/AA/AAA  | Treasury - Note | US Treasury              | 10,000,000   | 0.125%   | 0.385% | 9,960,156.25    | 9,974,147.73    | 9,802,700.00                | (171,447.73)              |
| 12/29/21 | NA       | NA      | 06/30/23 | Aaa/AA/AAA  | Treasury - Note | US Treasury              | 5,000,000    | 0.125%   | 0.563% | 4,967,187.50    | 4,976,408.53    | 4,891,000.00                | (85,408.53)               |
| 04/21/22 | NA       | NA      | 06/30/23 | Aaa/AA/AAA  | Treasury - Note | US Treasury              | 10,000,000   | 1.375%   | 2.107% | 9,914,062.50    | 9,922,162.36    | 9,915,200.00                | (6,962.36)                |
| 01/11/22 | NA       | NA      | 07/31/23 | Aaa/AA/AAA  | Treasury - Note | US Treasury              | 5,000,000    | 0.125%   | 0.710% | 4,954,882.81    | 4,966,122.25    | 4,881,250.00                | (84,872.25)               |
| 02/28/22 | NA       | NA      | 07/31/23 | Aaa/AA/AAA  | Treasury - Note | US Treasury              | 5,000,000    | 0.125%   | 1.408% | 4,909,960.94    | 4,926,126.25    | 4,881,250.00                | (44,876.25)               |
| 01/13/22 | NA       | NA      | 08/15/23 | Aaa/AA/AAA  | Treasury - Note | US Treasury              | 10,000,000   | 0.125%   | 0.769% | 9,898,437.50    | 9,922,819.52    | 9,753,900.00                | (168,919.52)              |
| 02/15/22 | NA       | NA      | 08/31/23 | Aaa/AA/AAA  | Treasury - Note | US Treasury              | 5,000,000    | 0.125%   | 1.473% | 4,898,046.88    | 4,917,276.47    | 4,871,300.00                | (45,976.47)               |
| 11/26/21 | NA       | NA      | 09/30/23 | Aaa/AA/AAA  | Treasury - Note | US Treasury              | 10,000,000   | 0.250%   | 0.572% | 9,941,015.63    | 9,957,405.05    | 9,739,800.00                | (217,605.05)              |
| 03/31/22 | NA       | NA      | 10/31/23 | Aaa/AA/AAA  | Treasury - Note | US Treasury              | 5,000,000    | 1.625%   | 2.155% | 4,958,984.38    | 4,963,376.38    | 4,952,550.00                | (10,826.38)               |
| 04/21/22 | NA       | NA      | 10/31/23 | Aaa/AA/AAA  | Treasury - Note | US Treasury              | 5,000,000    | 1.625%   | 2.380% | 4,943,750.00    | 4,947,883.06    | 4,952,550.00                | 4,666.94                  |
| 03/31/22 | NA       | NA      | 11/30/23 | Aaa/AA/AAA  | Treasury - Note | US Treasury              | 5,000,000    | 0.500%   | 2.210% | 4,860,742.19    | 4,874,919.50    | 4,864,650.00                | (10,269.50)               |
| 04/21/22 | NA       | NA      | 11/30/23 | Aaa/AA/AAA  | Treasury - Note | US Treasury              | 5,000,000    | 0.500%   | 2.462% | 4,846,093.75    | 4,856,825.31    | 4,864,650.00                | 7,824.69                  |
| 04/14/22 | NA       | NA      | 12/15/23 | Aaa/AA/AAA  | Treasury - Note | US Treasury              | 5,000,000    | 0.125%   | 2.213% | 4,829,687.50    | 4,843,089.14    | 4,833,400.00                | (9,689.14)                |
| 03/22/22 | NA       | NA      | 01/31/24 | Aaa/AA/AAA  | Treasury - Note | US Treasury              | 5,000,000    | 0.875%   | 2.013% | 4,896,484.38    | 4,907,292.63    | 4,875,000.00                | (32,292.63)               |
| 03/22/22 | NA       | NA      | 02/29/24 | Aaa/AA/AAA  | Treasury - Note | US Treasury              | 5,000,000    | 1.500%   | 2.020% | 4,950,781.25    | 4,955,710.07    | 4,921,100.00                | (34,610.07)               |
| 03/10/22 | NA       | NA      | 03/08/24 | Aaa/AA+/NR  | FHLB - Note     | Fed Home Loan Bank       | 10,000,000   | 1.875%   | 1.680% | 10,038,080.00   | 10,033,744.42   | 9,897,100.00                | (136,644.42)              |
| 04/21/22 | NA       | NA      | 04/30/24 | Aaa/AA/AAA  | Treasury - Note | US Treasury              | 10,000,000   | 2.000%   | 2.600% | 9,882,421.88    | 9,888,936.34    | 9,908,600.00                | 19,663.66                 |
| 05/31/22 | NA       | NA      | 05/31/24 | Aaa/AA/AAA  | Treasury - Note | US Treasury              | 10,000,000   | 2.500%   | 2.560% | 9,988,281.25    | 9,988,297.28    | 9,991,400.00                | 3,102.72                  |
|          |          |         |          |             |                 | A                        | •            |          |        |                 |                 |                             |                           |

#### IRVINE RANCH WATER DISTRICT INVESTMENT SUMMARY REPORT

|  |                    |                  |        |                          | 05/31/22                |               |   |   |                         |  |  |
|--|--------------------|------------------|--------|--------------------------|-------------------------|---------------|---|---|-------------------------|--|--|
| Call<br>SETTLMT Schedu   | Initial<br>le Call | Maturity<br>Date | Rating | INVESTMENT<br>TYPE       | INSTITUTION /<br>ISSUER | PAR<br>Amount | COUPON<br>DISCOUNT YIELD                              | ORIGINAL<br>COST                              | CARRY VALUE             | MARKET VALUE <sup>(1)</sup><br>5/31/2022 | UNREALIZED <sup>(2)</sup><br>GAIN/(LOSS) |
| SUB-TOTAL  |                    |                  |        |                          |                         | \$400,000,000 | _   | \$398,734,268.29                              | \$398,732,670.67        | \$395,808,623.83                         | (\$2,924,046.84)                         |
| TOTAL INVESTMEN  | <u>rs</u>          |                  |        |                          |                         | \$400,000,000 | _   | \$398,734,268.29                              | \$398,732,670.67        | \$395,808,623.83                         | (\$2,924,046.84)                         |
|  |                    |                  |        | Petty Cash<br>Ck Balance | Bank of America         | ECF           | R 0.19%   | 3,400.00<br>10,450,181.68<br>\$409,187,849.97 |                         |  |  |
| <sup>(1)</sup> LAIF market value is as<br>Security market values are |                    |                  |        |                          |                         |               | Outstanding Variable Rate<br>Net Outstanding Variable |   | llion fixed-payer swaps | 5)                                       | \$237,300,000<br>\$177,300,000           |

| Security market values are determined using Bank of New York ("Trading Prices"), Bloomberg                     | Net Outstanding Variable  | Rate Debt (Less \$60 millio | on fixed-payer swaps | )                          | \$177,300,000 |   |
|--|---------------------------|-----------------------------|----------------------|----------------------------|---------------|---|
| and/or broker dealer pricing.  | Investment Balance:       |                             |                      |                            | \$409,187,850 | i |
| (2) Gain (loss) calculated against carry value using the trading value provided by Bank of New York/or Brokers | Investment to Variable Ra | te Debt Ratio:              |                      |                            | 231%          |   |
| <sup>(3)</sup> Real estate rate of return is based on most recent quarter end return                           | Portfolio - Average Numb  | er of Days To Maturity      |                      |                            | 268           |   |
|  |                           |                             | Investment           | Real Estate <sup>(3)</sup> | Weighted Avg. |   |
|  |                           |                             | Portfolio            | Portfolio                  | Return        | ı |
|  |                           | May                         | 0.72%                | 12.41%                     | 3.04%         | ı |
| This Investment Summary Report is in conformity with the 2022 Investment Policy                                |                           | April                       | 0.58%                | 12.41%                     | 2.96%         |   |
| and provides sufficient liquidity to meet the next six months estimated expenditures.                          |                           | Change                      | 0.14%                |                            | 0.08%         | ı |
|  |                           |                             |                      |                            |               |   |

#### IRVINE RANCH WATER DISTRICT SUMMARY OF MATURITIES

#### 05/31/22

| DATE                    | TOTAL         | %       | LAIF         | Agency Notes | Agency Discount<br>Notes | Municipal Bonds | US Treasury   |
|-------------------------|---------------|---------|--------------|--------------|--------------------------|-----------------|---------------|
|                         |               |         |              |              |                          |                 |               |
| 05/22                   | 35,000,000    | 8.75%   | 35,000,000   |              |                          |                 |               |
| 06/22                   | 25,000,000    | 6.25%   |              |              |                          |                 | 25,000,000    |
| 07/22                   | 15,000,000    | 3.75%   |              | 5,000,000    |                          |                 | 10,000,000    |
| 08/22                   | 25,000,000    | 6.25%   |              |              |                          |                 | 25,000,000    |
| 09/22                   | 30,000,000    | 7.50%   |              | 5,000,000    |                          |                 | 25,000,000    |
| 10/22                   | 30,000,000    | 7.50%   |              |              |                          |                 | 30,000,000    |
| 11/22                   | 20,000,000    | 5.00%   |              |              |                          |                 | 20,000,000    |
| 12/22                   | 20,000,000    | 5.00%   |              |              |                          |                 | 20,000,000    |
| 1/23                    | 20,000,000    | 5.00%   |              |              |                          |                 | 20,000,000    |
| 2/23                    | 20,000,000    | 5.00%   |              | 10,000,000   |                          |                 | 10,000,000    |
| 3/23                    | 15,000,000    | 3.75%   |              |              |                          |                 | 15,000,000    |
| 4/23                    | 20,000,000    | 5.00%   |              |              |                          |                 | 20,000,000    |
| SUB-TOTAL               | \$275,000,000 | 68.75%  | \$35,000,000 | \$20,000,000 |                          |                 | \$220,000,000 |
|                         |               |         |              |              |                          |                 |               |
| 13 Months - 3 YEARS     |               |         |              |              |                          |                 |               |
| 05/01/2023 - 07/31/2023 | \$35,000,000  | 8.75%   |              |              |                          |                 | 35,000,000    |
| 08/01/2023 - 10/31/2023 | \$35,000,000  | 8.75%   |              |              |                          |                 | 35,000,000    |
| 11/01/2023 - 01/31/2024 | \$20,000,000  | 5.00%   |              |              |                          |                 | 20,000,000    |
| 02/01/2024 - 04/30/2024 | \$25,000,000  | 6.25%   |              | 10,000,000   |                          |                 | 15,000,000    |
| 5/01/2024 +             | \$10,000,000  | 2.50%   |              |              |                          |                 | 10,000,000    |
|                         |               |         |              |              |                          |                 |               |
|                         |               |         |              |              |                          |                 |               |
|                         |               |         |              |              |                          |                 |               |
|                         |               |         |              |              |                          |                 |               |
|                         |               |         |              |              |                          |                 |               |
| TOTALS                  | \$400,000,000 | 100.00% | \$35,000,000 | 30,000,000   | -                        |                 | 335,000,000   |

% OF PORTFOLIO

7.50%

#### Irvine Ranch Water District Summary of Real Estate - Income Producing Investments 3/31/2022

|  | ACQUISITION<br>DATE | PROPERTY<br>TYPE | OWNERSHIP<br>INTEREST | ORIGINAL<br>COST | MA | RKET VALUE<br>6/30/2021 | ANNUALIZED<br>RATE OF RETURN<br>QUARTER ENDED<br>3/31/2022 |
|--|---------------------|------------------|-----------------------|------------------|----|-------------------------|--|
| Sycamore Canyon                                  | Dec-92              | Apartments       | Fee Simple            | \$<br>43,550,810 | \$ | 170,000,000             | 22.20%   |
| Wood Canyon Villas                               | Jun-91              | Apartments       | Limited Partner       | \$<br>6,000,000  | \$ | 32,258,924              | 8.51%  |
| ITC (230 Commerce)                               | Jul-03              | Office Building  | Fee Simple            | \$<br>5,739,845  | \$ | 12,000,000              | 9.95%  |
| Waterworks Business Pk.                          | Nov-08              | Research & Dev.  | Fee Simple            | \$<br>8,630,577  | \$ | 11,600,000              | 8.82%  |
| Sand Canyon Professional Center - Medical Office | Jul-12              | Medical Office   | Fee Simple            | \$<br>8,648,594  | \$ | 11,900,000              | 9.64%  |
| Sand Canyon Professional Center - General Office | Sep-20              | Office Building  | Fee Simple            | \$<br>25,985,968 | \$ | 33,250,000              | -0.44%   |
| Total - Income Properties                        |                     |                  |                       | \$<br>98,555,794 | \$ | 271,008,924             | 12.41%   |

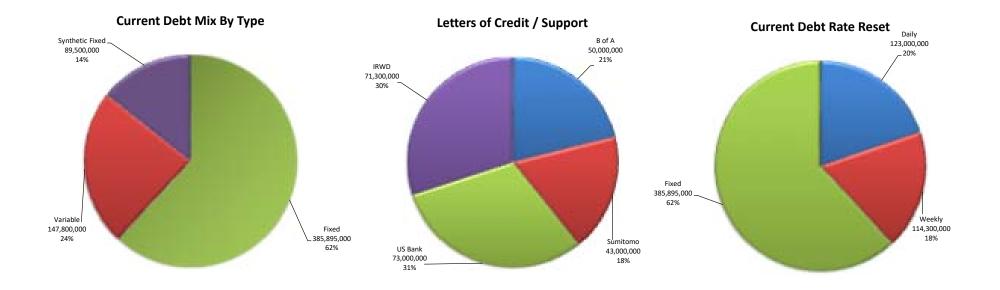
#### IRVINE RANCH WATER DISTRICT INVESTMENT SUMMARY REPORT INVESTMENT ACTIVITY May-22

#### MATURITIES/SALES/CALLS

#### PURCHASES

| DATE      | SECURITY TYPE   | PAR          | YIELD | Settlement<br>Date | Maturity Date | SECURITY TYPE   | PAR          | YIELD TO<br>MATURITY |
|-----------|-----------------|--------------|-------|--------------------|---------------|-----------------|--------------|----------------------|
| 5/31/2022 | Treasury - Note | \$10,000,000 | 0.06% | 5/31/2022          | 5/31/2024     | Treasury - Note | \$10,000,000 | 2.56%                |
|           |                 |              |       |                    |               |                 |              |                      |
|           |                 |              |       |                    |               |                 |              |                      |
|           |                 |              |       |                    |               |                 |              |                      |
|           |                 |              |       |                    |               |                 |              |                      |
|           |                 |              |       |                    |               |                 |              |                      |
|           |                 |              |       |                    |               |                 |              |                      |
|           |                 |              |       |                    |               |                 |              |                      |
|           |                 |              |       |                    |               |                 |              |                      |
|           |                 |              |       |                    |               |                 |              |                      |
|           |                 |              |       |                    |               |                 |              |                      |

## Exhibit "B" Irvine Ranch Water District Summary of Fixed and Variable Rate Debt May 2022



#### **Outstanding Par by Series**

| Series                          | Issue Date | Maturity Date | Remaining<br>Principal | Percent | Letter of<br>Credit/Support | Rmkt Agent | Mode     | Reset  |
|---------------------------------|------------|---------------|------------------------|---------|-----------------------------|------------|----------|--------|
| Series 1993                     | 05/19/93   | 04/01/33      | \$23,000,000           | 3.69%   | US Bank                     | BAML       | Variable | Daily  |
| Series 2008-A Refunding         | 04/24/08   | 07/01/35      | \$43,000,000           | 6.90%   | Sumitomo                    | BAML       | Variable | Weekly |
| Series 2011-A-1 Refunding       | 04/15/11   | 10/01/37      | \$42,780,000           | 6.86%   | IRWD                        | Goldman    | Variable | Weekly |
| Series 2011-A-2 Refunding       | 04/15/11   | 10/01/37      | \$28,520,000           | 4.58%   | IRWD                        | Goldman    | Variable | Weekly |
| Series 2009 - A                 | 06/04/09   | 10/01/41      | \$50,000,000           | 8.02%   | US Bank                     | US Bank    | Variable | Daily  |
| Series 2009 - B                 | 06/04/09   | 10/01/41      | \$50,000,000           | 8.02%   | B of A                      | Goldman    | Variable | Daily  |
| 2016 COPS                       | 09/01/16   | 03/01/46      | \$109,650,000          | 17.59%  | N/A                         | N/A        | Fixed    | Fixed  |
| 2010 Build America Taxable Bond | 12/16/10   | 05/01/40      | \$175,000,000          | 28.08%  | N/A                         | N/A        | Fixed    | Fixed  |
| Series 2016                     | 10/12/16   | 02/01/46      | \$101,245,000          | 16.25%  | N/A                         | N/A        | Fixed    | Fixed  |
| Total                           |            |               | \$623,195,000          | 100.00% |                             |            |          |        |

#### **IRVINE RANCH WATER DISTRICT**

#### SUMMARY OF FIXED & VARIABLE RATE DEBT

#### May-22

ITN Daily Weekly

| (TOOLA)                   |            |                  |                           |                 |                        |                        |                     |                                |          |      |            |           |         |                      |         |                    |               |       |             |                |            |
|---------------------------|------------|------------------|---------------------------|-----------------|------------------------|------------------------|---------------------|--------------------------------|----------|------|------------|-----------|---------|----------------------|---------|--------------------|---------------|-------|-------------|----------------|------------|
|                           | GE         | ENERAL BO        | OND INFORMA               | TION            |                        |                        |                     |                                |          | LETI | TER OF CRE | DIT INFOR | RMATION |                      |         |                    |               | TR    | USTEE INFOR | MATION         |            |
| VARIABLE RATE ISSUES      | Issue Date | Maturity<br>Date | Principal<br>Payment Date | Payment<br>Date | Original Par<br>Amount | Remaining<br>Principal | Letter of<br>Credit | Reimbursment<br>Agreement Date |          |      | MOODYS     | S&P       | FITCH   | LOC Stated<br>Amount | LOC Fee | Annual LOC<br>Cost | Rmkt<br>Agent | Reset | Rmkt Fees   | Annual<br>Cost | Trustee    |
| SERIES 1993               | 05/19/93   | 04/01/33         | Apr 1                     | 5th Bus. Day    | \$38,300,000           | \$23,000,000           | US BANK             | 05/07/15                       | 05/01/25 |      | Aa3/VMIG1  | AA-/A-1+  | N/R     | \$23,310,027         | 0.3000% | \$69,930           | BAML          | DAILY | 0.10%       | \$23,000       | BANK OF N  |
| SERIES 2008-A Refunding   | 04/24/08   | 07/01/35         | Jul 1                     | 5th Bus. Day    | \$60,215,000           | \$43,000,000           | SUMITOMO            | 04/01/11                       | 05/28/25 |      | A1/P-1     | A/A-1     | A/F1    | \$43,636,164         | 0.3150% | \$137,454          | BAML          | WED   | 0.07%       | \$30,100       | BANK OF NY |
| SERIES 2011-A-1 Refunding | 04/15/11   | 10/01/37         | Oct 1                     | 1st Bus. Day    | \$60,545,000           | \$42,780,000           | N/A                 | N/A                            | N/A      |      | Aa1/VMIG1  | A-1+      | AAA/F1+ | N/A                  | N/A     | N/A                | Goldman       | WED   | 0.13%       | \$53,475       | BANK OF NY |
| SERIES 2011-A-2 Refunding | 04/15/11   | 10/01/37         | Oct 1                     | 1st Bus. Day    | \$40,370,000           | \$28,520,000           | N/A                 | N/A                            | N/A      |      | Aa1/VMIG1  | A-1+      | AAA/F1+ | N/A                  | N/A     | N/A                | Goldman       | WED   | 0.13%       | \$35,650       | BANK OF NY |
| SERIES 2009 - A           | 06/04/09   | 10/01/41         | Oct 1                     | 1st Bus. Day    | \$75,000,000           | \$50,000,000           | US BANK             | 04/01/11                       | 05/01/25 |      | Aa2/VMIG 1 | AA-/A-1+  | AA/F1+  | \$50,558,904         | 0.3000% | \$151,677          | US Bank       | DAILY | 0.07%       | \$35,000       | US BANK    |
| SERIES 2009 - B           | 06/04/09   | 10/01/41         | Oct 1                     | 1st Bus. Day    | \$75,000,000           | \$50,000,000           | B of A              | 04/01/11                       | 04/21/25 |      | Aa2/VMIG 1 | A/A-1     | A1/F1+  | \$50,558,904         | 0.2800% | \$141,565          | Goldman       | DAILY | 0.10%       | \$50,000       | US BANK    |
|                           |            |                  |                           |                 |                        |                        |                     |                                |          |      |            |           |         |                      |         |                    |               |       |             |                |            |

\$349,430,000 \$237,300,000 SUB-TOTAL VARIABLE RATE DEBT

\$168,064,000 0.2979% \$500,626 (Wt. Avg) 0.10% \$227,225 (Wt. Avg)

| FIXED RATE ISSUES                      |          |          |            |          |               |               |     |     |     |     |     |     |     |     |     |     |     |     |     |            |
|--|----------|----------|------------|----------|---------------|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------|
| 2010 GO Build America<br>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 | US BANK    |
| 2016 COPS                              | 09/01/16 | 03/01/46 | Mar 1      | Mar/Sept | \$116,745,000 | \$109,650,000 | N/A | N/A | N/A | NR  | AAA | AAA | N/A | US BANK    |
| SERIES 2016                            | 10/12/16 | 02/01/46 | Feb 1      | Feb/Aug  | \$103,400,000 | \$101,245,000 | N/A | N/A | N/A | NR  | AAA | AAA | N/A | BANK OF NY |

#### \$395,145,000 \$385,895,000 SUB-TOTAL FIXED RATE DEBT

\$744,575,000 \$623,195,000 TOTAL- FIXED & VARIABLE RATE DEBT

| Remarke | ting Agents |     |       | GO VS COP's |     |
|---------|-------------|-----|-------|-------------|-----|
| Goldman | 121,300,000 | 51% | GO:   | 513,545,000 | 82% |
| BAML    | 66,000,000  | 28% | COPS: | 109,650,000 | 18% |
| US Bank | 50,000,000  | 21% | Total | 623,195,000 |     |
|         | 237,300,000 |     |       |             |     |

| LOCE            | Banks       | Breakdown Betw    | een Variable & Fixed R | ate Mode |
|-----------------|-------------|-------------------|------------------------|----------|
|                 |             | Daily Issues      | 123,000,000            | 20%      |
| SUMITOMO        | 43,000,000  | Weekly Issues     | 43,000,000             | 7%       |
| BANK OF AMERICA | 50,000,000  | ITN Issues        | 71,300,000             | 11%      |
| US BANK         | 73,000,000  | Sub-Total         | 237,300,000            |          |
|                 | 166,000,000 |                   |                        |          |
|                 |             | Fixed Rate Issues | \$385,895,000          | 62%      |
|                 |             | Sub-Total - Fixed | 385,895,000            |          |
|                 |             | TOTAL DEBT        |                        |          |
|                 |             | FIXED & VAR.      | 623,195,000            | 100%     |

#### SUMMARY OF DEBT RATES May-22

| Rmkt Agent         | GOLDMAN    | GOLDMAN     | GOLDMAN     |            | L LYNCH    | US BANK    |
|--------------------|------------|-------------|-------------|------------|------------|------------|
| Mode               | DAILY      | WEEKLY      | WEEKLY      | DAILY      | WEEKLY     | DAILY      |
| Bond Issue         | 2009 - B   | 2011 A-1    | 2011 A-2    | 1993       | 2008-A     | 2009-A     |
| Par Amount         | 50,000,000 | 42,780,000  | 28,520,000  | 23,000,000 | 43,000,000 | 50,000,000 |
| LOC Bank           | BOFA       | (SIFMA + 6) | (SIFMA + 6) | US BANK    | Sumitomo   | US BANK    |
| Reset              |            | Wednesday   | Wednesday   |            | Wednesday  |            |
|                    |            | /           |             |            |            |            |
| 5/1/2022           | 0.25%      | 0.50%       | 0.50%       | 0.27%      | 0.40%      | 0.32%      |
| 5/2/2022           | 0.22%      | 0.50%       | 0.50%       | 0.25%      | 0.40%      | 0.27%      |
| 5/3/2022           | 0.22%      | 0.50%       | 0.50%       | 0.23%      | 0.40%      | 0.25%      |
| 5/4/2022           | 0.22%      | 0.50%       | 0.50%       | 0.23%      | 0.40%      | 0.25%      |
| 5/5/2022           | 0.38%      | 0.66%       | 0.66%       | 0.41%      | 0.57%      | 0.32%      |
| 5/6/2022           | 0.38%      | 0.66%       | 0.66%       | 0.39%      | 0.57%      | 0.39%      |
| 5/7/2022           | 0.38%      | 0.66%       | 0.66%       | 0.39%      | 0.57%      | 0.39%      |
| 5/8/2022           | 0.38%      | 0.66%       | 0.66%       | 0.39%      | 0.57%      | 0.39%      |
| 5/9/2022           | 0.39%      | 0.66%       | 0.66%       | 0.39%      | 0.57%      | 0.40%      |
| 5/10/2022          | 0.38%      | 0.66%       | 0.66%       | 0.41%      | 0.57%      | 0.43%      |
| 5/11/2022          | 0.60%      | 0.66%       | 0.66%       | 0.44%      | 0.57%      | 0.51%      |
| 5/12/2022          | 0.65%      | 0.82%       | 0.82%       | 0.65%      | 0.70%      | 0.62%      |
| 5/13/2022          | 0.75%      | 0.82%       | 0.82%       | 0.74%      | 0.70%      | 0.75%      |
| 5/14/2022          | 0.75%      | 0.82%       | 0.82%       | 0.74%      | 0.70%      | 0.75%      |
| 5/15/2022          | 0.75%      | 0.82%       | 0.82%       | 0.74%      | 0.70%      | 0.75%      |
| 5/16/2022          | 0.73%      | 0.82%       | 0.82%       | 0.74%      | 0.70%      | 0.76%      |
| 5/17/2022          | 0.67%      | 0.82%       | 0.82%       | 0.73%      | 0.70%      | 0.74%      |
| 5/18/2022          | 0.66%      | 0.82%       | 0.82%       | 0.71%      | 0.70%      | 0.71%      |
| 5/19/2022          | 0.65%      | 0.88%       | 0.88%       | 0.66%      | 0.78%      | 0.72%      |
| 5/20/2022          | 0.64%      | 0.88%       | 0.88%       | 0.64%      | 0.78%      | 0.68%      |
| 5/21/2022          | 0.64%      | 0.88%       | 0.88%       | 0.64%      | 0.78%      | 0.68%      |
| 5/22/2022          | 0.64%      | 0.88%       | 0.88%       | 0.64%      | 0.78%      | 0.68%      |
| 5/23/2022          | 0.60%      | 0.88%       | 0.88%       | 0.62%      | 0.78%      | 0.67%      |
| 5/24/2022          | 0.60%      | 0.88%       | 0.88%       | 0.60%      | 0.78%      | 0.66%      |
| 5/25/2022          | 0.59%      | 0.88%       | 0.88%       | 0.59%      | 0.78%      | 0.65%      |
| 5/26/2022          | 0.60%      | 0.85%       | 0.85%       | 0.57%      | 0.72%      | 0.64%      |
| 5/27/2022          | 0.57%      | 0.85%       | 0.85%       | 0.59%      | 0.72%      | 0.63%      |
| 5/28/2022          | 0.57%      | 0.85%       | 0.85%       | 0.59%      | 0.72%      | 0.63%      |
| 5/29/2022          | 0.57%      | 0.85%       | 0.85%       | 0.59%      | 0.72%      | 0.63%      |
| 5/30/2022          | 0.57%      | 0.85%       | 0.85%       | 0.59%      | 0.72%      | 0.63%      |
| 5/31/2022          | 0.52%      | 0.85%       | 0.85%       | 0.49%      | 0.72%      | 0.62%      |
| Avg Interest Rates | 0.53%      | 0.77%       | 0.77%       | 0.54%      | 0.65%      | 0.57%      |
| Rmkt Fee           | 0.10%      | 0.13%       | 0.13%       | 0.10%      | 0.07%      | 0.07%      |
| LOC Fee            | 0.28%      |             |             | 0.30%      | 0.32%      | 0.30%      |
| All-In Rate        | 0.91%      | 0.90%       | 0.90%       | 0.94%      | 1.04%      | 0.94%      |
| Par Amount         | 92         | 2,780,000   | 28,520,000  | 66,00      | 0,000      | 50,000,000 |

|                    | Percent of                  | Par               | Weighted All-In |     | Base Rate |
|--------------------|-----------------------------|-------------------|-----------------|-----|-----------|
| Interest Rate Mode | Total Variable Rate<br>Debt | Outstanding       | Average Rate    |     | Average   |
| Daily              | 51.83%                      | 123,000,000       | 0.93%           |     | 0.55%     |
| Weekly             | 48.17%                      | 114,300,000       | 0.95%           |     | 0.73%     |
|                    | 100.00%                     | \$<br>237,300,000 | 0.94%           |     | 0.63%     |
| Fixed              |                             |                   |                 |     |           |
| COPS 2016          | 28.41%                      | 109,650,000       | 2.90%           |     |           |
| BABS 2010          | 45.35%                      | 175,000,000       | 4.44%           | (1) |           |
| SERIES 2016        | 26.24%                      | 101,245,000       | 3.32%           |     |           |
|                    | 100.00%                     | \$<br>385,895,000 | 3.71%           |     |           |

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

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# Exhibit "C" Irvine Ranch Water District Interest Rate Swap Summary May 2022

| Prior Mo.              | Current Mo.   | 12-Mo Ava  | T   |   |   |   |   |   |  |  |  |  |   |
|------------------------|---|--|---|---|---|---|---|---|--|--|--|--|---|
| % 0.60%                | 0.94%   | 0.24%  | 1   |   |   |   |   |   |  |  |  |  |   |
|                        | Curre   | nt Fiscal Yea  | ar Active Swaps   |   |   |   |   | Cash  | Flow   | (Since 3/07)   | Mark to  | Market   |   |
| Maturity<br>Date       | Years to<br>Maturity  | Counter<br>Party   | Notional Amt  | Туре  | Base<br>Index   | Fixed Rate  | Prior Month   | Current<br>Month  | Fiscal YTD   | Cumulative<br>Net Accrual  | Current Mark to<br>Market  | Notional<br>Difference   |   |
| Eived Dev              |   | Effective D  |   | 1   |   |   |   |   |  |  |  |  |   |
|                        |   |  |   | FXP   | LIBOR   | 5.687%  | (122.292)   | (132.441)   | (1.512.874)  | (21.272.141)   | 24.469.338   | (5,530,662)  |   |
|                        | 6.8   | CG   | 30,000,000  | FXP   | LIBOR   | 5.687%  | (122,292)   | ,   | (1,512,874)  | (21,272,141)   | 24,467,395   | (5,532,605   |   |
| nted Avgs              | 6.8   |  | \$ 60,000,000   |   |   | 5.687%  | \$ (244,584)  | \$ (264,882)  | \$ (3,025,748)   | \$ (42,544,281)  | \$ 48,936,733  | \$ (11,063,267)  |   |
| nt Year<br>ps          |   |  | \$ 60,000,000   |   |   |   | \$ (244,584)  | \$ (264,882)  | \$ (3,025,748)   | \$ (42,544,281)  | \$ 48,936,733  | \$ (11,063,267)  |   |
|                        |   |  |   |   |   |   |   |   |  |  |  |  |   |
|                        | Current   |  | Terminated Swap   | s   |   |   | Drier   |   | h Flow   |  |  |  |   |
| Date                   |   |  | Notional Amt  | Type  | Base<br>Index   | Fixed Rate  | Month   | Month   | Fiscal YTD   | Net Accrual  | Market   | Notional<br>Difference   |   |
|                        | Curre   | nt Fiscal Yea  | ar - Total Swaps  |   |   |   | Prior<br>Month  | Cas<br>Current<br>Month   | h Flow<br>Fiscal YTD   | Cumulative<br>Net Accrual  | Mark to<br>Current Mark to<br>Market   | Market<br>Notional<br>Difference   |   |
| nt Year<br>rminated Sw | aps   |  | \$ 60,000,000   |   |   |   | \$ (244,584)  | \$ (264,882)  | \$ (3,025,748)   | \$ (42,544,281)  | \$ 48,936,733  | \$ (11,063,267)  |   |
|                        |   |  |   |   |   | -   |   |   |  |  |  |  |   |
|                        |   |  | Ca  | sh Flo  | ow Co   | mparison  | l   |   |  |  |  |  |   |
| (20,000)               |   |  |   |   |   |   |   |   |  |  |  | Cash Flow to Date  |   |
| (40,000)               |   |  |   |   |   |   |   |   |  |  | Synthetic Fixed =  | \$58,031,273   |   |
| (50,000) -             |   |  |   |   |   |   |   |   |  |  | Fixed Rate =   | \$68,333,234   |   |
| (70,000)               |   |  |   |   |   |   |   |   |  | -  | Assumptions:<br>- Fixed rate debt issu   | ied at 4.93%   |   |
| (80,000)               |   |  |   |   |   |   |   |   |  |  |  |  |   |
|                        | Maturity<br>Date           Fixed Pay           7         3/10/2029           7         3/10/2029           7         3/10/2029           7         3/10/2029           7         3/10/2029           7         3/10/2029           7         3/10/2029           nt Year         Date           Maturity<br>Date         Date           nt Year         Swaps           nt Year         rminated Sw           (20,000)         (30,000)           (40,000)         (50,000)           (60,000)         (60,000) | 6         0.60%         0.94%           Curre           Maturity<br>Date         Years to<br>Maturity           Fixed Payer Swaps - By           7         3/10/2029         6.8           7         3/10/2029         6.8           7         3/10/2029         6.8           nt Year<br>ps         Current           Maturity<br>Date         Current           Maturity<br>State         Current           Maturity<br>State         Current           Maturity<br>State         Current | 6       0.60%       0.94%       0.24%         Current Fiscal Ye         Maturity       Years to<br>Maturity       Counter<br>Party         Fixed Payer Swaps - By Effective D       7         7       3/10/2029       6.8       ML         7       3/10/2029       6.8       CG         1ted Avgs       6.8       ML         7       3/10/2029       6.8       CG         nt Year<br>ps       Current Fiscal Year       Counter         Maturity       Counter       Party         Naturity       Counter       Party         It Year       Current Fiscal Year         swaps       Current Fiscal Year         It Year       Swaps         (20,000)       (30,000)         (40,000)       (50,000)         (50,000)       (60,000) | 6         0.60%         0.94%         0.24%           Current Fiscal Year Active Swaps           Maturity         Years to<br>Maturity         Counter<br>Party         Notional Amt           Fixed Payer Swaps - By Effective Date         Notional Amt         30,000,000           7         3/10/2029         6.8         ML         30,000,000           7         3/10/2029         6.8         CG         30,000,000           nt Year         ps         \$         60,000,000           Current Fiscal Year Terminated Swap           Maturity         Counter         Notional Amt           Date         Party         Notional Amt           nt Year         S         60,000,000           Current Fiscal Year Terminated Swap           nt Year         Sxaps         \$           swaps         \$         -           Current Fiscal Year - Total Swaps         \$           nt Year         \$         60,000,000           Inter         Ca           (20,000)         (30,000)         (40,000)           (50,000)         (60,000)         - | 6       0.60%       0.94%       0.24%         Current Fiscal Year Active Swaps         Maturity       Years to<br>Date       Counter<br>Maturity       Notional Amt       Type         Fixed Payer Swaps - By Effective Date       Notional Amt       Type         7       3/10/2029       6.8       ML       30,000,000       FXP         7       3/10/2029       6.8       CG       30,000,000       FXP         7       3/10/2029       6.8       CG       30,000,000       FXP         7       3/10/2029       6.8       CG       30,000,000       FXP         nt Year       \$       60,000,000       FXP       Party       Notional Amt       Type         Maturity       Current Fiscal Year Terminated Swaps       \$       60,000,000       Current Fiscal Year - Total Swaps         nt Year       Swaps       \$       -       Current Fiscal Year - Total Swaps       Interest Ra Cash File         (20,000)       (30,000)       (40,000)       (50,000)       (50,000)       (50,000) | 6       0.60%       0.94%       0.24%         Current Fiscal Year Active Swaps         Maturity       Years to<br>Date       Counter<br>Party       Notional Amt       Type       Base<br>Index         Fixed Payer Swaps - By Effective Date<br>7       3/10/2029       6.8       ML       30,000,000       FXP       LIBOR         7       3/10/2029       6.8       CG       30,000,000       FXP       LIBOR         rted Avgs       6.8       CG       30,000,000       FXP       LIBOR         nt Year<br>ps       \$       60,000,000       FXP       LIBOR         Current Fiscal Year Terminated Swaps         Maturity       Counter<br>Party       Notional Amt       Type       Base<br>Index         nt Year<br>Swaps       \$       -       Current Fiscal Year - Total Swaps         nt Year<br>Swaps       \$       60,000,000       Interest Rate Sw<br>Cash Flow Condition         (20,000)       (20,000)       (20,000)       (20,000)       (20,000)       (20,000)         (20,000)       (20,000)       (20,000)       (20,000)       (20,000)       (20,000)       (20,000) | Current Fiscal Year Active Swaps         Maturity       Years to<br>Maturity       Counter<br>Party       Notional Amt       Type       Base<br>Index       Fixed Rate         Fixed Payer Swaps - By Effective Date       7       3/10/2029       6.8       ML       30,000,000       FXP       LIBOR       5.687%         7       3/10/2029       6.8       CG       30,000,000       FXP       LIBOR       5.687%         7       3/10/2029       6.8       CG       30,000,000       FXP       LIBOR       5.687%         7       3/10/2029       6.8       CG       30,000,000       FXP       LIBOR       5.687%         nt Year       ps       \$       60,000,000       FXP       LIBOR       Fixed Rate         Maturity       Counter       Party       Notional Amt       Type       Base       Fixed Rate         Maturity       Counter       Party       Notional Amt       Type       Base       Fixed Rate         nt Year       S       60,000,000       \$       -       Current Fiscal Year - Total Swaps       Interest Rate Swap Portfo         Cash Flow Comparison       (30,000)       (40,000)       (50,000)       (60,000)       -       - | 6         0.60%         0.34%         0.24%           Current Fiscal Year Active Swaps           Maturity         Years to<br>Date         Counter<br>Maturity         Notional Amt         Type         Base<br>Index         Fixed Rate         Prior Month           Fixed Payer Swaps - By Effective Date<br>7         3/10/2029         6.8         ML         30,000,000<br>30,000,000         FXP         LIBOR         5.687%         (122,292)<br>(122,292)           7         3/10/2029         6.8         CG         30,000,000<br>3,000,000         FXP         LIBOR         5.687%         (122,292)<br>(122,292)           thed Avgs         6.8         CG         30,000,000         FXP         LIBOR         5.687%         (122,292)           thed Avgs         6.8         CG         30,000,000         FXP         LIBOR         5.687%         (122,292)           thed Avgs         6.8         CG         30,000,000         \$         (244,584)           Maturity         Counter<br>Party         Notional Amt         Type         Base<br>Index         Fixed Rate         Prior<br>Month           National Amt         Type         Base         Fixed Rate         Prior           Maturity | Current Fiscal Year Active Swaps       Cash I         Maturity       Years to<br>Date       Counter<br>Maturity       Counter<br>Party       Notional Amt       Type       Base<br>Index       Fixed Rate       Prior Month       Month         Fixed Payer Swaps - By Effective Date<br>7 3/10/2029       6.8       ML       30,000,000       FXP       LIBOR       5.687%       (122,292)       (132,441)         red Avgs       6.8       CG       30,000,000       FXP       LIBOR       5.687%       (122,292)       (132,441)         red Avgs       6.8       CG       30,000,000       FXP       LIBOR       5.687%       (122,292)       (132,441)         red Avgs       6.8       CG       30,000,000       FXP       LIBOR       5.687%       (122,292)       (132,441)         red Avgs       6.8       CG       30,000,000       FXP       LIBOR       5.687%       (122,292)       (132,441)         red Avgs       6.8       CG       30,000,000       \$       (24,584) \$       (264,882)         Maturity       Courter       Party       Notional Amt       Type       Base       Fixed Rate       Prior       Month       Month         nt Year       S       -       \$       -       \$ <td>6         0.69%         0.94%         0.24%           Current Fiscal Year Active Swaps           Maturity         Years to<br/>Date         Counter<br/>Maturity         Notional Amt         Type         Base<br/>Index         Fixed Rate         Prior Month         Month         Fiscal YTD           Fixed Payer Swaps - By Effective Date         FXP         LIBOR         5.687%         (122,292)         (132,441)         (1,512,874)           7         3/10/2029         6.8         CG         30,000,000         FXP         LIBOR         5.687%         (122,292)         (132,441)         (1,512,874)           7         3/10/2029         6.8         CG         30,000,000         FXP         LIBOR         5.687%         (122,292)         (132,441)         (1,512,874)           rd dvgs         6.8         CG         30,000,000         FXP         LIBOR         5.687%         (122,292)         (132,441)         (1,512,874)           Index searce         S         60,000,000         \$         (244,584) \$         (264,862) \$ (3,025,748)           Maturity         Counter         Notional Amt         Type         Base         Fixed Rate         Prior         Current         Fiscal YTD           Maturity</td> <td>6         0.66%         0.94%         0.24%           Current Fiscal Year Active Swaps         Cash Flow         (Since 307)           Maturity         Years to<br/>Date         Counter<br/>Party         Notional Amt         Type         Base<br/>Index         Fixed Rate         Prior Month         Fiscal YTD         Net Accrual           Fixed Payer Swaps - By Effective Date         7         3/10/2029         6.8         CL         30,000,000         FXP         LIBOR         5.687%         (122,292)         (132,411)         (1,512,874)         (21,272,141)           todays         6.8         CL         30,000,000         FXP         LIBOR         5.687%         (122,292)         (132,411)         (1,512,874)         (21,272,141)           todays         6.8         CG         30,000,000         FXP         LIBOR         5.687%         (122,292)         (132,411)         (1,512,874)         (21,272,141)           todays         6.8         CG43881 \$ (264,882) \$ (3,025,748) \$ (42,544,281)           Tuted Avga         S         60,000,000         S         S         S         Cash Flow           Tuted Swaps         <th colsp<="" td=""><td>6         0.84%         0.24%           Current Fiscal Year Active Swaps           Maturity         Counter         Base         Current Fiscal Year Active Swaps         Current Fiscal Year Active Swaps         Matk to           Fixed Payer Swaps - By Effective Date         Current Fiscal Year         Current Ark to         Current Ark to           7         3/10/2029         6.8         ML         30,000,000         FXP         LIBOR         5.687%         (122,222)         (132,441)         (1,512,874)         (21,272,141)         24,469,338           7         3/10/2029         6.8         CG         30,000,000         FXP         LIBOR         5.687%         (122,222)         (132,441)         (1,512,874)         (21,272,141)         24,469,338           7         3/10/2029         6.8         CG         30,000,000         FXP         LIBOR         5.687%         (22,222)         (132,441)         (1,512,874)         (21,82,4281)         \$         48,936,733           ted Avgs         6.8         CG         30,000,000         \$         (24,584) \$         (264,882) \$ (3,025,748) \$ (42,544,281)         \$         48,936,733           Maturity         Cournert Fiscal Year Terminated Swaps         S         S         S         S         <t< td=""></t<></td></th></td> | 6         0.69%         0.94%         0.24%           Current Fiscal Year Active Swaps           Maturity         Years to<br>Date         Counter<br>Maturity         Notional Amt         Type         Base<br>Index         Fixed Rate         Prior Month         Month         Fiscal YTD           Fixed Payer Swaps - By Effective Date         FXP         LIBOR         5.687%         (122,292)         (132,441)         (1,512,874)           7         3/10/2029         6.8         CG         30,000,000         FXP         LIBOR         5.687%         (122,292)         (132,441)         (1,512,874)           7         3/10/2029         6.8         CG         30,000,000         FXP         LIBOR         5.687%         (122,292)         (132,441)         (1,512,874)           rd dvgs         6.8         CG         30,000,000         FXP         LIBOR         5.687%         (122,292)         (132,441)         (1,512,874)           Index searce         S         60,000,000         \$         (244,584) \$         (264,862) \$ (3,025,748)           Maturity         Counter         Notional Amt         Type         Base         Fixed Rate         Prior         Current         Fiscal YTD           Maturity | 6         0.66%         0.94%         0.24%           Current Fiscal Year Active Swaps         Cash Flow         (Since 307)           Maturity         Years to<br>Date         Counter<br>Party         Notional Amt         Type         Base<br>Index         Fixed Rate         Prior Month         Fiscal YTD         Net Accrual           Fixed Payer Swaps - By Effective Date         7         3/10/2029         6.8         CL         30,000,000         FXP         LIBOR         5.687%         (122,292)         (132,411)         (1,512,874)         (21,272,141)           todays         6.8         CL         30,000,000         FXP         LIBOR         5.687%         (122,292)         (132,411)         (1,512,874)         (21,272,141)           todays         6.8         CG         30,000,000         FXP         LIBOR         5.687%         (122,292)         (132,411)         (1,512,874)         (21,272,141)           todays         6.8         CG43881 \$ (264,882) \$ (3,025,748) \$ (42,544,281)           Tuted Avga         S         60,000,000         S         S         S         Cash Flow           Tuted Swaps <th colsp<="" td=""><td>6         0.84%         0.24%           Current Fiscal Year Active Swaps           Maturity         Counter         Base         Current Fiscal Year Active Swaps         Current Fiscal Year Active Swaps         Matk to           Fixed Payer Swaps - By Effective Date         Current Fiscal Year         Current Ark to         Current Ark to           7         3/10/2029         6.8         ML         30,000,000         FXP         LIBOR         5.687%         (122,222)         (132,441)         (1,512,874)         (21,272,141)         24,469,338           7         3/10/2029         6.8         CG         30,000,000         FXP         LIBOR         5.687%         (122,222)         (132,441)         (1,512,874)         (21,272,141)         24,469,338           7         3/10/2029         6.8         CG         30,000,000         FXP         LIBOR         5.687%         (22,222)         (132,441)         (1,512,874)         (21,82,4281)         \$         48,936,733           ted Avgs         6.8         CG         30,000,000         \$         (24,584) \$         (264,882) \$ (3,025,748) \$ (42,544,281)         \$         48,936,733           Maturity         Cournert Fiscal Year Terminated Swaps         S         S         S         S         <t< td=""></t<></td></th> | <td>6         0.84%         0.24%           Current Fiscal Year Active Swaps           Maturity         Counter         Base         Current Fiscal Year Active Swaps         Current Fiscal Year Active Swaps         Matk to           Fixed Payer Swaps - By Effective Date         Current Fiscal Year         Current Ark to         Current Ark to           7         3/10/2029         6.8         ML         30,000,000         FXP         LIBOR         5.687%         (122,222)         (132,441)         (1,512,874)         (21,272,141)         24,469,338           7         3/10/2029         6.8         CG         30,000,000         FXP         LIBOR         5.687%         (122,222)         (132,441)         (1,512,874)         (21,272,141)         24,469,338           7         3/10/2029         6.8         CG         30,000,000         FXP         LIBOR         5.687%         (22,222)         (132,441)         (1,512,874)         (21,82,4281)         \$         48,936,733           ted Avgs         6.8         CG         30,000,000         \$         (24,584) \$         (264,882) \$ (3,025,748) \$ (42,544,281)         \$         48,936,733           Maturity         Cournert Fiscal Year Terminated Swaps         S         S         S         S         <t< td=""></t<></td> | 6         0.84%         0.24%           Current Fiscal Year Active Swaps           Maturity         Counter         Base         Current Fiscal Year Active Swaps         Current Fiscal Year Active Swaps         Matk to           Fixed Payer Swaps - By Effective Date         Current Fiscal Year         Current Ark to         Current Ark to           7         3/10/2029         6.8         ML         30,000,000         FXP         LIBOR         5.687%         (122,222)         (132,441)         (1,512,874)         (21,272,141)         24,469,338           7         3/10/2029         6.8         CG         30,000,000         FXP         LIBOR         5.687%         (122,222)         (132,441)         (1,512,874)         (21,272,141)         24,469,338           7         3/10/2029         6.8         CG         30,000,000         FXP         LIBOR         5.687%         (22,222)         (132,441)         (1,512,874)         (21,82,4281)         \$         48,936,733           ted Avgs         6.8         CG         30,000,000         \$         (24,584) \$         (264,882) \$ (3,025,748) \$ (42,544,281)         \$         48,936,733           Maturity         Cournert Fiscal Year Terminated Swaps         S         S         S         S <t< td=""></t<> |

| CHECK OR<br>ELECTRONIC # | PAYMENT DATE         | SUPPLIERS                              | PAYMENT AMOUNT     | PAYMENT<br>METHOD        | STATUS                   |
|--------------------------|----------------------|--|--------------------|--------------------------|--------------------------|
| 426894                   | 5-May-22             | Lin, Eileen (Eileen)                   | 1,820.00           | IRWD Check               | Reconciled               |
| 426895                   | 5-May-22             | Moeder, Jacob J (Jacob)                | 180                | IRWD Check               | Reconciled               |
| 426896                   | 5-May-22             | Nash, Joel                             | 68.46              | IRWD Check               | Reconciled               |
| 426897                   | 5-May-22             | Oldewage, Lars D (Lars)                | 102.37             | IRWD Check               | Reconciled               |
| 426898                   | 5-May-22             | Zamora, Victor A                       | 64.52              | IRWD Check               | Reconciled               |
| 426899                   | 5-May-22             | ACCUSOURCE, INC.                       | 715.87             | IRWD Check               | Reconciled               |
| 426900                   | 5-May-22             | ACE INDUSTRIES, INC.                   | 1,425.33           | IRWD Check               | Reconciled               |
| 426901                   | ,<br>5-May-22        | AECOM TECHNICAL SERVICES, INC.         | 18,800.28          | IRWD Check               | Reconciled               |
| 426902                   | 5-May-22             | AFLAC                                  | 2,087.42           | IRWD Check               | Reconciled               |
| 426903                   | 5-May-22             | AHDOOT, MORRIS                         | 40.15              | IRWD Check               | Reconciled               |
| 426904                   | ,<br>5-May-22        | AIRGAS, INC.                           | 396.59             | IRWD Check               | Reconciled               |
| 426905                   | 5-May-22             | ALCOR SOLUTIONS, INC                   | 38,808.00          | IRWD Check               | Reconciled               |
| 426906                   | 5-May-22             | ALL AMERICAN ASPHALT                   | 361.05             | IRWD Check               | Reconciled               |
| 426907                   | 5-May-22             | ALLIANT INSURANCE SERVICES, INC        | 86,877.65          | IRWD Check               | Reconciled               |
| 426908                   | 5-May-22             | AMAZON CAPITAL SERVICES, INC.          | 2,740.00           | IRWD Check               | Reconciled               |
| 426909                   | 5-May-22             | ANA KARINA PARSONS AND THOMAS PARSONS  | 44.62              | IRWD Check               | Reconciled               |
| 426910                   | 5-May-22             | ANDERSON, SHIRLY                       | 94.61              | IRWD Check               | Reconciled               |
| 426911                   | 5-May-22             | ANNETT, JENNIFER                       | 62.57              | IRWD Check               | Reconciled               |
| 426912                   | 5-May-22             | ANTHONY N. LARSEN                      | 550                | IRWD Check               | Reconciled               |
| 426913                   | 5-May-22             | APCO GRAPHICS INC                      | 235.11             | IRWD Check               | Reconciled               |
| 426914                   | 5-May-22             | AQUA-AEROBIC SYSTEMS INC               | 22,103.50          | IRWD Check               | Reconciled               |
|                          |                      |  | ,                  | IRWD Check               |                          |
| 426915<br>426916         | 5-May-22             |  | 687.82<br>408.75   |                          | Reconciled<br>Reconciled |
| 426916<br>426917         | 5-May-22<br>5-May-22 | ARAG NORTH AMERICA, INC.<br>AT&T       | 408.75<br>200.03   | IRWD Check<br>IRWD Check | Reconciled               |
| 426917                   | •                    | AT&T                                   | 55.97              | IRWD Check               | Reconciled               |
|                          | 5-May-22             |  |                    |                          |                          |
| 426919                   | 5-May-22             |  | 3,378.27<br>555.99 | IRWD Check               | Reconciled               |
| 426920                   | 5-May-22             |  |                    | IRWD Check               | Reconciled               |
| 426921                   | 5-May-22             | AUTOZONE PARTS, INC.                   | 543.47             | IRWD Check               | Reconciled               |
| 426922                   | 5-May-22             | B & K ELECTRIC WHOLESALE               | 5,427.89           | IRWD Check               | Reconciled               |
| 426923                   | 5-May-22             | BAE, SO YOUNG                          | 15.81              | IRWD Check               | Reconciled               |
| 426924                   | 5-May-22             | BANTA, BRAD                            | 66.1               | IRWD Check               | Reconciled               |
| 426925                   | 5-May-22             | BEAVER, REGINA                         | 35.36              | IRWD Check               | Reconciled               |
| 426926                   | 5-May-22             | BOHLSON, STEVEN                        | 62.81              | IRWD Check               | Reconciled               |
| 426927                   | 5-May-22             | BONEFISH GRILL, LLC                    | 184.96             | IRWD Check               | Reconciled               |
| 426928                   | 5-May-22             | BOTTOM LINE UTILITY SOLUTIONS, INC.    | 5,772.00           | IRWD Check               | Reconciled               |
| 426929                   | 5-May-22             | BROOKFIELD EASTWOOD TRIPLEX LLC        | 23.07              | IRWD Check               | Negotiable               |
| 426930                   | 5-May-22             | BROWN AND CALDWELL                     | 3,283.99           | IRWD Check               | Reconciled               |
| 426931                   | 5-May-22             | BROWN, CHRISTHOPI                      | 28.41              | IRWD Check               | Negotiable               |
| 426932                   | 5-May-22             | BSI SERVICES AND SOLUTIONS (WEST) INC. | 26,075.00          | IRWD Check               | Reconciled               |
| 426933                   | 5-May-22             | C WELLS PIPELINE MATERIALS INC         | 5,655.67           | IRWD Check               | Reconciled               |
| 426934                   | 5-May-22             | CALIFORNIA BARRICADE RENTAL, INC.      | 1,366.00           | IRWD Check               | Reconciled               |
| 426935                   | 5-May-22             | CANON SOLUTIONS AMERICA, INC.          | 6.93               | IRWD Check               | Reconciled               |
| 426936                   | 5-May-22             | CANON SOLUTIONS AMERICA, INC.          | 448.22             | IRWD Check               | Reconciled               |
| 426937                   | 5-May-22             | CAO, YIFANG                            | 24.4               | IRWD Check               | Reconciled               |
| 426938                   | 5-May-22             | CDB INVESTMENTS, L.P.                  | 94.12              | IRWD Check               | Reconciled               |
| 426939                   | 5-May-22             | CDW GOVERNMENT LLC                     | 56,720.05          | IRWD Check               | Reconciled               |
| 426940                   | 5-May-22             | CENTURY PAVING, INC.                   | 47,096.00          | IRWD Check               | Negotiable               |
| 426941                   | 5-May-22             | CHANG, SHIHAO                          | 102.2              | IRWD Check               | Negotiable               |
| 426942                   | 5-May-22             | CHEM SERVICE INC.                      | 227                | IRWD Check               | Reconciled               |
| 426943                   | 5-May-22             | CHENG, ZHONG                           | 24.46              | IRWD Check               | Negotiable               |
| 426944                   | 5-May-22             | CHO DESIGN ASSOCIATES, INC             | 5,600.00           | IRWD Check               | Reconciled               |
| 426945                   | 5-May-22             | CITY OF NEWPORT BEACH                  | 4,226.32           | IRWD Check               | Reconciled               |
| 426946                   | 5-May-22             | CITY OF ORANGE                         | 249.33             | IRWD Check               | Reconciled               |
| 426947                   | 5-May-22             | CLARK, STEPHEN D                       | 125.61             | IRWD Check               | Negotiable               |
| 426948                   | 5-May-22             | CLEAN ENERGY                           | 5,662.10           | IRWD Check               | Reconciled               |
| 426949                   | 5-May-22             | COLONIAL LIFE & ACCIDENT INSURANCE CO. | 652.98             | IRWD Check               | Reconciled               |
| 426950                   | 5-May-22             | CONSTELLATION NEWENERGY, INC.          | 198,093.94         | IRWD Check               | Reconciled               |
| 426951                   | 5-May-22             | CORO SOUTHERN CALIFORNIA               | 1,500.00           | IRWD Check               | Reconciled               |
| 426952                   | ,<br>5-May-22        | CUESTA CONSTRUCTION COMPANY            | 2,139.79           | IRWD Check               | Reconciled               |
| 426953                   | 5-May-22             | CULLIGAN OF SANTA ANA                  | 15,000.00          | IRWD Check               | Reconciled               |
| 426954                   | 5-May-22             | D & H WATER SYSTEMS INC.               | 11,894.21          | IRWD Check               | Reconciled               |
| 426955                   | 5-May-22             | DATA CLEAN CORPORATION                 | 559                | IRWD Check               | Reconciled               |
| 426956                   | 5-May-22             | DEAN ALLAN VOTAVA                      | 7,300.00           | IRWD Check               | Reconciled               |
| 426957                   | 5-May-22             | DECISIONPOINT SYSTEMS INC              | 93.08              | IRWD Check               | Reconciled               |
| 426958                   | 5-May-22             | DESU, RAVI                             | 329.45             | IRWD Check               | Negotiable               |
| 426958                   | 5-May-22             | DIAZ, ALEXANDER                        | 16.32              | IRWD Check               | Negotiable               |
|                          | 5-May-22             | DISTRICT ONE WEST BA 153, LLC          | 303.22             | IRWD Check               | Negotiable               |
| 476960                   |                      |  |                    |                          |                          |
| 426960<br>426961         | 5-May-22             | DMC ENGINEERING INC D - 1              | 3,892.93           | IRWD Check               | Reconciled               |

| CHECK OR<br>ELECTRONIC # | PAYMENT DATE  | SUPPLIERS   | PAYMENT AMOUNT | PAYMENT<br>METHOD        | STATUS     |
|--------------------------|---------------|---|----------------|--------------------------|------------|
| 426962                   | 5-May-22      | DRAKE TRAFFIC CONTROL SERVICES INC                  | 945            | IRWD Check               | Reconciled |
| 426963                   | 5-May-22      | DUGAN, MARLENE                                      | 64.57          | IRWD Check               | Negotiable |
| 426964                   | 5-May-22      | EHS INTERNATIONAL, INC                              | 2,507.50       | IRWD Check               | Reconciled |
| 426965                   | •             |   | 2,307.30       |                          | Reconciled |
|                          | 5-May-22      | EUROFINS ENVIRONMENT TESTING AMERICA HOLDINGS, INC. | 477.46         | IRWD Check<br>IRWD Check | Reconciled |
| 426966                   | 5-May-22      | EXECUTIVE LIGHTING & ELECTRIC                       |                |                          |            |
| 426967                   | 5-May-22      | FARRELL & ASSOCIATES                                | 216.66         | IRWD Check               | Reconciled |
| 426968                   | 5-May-22      | FASTBLUE COMMUNICATIONS INC.                        | 1,917.00       | IRWD Check               | Reconciled |
| 426969                   | 5-May-22      |   | 671.98         | IRWD Check               | Reconciled |
| 426970                   | 5-May-22      | FEHR & PEERS  | 11,635.00      | IRWD Check               | Reconciled |
| 426971                   | 5-May-22      | FERGUSON ENTERPRISES, LLC                           | 9,126.93       | IRWD Check               | Reconciled |
| 426972                   | 5-May-22      | FIDELITY SECURITY LIFE INSURANCE COMPANY            | 6,481.50       | IRWD Check               | Reconciled |
| 426973                   | 5-May-22      | FIDELITY SECURITY LIFE INSURANCE COMPANY            | 874.19         | IRWD Check               | Reconciled |
| 426974                   | 5-May-22      | FIDELITY SECURITY LIFE INSURANCE COMPANY            | 85.52          | IRWD Check               | Reconciled |
| 426975                   | 5-May-22      | FIDELITY SECURITY LIFE INSURANCE COMPANY            | 180.35         | IRWD Check               | Reconciled |
| 426976                   | 5-May-22      | FIELDER, JULIET                                     | 47.7           | IRWD Check               | Negotiable |
| 426977                   | 5-May-22      | FIREHOSEDIRECT.COM                                  | 160.93         | IRWD Check               | Reconciled |
| 426978                   | 5-May-22      | FISHER SCIENTIFIC COMPANY LLC                       | 6,713.21       | IRWD Check               | Reconciled |
| 426979                   | 5-May-22      | FLEET SOLUTIONS LLC                                 | 5,490.37       | IRWD Check               | Reconciled |
| 426980                   | 5-May-22      | FRONTIER CALIFORNIA INC.                            | 290.01         | IRWD Check               | Reconciled |
| 426981                   | 5-May-22      | GANAHL LUMBER CO.                                   | 758.54         | IRWD Check               | Reconciled |
| 426982                   | 5-May-22      | GARDEN COMMUNITIES                                  | 25.11          | IRWD Check               | Negotiable |
| 426983                   | 5-May-22      | GCI CONSTRUCTION, INC                               | 1,678.71       | IRWD Check               | Reconciled |
| 426984                   | 5-May-22      | GEI CONSULTANTS INC                                 | 3,657.00       | IRWD Check               | Reconciled |
| 426985                   | 5-May-22      | GEIGER BROS   | 2,262.43       | IRWD Check               | Reconciled |
| 426986                   | 5-May-22      | GOFORTH & MARTI                                     | 2,600.74       | IRWD Check               | Reconciled |
| 426987                   | 5-May-22      | GRAINGER  | 12,365.71      | IRWD Check               | Reconciled |
| 426988                   | 5-May-22      | GRAYBAR ELECTRIC COMPANY                            | 92.23          | IRWD Check               | Reconciled |
| 426989                   | 5-May-22      | GREGG DRILLING LLC                                  | 1,587.85       | IRWD Check               | Reconciled |
| 426990                   | 5-May-22      | GROTHE, MONTSERRAT                                  | 34.11          | IRWD Check               | Negotiable |
| 426991                   | 5-May-22      | HACH COMPANY  | 6,562.87       | IRWD Check               | Reconciled |
| 426992                   | 5-May-22      | HANSON BRIDGETT LLP                                 | 56,923.25      | IRWD Check               | Reconciled |
| 426993                   | 5-May-22      | HARRINGTON INDUSTRIAL PLASTICS LLC                  | 1,942.09       | IRWD Check               | Reconciled |
| 426994                   | 5-May-22      | HARTFORD LIFE AND ACCIDENT INSURANCE COMPANY        | 50.88          | IRWD Check               | Reconciled |
| 426995                   | 5-May-22      | HAYS, JOSEPH  | 67.17          | IRWD Check               | Negotiable |
| 426996                   | 5-May-22      | HAZEN AND SAWYER                                    | 13,030.00      | IRWD Check               | Reconciled |
| 426997                   | 5-May-22      | HELPMATES STAFFING SERVICES                         | 3,264.00       | IRWD Check               | Reconciled |
| 426998                   | 5-May-22      | HELPMATES STAFFING SERVICES LLC                     | 4,321.14       | IRWD Check               | Reconciled |
| 426999                   | 5-May-22      | HI-LINE INC   | 552.14         | IRWD Check               | Reconciled |
| 427000                   | 5-May-22      | HILL BROTHERS CHEMICAL COMPANY                      | 13,130.12      | IRWD Check               | Reconciled |
| 427001                   | 5-May-22      | HOHBERG, ROBERT                                     | 55.91          | IRWD Check               | Negotiable |
| 427002                   | 5-May-22      | HOME DEPOT USA INC                                  | 451.93         | IRWD Check               | Reconciled |
| 427003                   | 5-May-22      | HUDSON, SHERRI                                      | 43.96          | IRWD Check               | Negotiable |
| 427004                   | ,<br>5-May-22 | IRVINE COMMUNITY DEVELOPMENT COMPANY LLC            | 230,825.70     | IRWD Check               | Reconciled |
| 427005                   | 5-May-22      | IRVINE PACIFIC                                      | 1,261.99       | IRWD Check               | Reconciled |
| 427006                   | 5-May-22      | IRVINE PIPE & SUPPLY INC                            | 9,384.80       | IRWD Check               | Reconciled |
| 427007                   | 5-May-22      | IRWD-PETTY CASH CUSTODIAN                           | 1,346.59       | IRWD Check               | Reconciled |
| 427008                   | 5-May-22      | IVANOU, MIKALAI                                     | 267.9          | IRWD Check               | Reconciled |
| 427009                   | 5-May-22      | J. HARRIS INDUSTRIAL WATER TREATMENT, INC.          | 3,254.59       | IRWD Check               | Reconciled |
| 427010                   | 5-May-22      | JAE OH, SUNG  | 48.08          | IRWD Check               | Reconciled |
| 427010                   | 5-May-22      | JANJI, TONY   | 40.85          | IRWD Check               | Reconciled |
| 427011                   | 5-May-22      | JANSEN, SARENE                                      | 28.39          | IRWD Check               | Reconciled |
| 427012                   | 5-May-22      | JONSET LLC  | 1,672.00       | IRWD Check               | Reconciled |
| 427013                   | 5-May-22      | JORDAN ROOF COMPANY                                 | 1,667.07       | IRWD Check               | Reconciled |
| 427014                   | 5-May-22      | K HOVNANIAN HOMES                                   | 113.63         | IRWD Check               | Reconciled |
|                          |               |   |                |                          |            |
| 427016                   | 5-May-22      | KARNANI, RAJEEV                                     | 23.38          | IRWD Check               | Negotiable |
| 427017                   | 5-May-22      | KARPOWICH, DOROTHY J                                | 55.53          | IRWD Check               | Reconciled |
| 427018                   | 5-May-22      | KAZARIANS & ASSOCIATES, INC.                        | 4,922.20       | IRWD Check               | Reconciled |
| 427019                   | 5-May-22      | KHODAVERDIAN, ARIN                                  | 108.06         | IRWD Check               | Negotiable |
| 427020                   | 5-May-22      | KILL-N-BUGS TERMITE AND PEST CONTROL SERVICES       | 4,025.00       | IRWD Check               | Reconciled |
| 427021                   | 5-May-22      | KIM, JUNMO  | 34.71          | IRWD Check               | Reconciled |
| 427022                   | 5-May-22      | KO, JEONGWOO  | 37.93          | IRWD Check               | Negotiable |
| 427023                   | 5-May-22      | LABWORKS, LLC                                       | 2,750.00       | IRWD Check               | Reconciled |
| 427024                   | 5-May-22      | LAGUNA BEACH COUNTY WATER DISTRICT                  | 23,772.39      | IRWD Check               | Reconciled |
| 427025                   | 5-May-22      | LAKESHORE LAND LESSEE PT LLC                        | 175.55         | IRWD Check               | Negotiable |
| 427026                   | 5-May-22      | LANDCARE HOLDINGS, INC.                             | 92,360.00      | IRWD Check               | Reconciled |
| 427028                   | 5-May-22      | LEE, ROGER  | 102.49         | IRWD Check               | Reconciled |
|                          |               |   |                |                          |            |
| 427029                   | 5-May-22      | LENNAR HOMES OF CALIFORNIA, INC.                    | 374.66         | IRWD Check               | Reconciled |

| CHECK OR | PAYMENT DATE | SUPPLIERS   | PAYMENT AMOUNT | PAYMENT<br>METHOD | STATUS    |
|----------|--------------|---|----------------|-------------------|-----------|
| 427031   | 5-May-22     | LI, SONGAO  | 27.43          | IRWD Check        | Negotiab  |
| 427032   | 5-May-22     | LIANG, QICHAO   | 24.42          | IRWD Check        | Negotiab  |
| 427033   | 5-May-22     | LIN, JOCELYN  | 421.31         | IRWD Check        | Reconcile |
| 427034   | 5-May-22     | LINDE GAS & EQUIPMENT INC.                              | 3,433.75       | IRWD Check        | Reconcile |
| 427035   | 5-May-22     | LINTON, IAN H   | 212.22         | IRWD Check        | Negotiab  |
| 427036   | 5-May-22     | LY, CHRISTINE   | 202.86         | IRWD Check        | Reconcil  |
| 427037   | 5-May-22     | M&G PROPERTIES  | 671.06         | IRWD Check        | Reconcil  |
| 427038   | 5-May-22     | MADDOX ELECTRIC INC.                                    | 24,686.00      | IRWD Check        | Reconcil  |
| 427039   | 5-May-22     | MADISON COMPANY   | 27.13          | IRWD Check        | Reconcil  |
| 427040   | 5-May-22     | MARK THOMAS & COMPANY, INC.                             | 2,136.69       | IRWD Check        | Negotial  |
| 427041   | 5-May-22     | MASTERS SURVIVORS TRUST                                 | 59.17          | IRWD Check        | Negotial  |
| 427041   | 5-May-22     | MAYER, CLAIRE   | 28.55          | IRWD Check        | Reconcil  |
|          | -            | -   |                |                   | Reconcil  |
| 427043   | 5-May-22     | MC FADDEN-DALE INDUSTRIAL                               | 1,888.72       | IRWD Check        |           |
| 427044   | 5-May-22     | MC MASTER CARR SUPPLY CO                                | 384.11         | IRWD Check        | Reconcil  |
| 427045   | 5-May-22     | MCCALL'S METERS, INC.                                   | 711.31         | IRWD Check        | Reconcil  |
| 427046   | 5-May-22     | MCCARTHY BUILDING COMPANY                               | 1,329.82       | IRWD Check        | Reconcil  |
| 427047   | 5-May-22     | MCLARNEY, CHRISTINE                                     | 55.48          | IRWD Check        | Reconcil  |
| 427048   | 5-May-22     | MEI, QUISHENG   | 16.89          | IRWD Check        | Reconcil  |
| 427049   | 5-May-22     | MERRIMAC PETROLEUM, INC.                                | 41,755.06      | IRWD Check        | Reconcil  |
| 427050   | 5-May-22     | MERRYMAN, STEVE   | 17.57          | IRWD Check        | Negotial  |
| 427051   | 5-May-22     | METTLER-TOLEDO RAININ, LLC                              | 490            | IRWD Check        | Reconcil  |
| 427052   | 5-May-22     | MISCOWATER  | 8,321.75       | IRWD Check        | Reconcil  |
| 427053   | 5-May-22     | MISSION COMMUNICATIONS, LLC                             | 1,162.80       | IRWD Check        | Reconcil  |
| 427054   | 5-May-22     | MISSION LANDSCAPE COMPANIES                             | 1,593.23       | IRWD Check        | Reconcil  |
| 427055   | 5-May-22     | MORGAN COMPANY  | 313.33         | IRWD Check        | Reconcil  |
| 427056   | 5-May-22     | MR CRANE INC  | 1,595.00       | IRWD Check        | Reconcil  |
| 427057   | 5-May-22     | MRO ELECTRIC & SUPPLY CO.                               | 1,521.00       | IRWD Check        | Reconcil  |
| 427058   | 5-May-22     | MUNICIPAL WATER DISTRICT OF ORANGE COUNTY               | 2,592.34       | IRWD Check        | Reconcil  |
| 427059   | 5-May-22     | NALCO US 2 INC  | 1,034.41       | IRWD Check        | Reconcil  |
| 427060   | 5-May-22     | NATURES IMAGE INC                                       | 9,900.00       | IRWD Check        | Reconcil  |
|          | -            |   |                |                   |           |
| 427061   | 5-May-22     | NGUYEN, NHAT  | 40.19          | IRWD Check        | Reconcil  |
| 427062   | 5-May-22     | NIXON-EGLI EQUIPMENT COMPANY INC.                       | 5,119.72       | IRWD Check        | Reconcil  |
| 427063   | 5-May-22     | NOESSER, LISA   | 27.5           | IRWD Check        | Negotial  |
| 427064   | 5-May-22     | NRD, LLC  | 100            | IRWD Check        | Reconcil  |
| 427065   | 5-May-22     | O'CONNELL, JOANNA                                       | 89.59          | IRWD Check        | Reconcil  |
| 427066   | 5-May-22     | O'REILLY AUTO ENTERPRISES, LLC                          | 15.21          | IRWD Check        | Reconcil  |
| 427067   | 5-May-22     | O.C. SUPERIOR CUSTOM CLEANING                           | 792            | IRWD Check        | Reconcil  |
| 427068   | 5-May-22     | OLIN CORPORATION  | 30,378.03      | IRWD Check        | Reconcil  |
| 427069   | 5-May-22     | ON CALL EVENT RENTALS                                   | 1,740.13       | IRWD Check        | Reconcil  |
| 427070   | 5-May-22     | ONESOURCE DISTRIBUTORS LLC                              | 9,229.32       | IRWD Check        | Reconcil  |
| 427071   | 5-May-22     | ORACLE AMERICA, INC.                                    | 2,126.35       | IRWD Check        | Reconcil  |
| 427072   | 5-May-22     | ORANGE COUNTY AUTO PARTS CO                             | 2,145.79       | IRWD Check        | Reconcil  |
| 427073   | 5-May-22     | ORANGE COUNTY SANITATION DISTRICT                       | 71,441.15      | IRWD Check        | Reconcil  |
| 427074   | 5-May-22     | ORMOND, RAELA P   | 51.73          | IRWD Check        | Negotia   |
| 427075   | 5-May-22     | ORRICK, HERRINGTON & SUTCLIFFE LLP                      | 3,000.00       | IRWD Check        | Reconcil  |
| 427076   | 5-May-22     | PACIFIC CITY PROPERTIES, INC.                           | 46.08          | IRWD Check        | Reconcil  |
| 427077   | 5-May-22     | PACIFIC HYDROTECH CORPORATION                           | 18,070.11      | IRWD Check        | Reconcil  |
| 427078   | 5-May-22     | PACIFIC HYDROTECH CORPORATION                           | 951.06         | IRWD Check        | Reconcil  |
| 427079   | 5-May-22     | PACIFIC PARTS & CONTROLS INC                            | 1,813.19       | IRWD Check        | Reconcil  |
| 427079   | 5-May-22     | PACIFIC FARTS & CONTROLS INC<br>PACRIM ENGINEERING INC. | 4,725.00       | IRWD Check        | Negotial  |
|          | -            |   |                |                   | -         |
| 427081   | 5-May-22     | PAPER DEPOT DOCUMENT DESTRUCTION LLC                    | 194            | IRWD Check        | Reconcil  |
| 427082   | 5-May-22     | PARKHOUSE TIRE INC                                      | 725.74         | IRWD Check        | Reconcil  |
| 427083   | 5-May-22     | PERMEH, HOLLY   | 40.8           | IRWD Check        | Reconcil  |
| 427084   | 5-May-22     | PETRUSSE-NORRIS PAINTING, INC.                          | 3,234.00       | IRWD Check        | Reconcil  |
| 427085   | 5-May-22     | PLUMBERS DEPOT INC.                                     | 5,071.71       | IRWD Check        | Negotial  |
| 427086   | 5-May-22     | POLYDYNE INC  | 64,098.32      | IRWD Check        | Reconcil  |
| 427087   | 5-May-22     | PPG INDUSTRIES SALES, INC.                              | 948.16         | IRWD Check        | Reconcil  |
| 427088   | 5-May-22     | PRE-PAID LEGAL SERVICES, INC.                           | 1,274.56       | IRWD Check        | Reconcil  |
| 427089   | 5-May-22     | PRE-PAID LEGAL SERVICES, INC.                           | 849.6          | IRWD Check        | Reconcil  |
| 427090   | 5-May-22     | PREMIER PAVING INC.                                     | 732.85         | IRWD Check        | Reconcil  |
| 427091   | 5-May-22     | PROJECT PARTNERS LLC                                    | 2,000.00       | IRWD Check        | Reconcil  |
| 427092   | 5-May-22     | PULTE GROUP   | 549.1          | IRWD Check        | Reconcil  |
| 427093   | 5-May-22     | PUMP CHECK  | 995            | IRWD Check        | Reconcil  |
| 427093   | 5-May-22     | PYON, CHARLOTTE   | 197.31         | IRWD Check        | Negotial  |
|          | -            | -   |                |                   | -         |
| 427095   | 5-May-22     |   | 955            | IRWD Check        | Reconcil  |
| 427096   | 5-May-22     | QI, SHUHONG   | 1,113.07       | IRWD Check        | Reconcil  |
| 427097   | 5-May-22     | QUADIENT FINANCE USA, INC.                              | 864.14         | IRWD Check        | Reconcil  |
| 427098   | 5-May-22     | QUINLAN, BARBARA D - 3                                  | 20.17          | IRWD Check        | Reconcil  |

| CHECK OR<br>ELECTRONIC # | PAYMENT DATE         | SUPPLIERS  | PAYMENT AMOUNT     | PAYMENT<br>METHOD        | STATUS                   |
|--------------------------|----------------------|--|--------------------|--------------------------|--------------------------|
| 427099                   | 5-May-22             | RAM AIR ENGINEERING INC                            | 5,686.45           | IRWD Check               | Reconciled               |
| 427100                   | 5-May-22             | REACH EMPLOYEE ASSISTANCE INC                      | 1,066.80           | IRWD Check               | Reconciled               |
| 427101                   | 5-May-22             | RED WING SHOE STORE                                | 608.16             | IRWD Check               | Reconciled               |
| 427102                   | ,<br>5-May-22        | REFRIGERATION SUPPLIES DISTRIBUTOR                 | 310.93             | IRWD Check               | Reconciled               |
| 427103                   | 5-May-22             | RENTOKIL NORTH AMERICA, INC                        | 2,620.00           | IRWD Check               | Reconciled               |
| 427104                   | 5-May-22             | RESTEK CORPORATION                                 | 1,699.38           | IRWD Check               | Reconciled               |
| 427105                   | 5-May-22             | REZA SEDEHI AND BEHROOZ ERSHAGHI                   | 74.44              | IRWD Check               | Reconciled               |
| 427106                   | 5-May-22             | RICHARD C. SLADE & ASSOCIATES LLC                  | 2,192.00           | IRWD Check               | Reconciled               |
| 427107                   | 5-May-22             | RICHMOND AMERICAN HOMES OF MARYLAND, INC           | 1,065.23           | IRWD Check               | Reconciled               |
| 427108                   | 5-May-22             | RINCON TRUCK CENTER INC.                           | 284.07             | IRWD Check               | Reconciled               |
| 427109                   | 5-May-22             | ROADWAY ENGINEERING & CONTRACTING INC.             | 1,537.34           | IRWD Check               | Reconciled               |
| 427110                   | 5-May-22             | ROBERTS, CAROL                                     | 28.41              | IRWD Check               | Negotiable               |
| 427111                   | 5-May-22             | ROBERTS, ERIC                                      | 25.95              | IRWD Check               | Reconciled               |
| 427112                   | 5-May-22             | SANTA ANA BLUE PRINT                               | 818.83             | IRWD Check               | Reconciled               |
| 427113                   | 5-May-22             | SANTA MARGARITA FORD                               | 493.71             | IRWD Check               | Reconciled               |
| 427114                   | 5-May-22             | SARABI, KHASHAYAR                                  | 81.92              | IRWD Check               | Reconciled               |
| 427115                   | 5-May-22             | SCHINDLER ELEVATOR CORPORATION                     | 236.62             | IRWD Check               | Reconciled               |
| 427116                   | 5-May-22             | SCHLUNK, PETRA                                     | 51.23<br>703.05    | IRWD Check               | Negotiable<br>Reconciled |
| 427117<br>427118         | 5-May-22<br>5-May-22 | SEDEHI, ALI<br>SELECT TRENCHLESS PIPELINES INC     | 2,359.06           | IRWD Check<br>IRWD Check | Reconciled               |
| 427118                   | 5-May-22             | SHAMROCK SUPPLY CO INC                             | 2,339.00           | IRWD Check               | Reconciled               |
| 427121                   | 5-May-22             | SHAWMOOK SOFTEL COINC                              | 17.02              | IRWD Check               | Reconciled               |
| 427122                   | 5-May-22             | SHOETERIA  | 2,746.89           | IRWD Check               | Reconciled               |
| 427123                   | 5-May-22             | SIGNPOST HOMES INC                                 | 323.54             | IRWD Check               | Negotiable               |
| 427124                   | 5-May-22             | SITES PROJECT JOINT POWERS AUTHORITY               | 100,000.00         | IRWD Check               | Reconciled               |
| 427125                   | 5-May-22             | SITMATIC   | 2,275.27           | IRWD Check               | Reconciled               |
| 427126                   | 5-May-22             | SMITH SYSTEM DRIVER IMPROVEMENT INSTITUTE, INC.    | 4,547.55           | IRWD Check               | Reconciled               |
| 427127                   | 5-May-22             | SNYDER LANGSTON L.P.                               | 2,600.00           | IRWD Check               | Reconciled               |
| 427128                   | 5-May-22             | SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT        | 2,877.60           | IRWD Check               | Reconciled               |
| 427129                   | 5-May-22             | SOUTHERN CALIFORNIA EDISON COMPANY                 | 31,862.69          | IRWD Check               | Reconciled               |
| 427130                   | 5-May-22             | SOUTHERN CALIFORNIA GAS COMPANY                    | 25.13              | IRWD Check               | Reconciled               |
| 427131                   | 5-May-22             | SOUTHERN CALIFORNIA SECURITY CENTERS, INC.         | 284.05             | IRWD Check               | Reconciled               |
| 427132                   | 5-May-22             | SOUTHERN COUNTIES LUBRICANTS LLC                   | 8,796.85           | IRWD Check               | Reconciled               |
| 427133                   | 5-May-22             | STATE OF CALIFORNIA, DEPARTMENT OF WATER RESOURCES | 107,150.00         | IRWD Check               | Reconciled               |
| 427134                   | 5-May-22             | STETSON ENGINEERS INC.                             | 6,055.50           | IRWD Check               | Reconciled               |
| 427135                   | 5-May-22             | T.E. ROBERTS, INC.                                 | 43,874.00          | IRWD Check               | Reconciled               |
| 427137                   | 5-May-22             | TAIT ENVIRONMENTAL SERVICES, INC.                  | 3,662.83           | IRWD Check               | Reconciled               |
| 427138                   | 5-May-22             | TANKVISIONS, INC                                   | 30                 | IRWD Check               | Reconciled               |
| 427139                   | 5-May-22             | TENDLER, KIMBERLY<br>THOMPSON & PHIPPS INC         | 37.37              | IRWD Check               | Reconciled               |
| 427140<br>427141         | 5-May-22<br>5-May-22 | TK ELEVATOR CORPORATION                            | 2,513.25<br>218.38 | IRWD Check<br>IRWD Check | Reconciled<br>Reconciled |
| 427141                   | 5-May-22             | TOP TEN REAL ESTATE INC                            | 210.30             | IRWD Check               | Reconciled               |
| 427142                   | 5-May-22             | TRADE TRAC, INC.                                   | 928.7              | IRWD Check               | Reconciled               |
| 427143                   | 5-May-22             | TRAFFIC MANAGEMENT, INC                            | 1,510.00           | IRWD Check               | Reconciled               |
| 427145                   | 5-May-22             | TRI COUNTY PUMP COMPANY                            | 24,144.25          | IRWD Check               | Reconciled               |
| 427146                   | 5-May-22             | TU, AI LING  | 86.24              | IRWD Check               | Negotiable               |
| 427147                   | 5-May-22             | TUSTIN TOYOTA                                      | 42.19              | IRWD Check               | Reconciled               |
| 427148                   | 5-May-22             | U.S. GAIN - A DIVISION OF U.S. VENTURE, INC.       | 82.59              | IRWD Check               | Reconciled               |
| 427149                   | ,<br>5-May-22        | UNITED PARCEL SERVICE INC                          | 36                 | IRWD Check               | Reconciled               |
| 427150                   | 5-May-22             | UNITED SITE SERVICES OF CALIFORNIA INC             | 273.82             | IRWD Check               | Reconciled               |
| 427151                   | 5-May-22             | VEDULLA, DEEPA                                     | 207.22             | IRWD Check               | Reconciled               |
| 427152                   | 5-May-22             | VERIZON WIRELESS SERVICES LLC                      | 15,861.70          | IRWD Check               | Negotiable               |
| 427153                   | 5-May-22             | VERTEX INC   | 6,842.00           | IRWD Check               | Reconciled               |
| 427154                   | 5-May-22             | WALTERS WHOLESALE ELECTRIC                         | 90.19              | IRWD Check               | Reconciled               |
| 427155                   | 5-May-22             | WARMINGTON HOMES                                   | 348.37             | IRWD Check               | Negotiable               |
| 427156                   | 5-May-22             | WASTE MANAGEMENT COLLECTIONS AND RECYCLING, INC.   | 2,011.25           | IRWD Check               | Reconciled               |
| 427157                   | 5-May-22             | WAXIE'S ENTERPRISES, INC                           | 1,287.57           | IRWD Check               | Reconciled               |
| 427158                   | 5-May-22             | WEST YOST & ASSOCIATES, INC.                       | 10,849.30          | IRWD Check               | Reconciled               |
| 427159                   | 5-May-22             | WILLOW AT PORTOLA SPRINGS COMMUNITY ASSOCIATION    | 720.08             | IRWD Check               | Reconciled               |
| 427160                   | 5-May-22             | WINZELER, COURTNEY                                 | 73.05              | IRWD Check               | Negotiable               |
| 427161                   | 5-May-22             | WIRELESS WATCHDOGS, LLC                            | 2,268.00           | IRWD Check               | Reconciled               |
| 427162                   | 5-May-22             | WORKFORCE SAFETY LLC                               | 4,500.00           | IRWD Check               | Reconciled               |
| 427163                   | 5-May-22             | YANG, ZHIQIANG                                     | 38.48              | IRWD Check               | Reconciled               |
| 427164                   | 5-May-22             | YORKE ENGINEERING, LLC                             | 3,791.99           | IRWD Check               | Reconciled               |
| 427165                   | 5-May-22             | YSI, INC   | 762.88             | IRWD Check               | Reconciled               |
| 427166                   | 5-May-22             | YU, HENGTE   | 35.78              | IRWD Check               | Negotiable               |
| 427167                   | 5-May-22             |  | 56.65              | IRWD Check               | Reconciled               |
| 427168                   | 5-May-22             | ZEINEH, JACK D - 4                                 | 57.31              | IRWD Check               | Negotiable               |
|                          |                      |  |                    |                          |                          |

| 42170         > 54May 22         24MARQ, TU         64.54         NetWO Check         NetWO Check         Recorded           421710         SMBy 22         FIANCHIS, TAX BOARD         1,180.33         NIWO Check         Recorded           421712         SMBy 22         FIANCHIS, TAX BOARD         1,180.33         NIWO Check         Recorded           421712         SMBy 22         FIEN LONG TEMM CARE         611.23         NIWO Check         Recorded           421717         SMBy 22         FIEN LONG TEMM CARE         611.23         NIWO Check         Recorded           421717         SMBy 22         RARA RECorded         50.068.81         NIWO Check         Recorded           421717         SLMMy 22         ANS FILAT CONTRACTORS, INC.         77.35.00         NIWO Check         Recorded           421717         SLMMy 22         ASC CUP         11.01.00         NIWO Check         Recorded           421714         SLMMy 22         ASC CUP         11.01.00         NIWO Check         Recorded           421718         SLMMy 22         ASC CUP         11.01.00         NIWO Check         Recorded           421718         SLMMy 22         ASC CUP         11.01.00         NIWO Check         Recorded           421718  | CHECK OR     |              |  |                | PAYMENT    |            |
|--|--------------|--------------|--|----------------|------------|------------|
| 421710         S-May-22         ZMANG YU         49.75         Recorded           421712         S-May-22         INTENNATIONAL BIOTIEFICIOD OF LECTRICAL WORKERS LOCAL 47         3,221.56         RWD Check         Recorded           421712         S-May-22         INTENNATIONAL BIOTIEFICIOD OF LECTRICAL WORKERS LOCAL 47         3,221.56         RWD Check         Recorded           421714         L2 May-22         Lindsay, Marina D         3,338         RWD Check         Recorded           421717         L2 May-22         Lindsay, Marina D         3,388         RWD Check         Recorded           421717         L2 May-22         AN ASPHAT CONTRACTORS, NC.         1,238         RWD Check         Recorded           421718         L2 May-22         AGIC CONTRACTORS, NC.         1,218         RWD Check         Recorded           421718         L2 May-22         AGIC CONTRACTORS, NC.         1,318         RWD Check         Recorded           421718         L2 May-22         AGIC TONT RACTORS, NC.         1,318         RWD Check         Recorded           421718         L2 May-22         AGIC TONT RACTORS, NC.         1,318         RWD Check         Recorded           421718         L2 May-22         AGIC TONT RACTORS, NC.         1,312         RWD Check   | ELECTRONIC # | PAYMENT DATE | SUPPLIERS  | PAYMENT AMOUNT | METHOD     | STATUS     |
| 427211         5-May-22         TRANCHES TAX BOARD         1,180.33         FROM Check         Recordial           427123         5-May-22         PERS LONG TERM CARE         621.63         FROM Check         Recordial           427121         5-May-22         Marka Mana D         621.63         FROM Check         Recordial           427121         12-May-22         Marka Mana D         130         FROM Check         Recordial           427121         12-May-22         Marka Mana D         130         FROM Check         Recordial           427173         12-May-22         Marka Marka TCATTRATTORS INC.         7.735.00         FROM Check         Recordial           427174         12-May-22         ASCOURT STATADARDS, INC.         7.315.0         FROM Check         Recordial           427181         12-May-22         ASCOURT STATADARDS, INC.         11.010.0         FROM Check         Recordial           427183         12-May-22         ASCOURT STATADARDS, INC.         130         FROM Check         Recordial           427184         12-May-22         ASCOURT STATADARDS, INC.         130.00         FROM Check         Recordial           427184         12-May-22         ASCOURT STATADARDS STATACHARDS         130.00         FROM Check         Recordial   | 427169       | 5-May-22     | ZHANG, MINGXIA   | 84.34          | IRWD Check | Negotiable |
| 42727         S-May-22         INTERNATIONAL BROTHERINGD OF LECTRICAL WORKERS LOCAL 47         3.232.8         INVD Check         Recorded           427174         S-May-22         LIGBAY, Marina D         325.88         INVD Check         Recorded           427174         S-May-22         LIGBAY, Marina D         325.88         INVD Check         Recorded           427177         S-May-22         ANSTALL CONSTRUCTORS, INC.         7.755.00         INVD Check         Recorded           427178         S-May-22         ASS SULTE S'ANDAROS, INC.         331.5         INVD Check         Recorded           427178         S-May-22         ASS SULTE S'ANDAROS, INC.         31.00         INVD Check         Recorded           427184         S-May-22         ASS CORP         11.01.00         INVD Check         Recorded           427184         S-May-22         ASS CORP         10.11.00         INVD Check         Recorded           427184         S-May-22         ASS CORP         10.01.00         INVD Check         Recorded           427184         S-May-22         ASS CORP         10.01.00         INVD Check         Recorded           427184         S-May-22         ASS CORP         10.01.00         INVD Check         Recorded   | 427170       | 5-May-22     | ZHANG, YU  | 45.76          | IRWD Check | Reconciled |
| 427173         S. May 22         PERS LOWS TERM CARE         ÉL 26.8         PERO Check         Recordiel           427174         S. May 22         Mori, Richard K (Bich)         138         HUVD Check         Recordiel           427177         S. LAM-92         Mori, Richard K (Bich)         130.8         HUVD Check         Recordiel           427177         S. LAM-92         AK VASPHAL CONTRACTORS, INC.         7.735.00         HUVD Check         Recordiel           427178         J. May 23         AK CONTRACTORS, INC.         131.5         HUVD Check         Recordiel           427178         J. May 23         AK CONTRACTORS, INC.         139         HUVD Check         Recordiel           427181         J. May 22         AK TECHNICOGIES, INC.         139         HUVD Check         Recordiel           427183         J. May 22         AK SAN, INC.         140.14.00         HUVD Check         Recordiel           427184         J. May 22         AK SAN, INC.         151.12         HUVD Check         Recordiel           427184         J. May 22         AK SAN, INC.         151.27         HUVD Check         Recordiel           427184         J. May 22         AK SAN, INC.         151.27         HUVD Check         Recordiel   | 427171       | 5-May-22     | FRANCHISE TAX BOARD                                      | 1,180.33       | IRWD Check | Reconciled |
| 42717         12-May 22         Linday, Marina D         25188         Recordie           427175         12-May 22         KR Hord (Kinh)         10.0568.3         HWO Check         Recordie           427176         12-May 22         KR NC         17.0560.3         HWO Check         Recordie           427177         12-May 22         ASSULTS STANDARDS, NC.         121.5         HWO Check         Recordie           427178         12-May 22         ASSULTS STANDARDS, NC.         11.1.129         HWO Check         Recordie           427178         12-May 22         ASSULTS STANDARDS, NC.         10.1.1.20         HWO Check         Recordie           427184         12-May 22         ASSULTS TAG CLASS         48.87         HWO Check         Recordie           427184         12-May 22         ARGAS, NC.         10.1.1.20         HWO Check         Recordie           427185         12-May 22         ARGAS, NC.         10.1.1.20         HWO Check         Recordie           427186         12-May 22         ARGAS, NC.         10.1.1.20         HWO Check         Recordie           427188         12-May 22         ARGAS, NC.         10.1.1.20         HWO Check         Recordie           427188         12-May 22         ATHORS,  | 427172       | 5-May-22     | INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS LOCAL 47 | 3,521.58       | IRWD Check | Reconciled |
| 42775         12-May 22         Mot, Backard (Rich)         110         10.966.83         INVD Check         Reconcile           427177         12-May 22         ASV ASPHALT CONTRACTORS, INC.         7.753.02         INVD Check         Reconcile           427178         12-May 22         ASULTS STANADAS, INC.         7.754.02         INVD Check         Reconcile           427178         12-May 22         ASULTS STANADAS, INC.         120         INVD Check         Reconcile           427178         12-May 22         ASULTS TANADAS, INC.         120         INVD Check         Reconcile           427181         12-May 22         ASULTS TANADAS, INC.         120         INVD Check         Reconcile           427182         12-May 22         ALISTAK GASS         983         INVD Check         Reconcile           427183         12-May 22         ALISTAK GASS         983         INVD Check         Reconcile           427183         12-May 22         ALISTAK GASS         984         INVD Check         Reconcile           427183         12-May 22         ALISTAK GASS         12-May 24         INVD Check         Reconcile           427193         12-May 22         ALISTAK GASS         INVD Check         Reconcile           427194 </td <td>427173</td> <td>5-May-22</td> <td>PERS LONG TERM CARE</td> <td>612.63</td> <td>IRWD Check</td> <td>Reconciled</td>       | 427173       | 5-May-22     | PERS LONG TERM CARE                                      | 612.63         | IRWD Check | Reconciled |
| 4217/5         12-May 22         ARK INC         12056 AB         1000 Check         Recordic           421717         12-May 22         ARSOUTE STINAADS, INC.         312.5         INVD Check         Recordic           421718         12-May 22         ARSOUTE STINAADS, INC.         312.5         INVD Check         Recordic           421718         12-May 22         ARSOUTE STINAADS, INC.         312.5         INVD Check         Recordic           421718         12-May 22         ARSOUTE STINAADS, INC.         209         INVD Check         Recordic           421718         12-May 22         ARSO, INC.         2018         INVD Check         Recordic           421718         12-May 22         ARSO, INC.         408.8         INVD Check         Recordic           421718         12-May 22         ARSON INC.         108.1         INVD Check         Recordic           421718         12-May 22         ARSON INC.         108.1         INVD Check         Recordic           421719         12-May 22         ARSON INC.         108.1         INVD Check         Recordic           421719         12-May 22         ART         INVD Check         Recordic           421719         12-May 22         ART         INVD Check<   | 427174       | 12-May-22    | Lindsay, Marina D  | 253.89         | IRWD Check | Reconciled |
| 42177         12 Miny 22         ARV ASPHALT CONTRACTORS, INC.         7.750.00         RWD Check         Recordic           427178         13-May 22         AGS OUTLE STANADED, INC.         B84.43         IWU Dheck         Recordic           427181         13-May 22         AGS CORF.         11.01.00         IWU Dheck         Recordic           427181         12-May 22         AGIENT FCHOLOGY ISS, INC.         12.9         IWU Dheck         Recordic           427184         12-May 22         ARIEGA, INC.         99.18         IWU Dheck         Recordic           427186         12-May 22         ARIEGA, INC.         99.18         IWU Dheck         Recordic           427186         12-May 22         ARIEGA, INC.         10.11.40         IWU Dheck         Recordic           427185         12-May 22         ANIZON CONSERVATION GROUP, INC.         10.11.40         IWU Dheck         Recordic           427181         12-May 22         ANIZON CONSERVATION GROUP, INC.         10.11.40         IWU Dheck         Recordic           427181         12-May 22         ANIZON CONSERVATION GROUP, INC.         12.91.00         IWU Dheck         Recordic           427181         12-May 22         ANIZON CONSERVATION GROUP, INC.         12.91.00         IWU Dheck  | 427175       | 12-May-22    | Mori, Richard K (Rich)                                   | 180            | IRWD Check | Reconciled |
| 42777         12-May 22         ASSOUTE STANDARDS, NC.         312.3         NWD Check         Reconcile           427181         12-May 22         ASSOUTE STANDARDS, NC.         11.01.00         NWD Check         Reconcile           427182         12-May 22         ASIEST TECHNOLOGIES, NC.         20         NWD Check         Reconcile           427183         12-May 22         ARIEST TECHNOLOGIES, NC.         209         NWD Check         Reconcile           427184         12-May 22         ARIEST RESINCE         10.11.00         NWD Check         Reconcile           427184         12-May 22         ALISTAN TASISTANCE         10.91.01         NWD Check         Reconcile           427184         12-May 22         ALISTAN TASISTANCE         10.91.07         NWD Check         Reconcile           427187         12-May 22         AND CONSTANTS STRUCES, NIC         10.91.07         NWD Check         Reconcile           427198         12-May 22         AND CONSTANTS STRUCES, NIC         14.91         NWD Check         Reconcile           427193         12-May 22         ANTECES         19.90.60         NWD Check         Reconcile           427193         12-May 22         ANTECES         19.90.60         NWD Check         Reconcile <t< td=""><td>427176</td><td>12-May-22</td><td>8X8 INC</td><td>10,506.83</td><td>IRWD Check</td><td>Reconciled</td></t<>    | 427176       | 12-May-22    | 8X8 INC  | 10,506.83      | IRWD Check | Reconciled |
| 42779         12-May 22         AGS CORP.         11,011.00         IWWD Check         Reconcile           427188         12-May 22         AGIENT TECINOLOGIES, INC.         129         IWWD Check         Reconcile           427188         12-May 22         AGIENT TECINOLOGY CLASS TORES.         993         IWWD Check         Reconcile           427184         12-May 22         ALEGAS, INC.         993         IWWD Check         Reconcile           427185         12-May 22         ALEGAS, INC.         10,14.00         IWWD Check         Reconcile           427186         12-May 22         ALEGAS INC.         10,14.00         IWWD Check         Reconcile           427187         12-May 22         ALEGAS INC.         16,17.77         IWWD Check         Reconcile           427188         12-May 22         ANTERNACES, INC.         435         IWWD Check         Reconcile           427198         12-May 22         ANTERNACES, INC.         436         IWWD Check         Reconcile           427191         12-May 22         ANTERNACES, INC.         1.69.00         IWWD Check         Reconcile           427193         12-May 22         ANTERNACES, INC.         1.69.00         IWWD Check         Reconcile           427191  | 427177       | 12-May-22    | A&Y ASPHALT CONTRACTORS, INC.                            | 7,735.00       | IRWD Check | Reconciled |
| 42718.1         12-May 22         ASC CORP.         11.00         IRVO Check         Reconcile           42718.3         12-May 22         AR TECHNOLOGY LABORATORIES         239         IRVO Check         Reconcile           42718.3         12-May 22         AR TECHNOLOGY LABORATORIES         299.18         IRVO Check         Reconcile           42718.5         12-May 22         ALR TECHNOLOGY LABORATORIES         299.18         IRVO Check         Reconcile           42718.1         12-May 22         ALLAY INSURANCE SERVICES,INC         10.114.00         IRVO Check         Reconcile           42718.1         12-May 22         ANGCONSERVICES,INC         10.114.00         IRVO Check         Reconcile           42718.1         12-May 22         ANGENCAMACIN CAPILAS ENVICES, INC.         435         IRVO Check         Reconcile           42719.1         12-May 22         ANGENCAS, INC.         15.01.00         IRVO Check         Reconcile           42719.1         12-May 22         ANGENCAS, INC.         13.51.00         IRVO Check         Reconcile           42719.1         12-May 22         ANGENCAS, INC.         13.53.00         IRVO Check         Reconcile           42719.1         12-May 22         ANGENCAS, INC.         27.21         IRVO Check   | 427178       | 12-May-22    | ABSOLUTE STANDARDS, INC.                                 | 312.5          | IRWD Check | Reconciled |
| 427182         12-May-22         AGILNT TECHNOLOGORIS, INC.         129         IRVO Check         Reconcile           427183         12-May-22         AIRGAS, INC.         991.8         IRVO Check         Reconcile           427184         12-May-22         AIRGAS, INC.         991.8         IRVO Check         Reconcile           427185         12-May-22         AILIANT INSUMACE SERVICES, INC.         10.11.00         IRVO Check         Reconcile           427185         12-May-22         AILIANT INSUMACE SERVICES, INC.         10.81.8         IRVO Check         Reconcile           427181         12-May-22         AIMAZON COMPARTIN, INC.         153.7.2         IRVO Check         Reconcile           4271910         12-May-22         AIMAZON CAPTAL SERVICES, INC.         16.000         IRVO Check         Reconcile           4271911         12-May-22         AT&I         IRVO Check         Reconcile         400.00         IRVO Check         Reconcile           427192         12-May-22         AT&I         IRVO Check         Reconcile         400.00         IRVO Check         Reconcile           427191         12-May-22         AT&I         IRVO Check         Reconcile         4271.91         IX-May-22         IX-RVC Reck         Reconcile         4  | 427179       | 12-May-22    | ACI  | 894.93         | IRWD Check | Reconciled |
| 427.83         12-M+y22         AR TECHNOLOGY LABORATORIES         298         IR.WO Check         Reconcile           427.185         12-M+y22         ALISTAR GLASS.         68.78         IR.WO Check         Reconcile           427.185         12-M+y22         ALISTAR GLASS.         68.78         IR.WO Check         Reconcile           427.185         12-M+y22         AMCONEXPLATION GROUP, INC.         10.13.00         IR.WO Check         Reconcile           427.185         12-M+y22         AMCONEXPLATION GROUP, INC.         10.81         IR.WO Check         Reconcile           427.181         12-M+y22         AMCONEXPLATIN, INC.         43.8         IR.WO Check         Reconcile           427.191         12-M+y22         ADU-ANTRICS ALIS COMPANY         2.42.15         IR.WO Check         Reconcile           427.193         12-M+y22         ATHENS SERVICES INC.         1.56.00         IR.WO Check         Reconcile           427.193         12-M+y22         ATHENT SERVICES INC.         1.56.00         IR.WO Check         Reconcile           427.193         12-M+y22         BALK OR NEW YORK MELLON TRUST COMPANY NA         5.38.00         IR.WO Check         Reconcile           427.193         12-M+y22         BALK OR MELLORITINK         5.38.00         IR.W  | 427181       | 12-May-22    | ADS CORP.  | 11,101.00      | IRWD Check | Reconciled |
| 42148         12 May 22         ARGAS, INC.         99.18         IRVO Check         Reconcile           427186         12 May 22         ALLIANT INSURANCE SERVICES, INC.         10.11.00         IRVO Check         Reconcile           427187         12 May 22         AMCON CONSERVICTON GOPU, INC.         10.11.00         IRVO Check         Reconcile           427188         12 May 22         AMCON CONSERVICTON GOPU, INC.         16.17.72         IRVO Check         Reconcile           427190         12 May 22         AMCON CAPITAL SERVICES, INC.         16.17.72         IRVO Check         Reconcile           427191         12 May 22         ATRICA VIA VEQUIMENT, INC.         35.17.72         IRVO Check         Reconcile           427192         12 May 22         ATRIS         SERVICES         1.950.00         IRVO Check         Reconcile           427191         12 May 22         ATRIS         SERVICES         2.956.00         IRVO Check         Reconcile           427193         12 May 22         ATRIS         SERVICES         2.957.01         IRVO Check         Reconcile           427191         12 May 22         ATRIS SERVICES         2.957.01         IRVO Check         Reconcile           427192         12 May 22         SERVICES AND SSOCIATES,  | 427182       | 12-May-22    | AGILENT TECHNOLOGIES, INC.                               | 129            | IRWD Check | Reconciled |
| 427148         12-May-22         AIRGAS, INC.         99.18         IKNO Check         Reconcile           427185         12-May-22         ALLIANT RISUBANCE SERVICES, INC.         10.11.00         IKNO Check         Reconcile           427187         12-May-22         AIMCONSTRUCTION GORUP, INC.         10.81.81         IKNO Check         Reconcile           427188         12-May-22         AIMCON CAPTAL SERVICES, INC.         16.11.72         IKNO Check         Reconcile           427181         12-May-22         AIMCON CAPTAL SERVICES, INC.         16.31.72         IKNO Check         Reconcile           427193         12-May-22         AIMCON CAPTAL SERVICES, INC.         16.90.00         IKNO Check         Reconcile           427191         12-May-22         AINC Check PARTS, INC.         1.800.00         IKNO Check         Reconcile           427192         12-May-22         AINTENES ENLISAND BATTERIES PLUS AND BATTERIES PLUS AND ASSOCIATES, INC.         3.50.00         IKNO Check         Reconcile           427198         12-May-22         BATTERIES PLUS AND BATTERIES PLUS AND BATTERIES PLUS AND ASSOCIATES, INC.         3.50.00         IKNO Check         Reconcile           427191         12-May-22         BURINGT MARET LABORADORY COMPARITON         3.50.60         IKNO Check         Reconcile   | 427183       | -            | AIR TECHNOLOGY LABORATORIES                              | 289            | IRWD Check | Reconciled |
| 42185         12 AMay 22         ALLSTAR GLASS         468.78         IRVD Check         Recordie           421186         12 AMay 22         AM CONSERVATION GROUP, INC.         10.14.40.00         INVD Check         Recordie           421187         12 AMay 22         AM CONSERVATION GROUP, INC.         15.17.27         INVD Check         Recordie           421188         12 AMay 22         AMARCIN AVAN EQUIPMENT, INC.         435         INVD Check         Recordie           421191         12 AMay 22         AMARCIN AVAN EQUIPMENT, INC.         435         INVD Check         Recordie           421192         12 AMay 22         AMARCIN AVAN EQUIPMENT, INC.         435         INVD Check         Recordie           421193         12 AMay 22         ATET         IEVAD Check         Recordie         421194         IZAMay 22         ATET         IEVAD Check         Recordie           421193         12 AMay 22         AATET RESINGENS         237.50         IRVD Check         Recordie           421194         12 AMay 22         AATERIS FLUXABANT ESTINC.         237.50         IRVD Check         Recordie           421194         12 AMay 22         BAHK ON Check JARANT SINC.         23.54         INVD Check         Recordie           421204         12 AMay   |              | -            |  |                |            | Reconciled |
| 42186         12 Aug. 22         ALLART INSURANCE SERVICES INC.         10.81.8         INVD Check Recordle           427187         12 Aug. 22         AMACON CAPITAL SERVICES, INC.         10.81.8         INVD Check Recordle           427188         12 Aug. 22         AMACON CAPITAL SERVICES, INC.         514.72         INVD Check Recordle           427190         12 Aug. 22         AMACON CAPITAL SERVICES, INC.         425         INVD Check Recordle           427191         12 Aug. 22         ATAT         1.900.50         INVD Check Recordle           427192         12 Aug. 22         ATHEN SERVICES         1.900.50         INVD Check Recordle           427193         12 Aug. 22         ATHEN SERVICES         1.900.50         INVD Check Recordle           427194         12 Aug. 22         ANTO FORK WORK MELLON TRUST COMPANY NA         3.850.00         INVD Check Recordle           427195         12 Aug. 22         BATT FERST NIC C         2.365         INVD Check Recordle           427195         12 Aug. 22         BATT FERST NIC AUG SOCIATES, INC         3.860.00         INVD Check Recordle           427191         12 Aug. 22         BATT FERST NIC AUG. SOCIATES, INC         3.860.00         INVD Check Recordle           427191         12 Aug. 22         BATT FERST NIC AUG. SOCIATES, INC   |              | -            | -  |                |            | Reconciled |
| 421187         12 AM, 22         AM CONSERVATION GROUP, INC.         108.18         IRWD Check         Reconcile           421188         12 AM, 22         AMERICAN VAN EQUIPMENT, INC.         151.17.27         IRWD Check         Reconcile           421191         12 AM, 22         ADU ANZON CAPRITAL SALES COMPANY         4435         IRWD Check         Reconcile           421191         12 AM, 22         ADU ANTERI SALES COMPANY         16.09.00         IRWD Check         Reconcile           421192         12 AM, 22         ADU ANTERI SALES COMPANY         16.09.00         IRWD Check         Reconcile           421193         12 AM, 22         ATERIS SERVICES         19.50.60         IRWD Check         Reconcile           421194         12 AM, 22         BANK ORK MELLON TRUST COMPANY NA         5.36.50.00         IRWD Check         Reconcile           421195         12 AM, 22         BECKER, LARKY         40.05         IRWD Check         Reconcile           421191         12 AM, 22         BECKER, LARKY         40.05         IRWD Check         Reconcile           421192         12 AM, 22         BECKER, LARKY         40.05         IRWD Check         Reconcile           421191         12 AM, 22         BECKER, LARKY         40.00         IRWD Check   |              | -            |  |                |            | Reconciled |
| 421188         12.4m,22         AMAZON CAPITAL SERVICES, INC.         15.17.27         IRWD Check         Reconcile           427190         12.4m,22         APPICADURITANTS, INC.         54.72.2         IRWD Check         Reconcile           427191         12.4m,22         APD CONSULTANTS, INC.         435         IRWD Check         Reconcile           427192         12.4m,22         ATAT         1.960.00         IRWD Check         Reconcile           427192         12.4m,22         ATAT         SECONSTANCES         1.950.60         IRWD Check         Reconcile           427194         12.4m,22         ATHENS SERVICES         1.950.60         IRWD Check         Reconcile           427195         12.4m,22         ANTRERS PLUS AND ANTERIS PLUS BULBS         2.33.65         IRWD Check         Reconcile           427196         12.4m,22         BATTRERS PLUS AND ASSOCIATES, INC.         2.34.40.00         IRWD Check         Reconcile           427191         12.4m,22         BEHRENS AND ASSOCIATES, INC.         2.43.53         IRWD Check         Reconcile           427200         12.4m,22         BEHRENS AND ASSOCIATES, INC.         2.34.31.4         IRWD Check         Reconcile           427201         12.4m,22         DEHRENS AND ASSOCIATES, INC.         2.3  |              | -            |  |                |            | Reconciled |
| 427190         12-May-22         AMERICAN VAN EQUIPMENT, INC.         473         157.72         IRVD Check         Reconcile           427191         12-May-22         ADUCANUTRY, INC.         435         IRVD Check         Reconcile           427193         12-May-22         ADUCANUTRY, INC.         436         IRVD Check         Reconcile           427193         12-May-22         ATHERS SERVICES         1.950.60         IRVD Check         Reconcile           427194         12-May-22         BATTOSON FRATS, INC.         2.72         IRVD Check         Reconcile           427195         12-May-22         BATTRES FILLS BULBS         2.805.60         IRVD Check         Reconcile           427196         12-May-22         BATTRES FILLS BULBS         40.06         IRVD Check         Reconcile           427191         12-May-22         BATTRES FILLS BULS BULBS         35,440.00         IRVD Check         Reconcile           427192         12-May-22         BATTRES FILLS BULS BULBS         35,440.00         IRVD Check         Reconcile           427201         12-May-22         BATTRES FILLS BULS AND SATTORY OF CALLFORNIA INC         2,31.31         IRVD Check         Reconcile           427202         12-May-22         CALLFORNA MARICADE RENTAL, INC.         1  |              | -            |  |                |            | Reconciled |
| 427190         12-May-22         APD_CONSULTANTS, INC.         435         HWD Check         Reconcile           427191         12-May-22         ATRT         1,690.00         HWD Check         Reconcile           427192         12-May-22         ATRS         1,595.00         HWD Check         Reconcile           427195         12-May-22         ATHENS SERVICES         1,595.00         HWD Check         Reconcile           427195         12-May-22         BAIK OF NEW YORK MELLON TRUST COMPANY NA         2,375.00         HWD Check         Reconcile           427196         12-May-22         BATERIES PLUS AND ASTECHES PLUS BULBS         20.56         HWD Check         Reconcile           427199         12-May-22         BECKER, LARRY         40.00         HWD Check         Reconcile           427190         12-May-22         BLACK & VEATCH CORPORATION         51,800.00         HWD Check         Reconcile           427201         12-May-22         BLACK & VEATCH CORPORATION OF CALIFORNIA INC         1,315.63         HWD Check         Reconcile           427203         12-May-22         CALIFORNIA BARRICADE RENTAL, INC.         1,315.63         HWD Check         Reconcile           427204         12-May-22         COWELS PRETINAL, INC.         1,595.53   |              | -            | -  |                |            |            |
| 427191         12-May-22         AQUA-METRIC SALES COMPANY         2,421.59         RWD Check         Reconcile           427193         12-May-22         ATHERT SERVICES         1,950.60         RWD Check         Reconcile           427194         12-May-22         ATHERT SERVICES         1,950.60         RWD Check         Reconcile           427195         12-May-22         BATREOR PARTS, INC.         23.53.00         RWD Check         Reconcile           427196         12-May-22         BATREOR PARTS, INC.         35.440.00         RWD Check         Reconcile           427198         12-May-22         BECRE, LARRY         40.05         RWD Check         Reconcile           427198         12-May-22         BELREN AND ASSOCIATES, INC.         38.491.75         RWD Check         Reconcile           427200         12-May-22         BURKSTON ASSOCIATES, INC.         2,23.31         RWD Check         Reconcile           427201         12-May-22         BURKSTON ASSOCIATES, INC.         2,3.31         RWD Check         Reconcile           427202         12-May-22         CALLORN MARRICAR ERENTA, INC.         2,3.31         RWD Check         Reconcile           427204         12-May-22         CALDORN MARRICAR ERENTA, INC.         2,3.31         RWD Check   |              | -            |  |                |            | Reconciled |
| 427192       12-May-22       ATEX       L690.90       IRWO Check       Reconcile         427134       12-May-22       ATTEXS SERVICES       12-90.00       Reconcile         427134       12-May-22       AUTOONE PARTS, INC.       77.72       IRWO Check       Reconcile         427135       12-May-22       BATK OR INVO KINK MELLON TRUST COMPANY NA       5,395.00       IRWO Check       Reconcile         427136       12-May-22       BECKER, LARRY       40.06       IRWO Check       Reconcile         427198       12-May-22       BECKER, LARRY       40.06       IRWO Check       Reconcile         427199       12-May-22       BELREN KA VEATEL CORPORATION       38,491.75       IRWO Check       Reconcile         427201       12-May-22       BURLINGTON SAFETY LABORATORY OF CALIFORNIA INC       1,315.63       IRWO Check       Reconcile         427203       12-May-22       COW CONVERNME ATELIC       2,31.43       IRWO Check       Reconcile         427204       12-May-22       CDW OVERNME RATURIA SIN C       3,277.26       IRWO Check       Reconcile         427205       12-May-22       CDW OVERNMERY LLC       2,01.92.57       IRWO Check       Reconcile         427206       12-May-22       CDHAN INP       2,272.56<   |              | -            |  |                |            |            |
| 42793       12-Miny-22       ATHENS SERVICES       1,950.66       IRWD Check       Reconcile         427195       12-Miny-22       BATTERIES PLUS AND BATTERIES PLUS BULBS       203.65       IRWD Check       Reconcile         427196       12-Miny-22       BATTERIES PLUS AND BATTERIES PLUS BULBS       203.65       IRWD Check       Reconcile         427197       12-Miny-22       BECKIR, LARY       30.66       IRWD Check       Reconcile         427198       12-Miny-23       BECKIR, LARY       35,44000       IRWD Check       Reconcile         427191       12-Miny-23       BELCK & VECHCH COMPORATION       36,44175       IRWD Check       Reconcile         427200       12-Miny-23       BELCK & VECHCH COMPORATION (FCLI/RONIA INC       2,13.15.63       IRWD Check       Reconcile         427201       12-Miny-22       CALIFORNIA BARCIADE RETAL, INC.       2,13.15.63       IRWD Check       Reconcile         427203       12-Miny-22       CALIFORNIA BARCIADE RETAL, INC.       2,265.45       IRWD Check       Reconcile         427204       12-Miny-22       COLIFORNIA BARCIADE RETAL, INC.       2,05.45       IRWD Check       Reconcile         427205       12-Miny-22       COLIFORNIA BARCIADE RETAL, INC.       2,05.54       IRWD Check       Reconcile  |              | -            |  |                |            |            |
| 427194         12-May-22         AUTCONE PARTS, INC.         27.72         IRWD Check         Reconcile           427195         12-May-22         BATTERIES PLUS AND BATTERIES PLUS BULBS         203.65         IRWD Check         Reconcile           427197         12-May-22         BATTERIES PLUS AND BATTERIES PLUS BULBS         203.65         IRWD Check         Reconcile           427197         12-May-22         BECKER, LARKY         40.06         IRWD Check         Reconcile           427199         12-May-22         BLACK & VEATCH CORPORATION         38,491.75         IRWD Check         Reconcile           427201         12-May-22         BUS ISRVICS AND SOLUTIONS (WEST) INC.         51,800.00         IRWD Check         Reconcile           427202         12-May-22         BURLINGTON SAFETY LABORATORY OF CALIFORNIA INC         1,31.53         IRWD Check         Reconcile           427203         12-May-22         COW GOVERNIA BARRCADE RENTAL, INC.         21,437.00         IRWD Check         Reconcile           427205         12-May-22         COW GOVERNIA BARRCADE RENTAL, INC.         21,437.00         IRWD Check         Reconcile           427205         12-May-22         COW GOVERNIA BARRCADE RENTAL, INC.         21,855.84.01         IRWD Check         Reconcile           427206   |              | -            |  |                |            |            |
| 1272155         12-May-22         BATTERIES PLUS AND BATTERIES PLUS BULSS         203.65         IRWD Check         Reconcile           127137         12-May-22         BECKER, LARRY         40.66         IRWD Check         Reconcile           127138         12-May-22         BECKER, LARRY         35,440.00         IRWD Check         Reconcile           127138         12-May-22         BELACK & VEATCH CORPORATION         35,440.00         IRWD Check         Reconcile           127200         12-May-22         BURLING TON ADTERILES PILLINE MATERIALS INC         51,800.00         IRWD Check         Reconcile           127202         12-May-22         CALLES PIPLINE MATERIALS INC         2,131.50         IRWD Check         Reconcile           127204         12-May-22         CALLES PIPLINE MATERIALS INC         2,133.40         IRWD Check         Reconcile           127204         12-May-22         CALLES PIPLINE MATERIALS INC         2,143.700         IRWD Check         Reconcile           127204         12-May-22         CALLES PIPLINE MATERIALS INC         2,143.700         IRWD Check         Reconcile           127204         12-May-22         CALLES PIPLINE MATERIALS INC         2,143.700         IRWD Check         Reconcile           127205         12-May-22         CALLE  |              | -            |  | ,              |            |            |
| 427:96         12-May-22         BATTERIES PLUS AND BATTERIES PLUS BULBS         20.3 65         IRWD Check         Reconcile           427:197         12-May-22         BEKKER, LARMY         40.06         IRWD Check         Reconcile           427:198         12-May-22         BLARK K VLATCH CORPORATION         38,491.75         IRWD Check         Reconcile           427:199         12-May-22         BUS REVICES AND SOUTIONS (WEST) INC.         13,800.00         IRWD Check         Reconcile           427:201         12-May-22         BUS REVICES AND SOUTIONS (WEST) INC.         13,15.63         IRWD Check         Reconcile           427:203         12-May-22         CWELS PIEVIEM MATERIALS INC         21,437.00         IRWD Check         Reconcile           427:203         12-May-22         CALFORNIA BARRICADE RENTAL, INC.         21,437.00         IRWD Check         Reconcile           427:205         12-May-22         CHAM HERRY         20,192.57         IRWD Check         Reconcile           427:206         12-May-22         CHAM HERRY         3,277.26         IRWD Check         Reconcile           427:207         12-May-22         CHAM HERRY, INC         3,304.00         IRWD Check         Reconcile           427:210         12-May-22         CHAM HERRY INC   |              | -            |  |                |            |            |
| 127197       12-May-22       BEKRENS AND ASSOCIATES, INC.       35,440.00       IRWD Check       Reconcile         127198       12-May-22       BELACK & VEATCH CORPORATION       35,440.10       IRWD Check       Reconcile         127199       12-May-22       BUACK & VEATCH CORPORATION       35,440.10       IRWD Check       Reconcile         127200       12-May-22       CWELLS PIPELINE MATERIALS INC       1,315.53       IRWD Check       Reconcile         127202       12-May-22       CALIES PIPELINE MATERIALS INC       1,315.53       IRWD Check       Reconcile         127203       12-May-22       CALIES PIPELINE MATERIALS INC       2,1437.00       IRWD Check       Reconcile         127204       12-May-22       CALIFORNA BARICADE RENTAL, INC.       2,1437.00       IRWD Check       Reconcile         127207       12-May-22       CHAN, HENRY       2,205.45       IRWD Check       Reconcile         127207       12-May-22       CHAN, HENRY       3,277.26       IRWD Check       Reconcile         127207       12-May-22       CHAN, HENRY       3,277.26       IRWD Check       Reconcile         127207       12-May-22       COAST EUMBING HEATING AND AIR, INC       3,941.46       IRWD Check       Reconcile         127211  |              | -            |  | ,              |            |            |
| 427198         12-May-22         BLACK & VEATCH CORPORTION         36,440.00         IRWD Check         Reconcile           427199         12-May-22         BLACK & VEATCH CORPORTION         36,491.75         IRWD Check         Reconcile           427200         12-May-22         BLACK & VEATCH CORPORTION (VEST) INC.         21,315.63         IRWD Check         Reconcile           427201         12-May-22         BLICK & VEATCH CORPORTION SAFETY LABORATORY OF CALFORNIA INC         2,313.4         IRWD Check         Reconcile           427203         12-May-22         CWELLS PIPUINE MATERIALS INC         21,415.63         IRWD Check         Reconcile           427204         12-May-22         CARDOR NUK SALES LUC         20,312.57         IRWD Check         Reconcile           427205         12-May-22         CHAW TECH INTERNATIONAL INC         2,377.26         IRWD Check         Reconcile           427206         12-May-22         CHEM TECH INTERNATIONAL INC         3,377.26         IRWD Check         Reconcile           427210         12-May-22         COAST PLUMBING HEATING AND AIR, INC         3,490.66         IRWD Check         Reconcile           427211         12-May-22         COAST PLUMBING HEATING AND AIR, INC         3,490.66         IRWD Check         Reconcile           427212 <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> |              | -            |  |                |            |            |
| 1427199         12-May-22         BIJ SERVICES AND SOLUTIONS (WEST) INC.         38, 949.17.5         IRWD Check         Reconcile           127200         12-May-22         BIJ SERVICES AND SOLUTIONS (WEST) INC.         51, 980.00         IRWD Check         Reconcile           127202         12-May-22         CWELLS PIPELINE MATERIALS INC         1, 131.5.63         IRWD Check         Reconcile           127202         12-May-22         CALIFORNIA BARKICADE RENTAL, INC.         12, 1437.00         IRWD Check         Reconcile           127204         12-May-22         CALIFORNIA BARKICADE RENTAL, INC.         12, 1437.00         IRWD Check         Reconcile           127205         12-May-22         CDW GOVERNMENT LLC         20, 192.57         IRWD Check         Reconcile           127206         12-May-22         CHM TERNATIONAL INC         3, 277.26         IRWD Check         Reconcile           427209         12-May-22         CONSTAL OCCUPATIONAL INC         300         IRWD Check         Reconcile           427211         12-May-22         CONSTAL OCCUPATIONAL INC         300         IRWD Check         Reconcile           427212         12-May-22         CONSTAL OCCUPATIONAL MEDICAL GROUP, INC.         300         IRWD Check         Reconcile           427211         12-May-22   |              | -            |  |                |            |            |
| 427200         12-May-22         BUS LERVICES AND SOLUTIONS (WEST) INC.         51,800.00         IRWD Check         Reconcile           427201         12-May-22         BURLINGTON SAFETY LABORATORY OF CALIFORNIA INC         2,231.34         IRWD Check         Reconcile           427203         12-May-22         CWELS PIPELINE MATERINALS INC         1,315.63         IRWD Check         Reconcile           427203         12-May-22         CABLOR BURK SALES LLC         28.83         IRWD Check         Reconcile           427205         12-May-22         CHEN KSALES LLC         29.83.1         IRWD Check         Reconcile           427206         12-May-22         CHAR TERN KI SALES LLC         20.54.5         IRWD Check         Reconcile           427207         12-May-22         CHAR TERN KI SALES LLC         2,05.4.5         IRWD Check         Reconcile           427208         12-May-22         CHARTON INC         3,277.26         IRWD Check         Reconcile           427210         12-May-22         CONST PLUMBING HEATING AND AIR, INC         30         IRWD Check         Reconcile           427211         12-May-22         CONSTELLATION NEWERERGY, INC.         300         IRWD Check         Reconcile           427212         12-May-22         CORE MAIN LP <td< td=""><td></td><td>-</td><td>-</td><td></td><td></td><td></td></td<>                   |              | -            | -  |                |            |            |
| 427201         12-May-22         BURUNGTON SAFETY LABORATORY OF CALIFORNIA INC         2,231.34         IRWD Check         Reconcile           427202         12-May-22         CWELLS PIPELINE MATERIALS INC         1,315.63         IRWD Check         Reconcile           427204         12-May-22         CALIFONNIA BARRICADE RENTAL, INC.         21,437.00         IRWD Check         Reconcile           427205         12-May-22         CANBON BULK SALES LIC         20,192.57         IRWD Check         Reconcile           427206         12-May-22         CHAN, HENRY         2,205.45         IRWD Check         Reconcile           427207         12-May-22         CHAN TENTIONAL INC         3,277.26         IRWD Check         Reconcile           427208         12-May-22         CIMARON ENERGY, INC         1,508.50         IRWD Check         Reconcile           427210         12-May-22         COASTAL OCCUPATIONAL MEDICAL GROUP, INC.         300         IRWD Check         Reconcile           427211         12-May-22         COASTAL OCCUPATIONAL MEDICAL GROUP, INC.         300         IRWD Check         Reconcile           427214         12-May-22         CORELOGIC INC         100.20         IRWD Check         Reconcile           427215         12-May-22         CORELOGIC INC  |              | -            |  |                |            |            |
| 427202         12-May-22         CWELIS PIELINE MATERIALS INC         1.315.63         IRWD Check         Reconcile           427203         12-May-22         CALIFORNIA BARRICADE RENTAL, INC.         21.437.00         IRWD Check         Reconcile           427204         12-May-22         CARBON BULIS SALES LLC         28.31         IRWD Check         Reconcile           427205         12-May-22         CHAN HENRY         2.052.57         IRWD Check         Reconcile           427207         12-May-22         CHAN TECH INTERNATIONAL INC         2.075.45         IRWD Check         Reconcile           427208         12-May-22         CIMA TECH INTERNATIONAL INC         1.508.50         IRWD Check         Reconcile           427210         12-May-22         COAST PLUMBING HEATING AND AR, INC         300         IRWD Check         Reconcile           427211         12-May-22         COAST PLUMBING HEATING AND AR, INC         300         IRWD Check         Reconcile           427214         12-May-22         CONSTELLATION NEWENERGY, INC.         300         IRWD Check         Reconcile           427215         12-May-22         COTONSTELLATION NEWENERGY, INC.         30.00         IRWD Check         Reconcile           427214         12-May-22         CORELOGIC INC  |              |              |  |                |            |            |
| 427203         12-May-22         CAUFORNIA BARICADE RENTAL, INC.         21,437.00         IRWD Check         Reconcile           427204         12-May-22         COW GOVERNMENT LLC         236.31         IRWD Check         Reconcile           427205         12-May-22         CDW GOVERNMENT LLC         2,025.45         IRWD Check         Reconcile           427206         12-May-22         CHAN, HENRY         2,205.45         IRWD Check         Reconcile           427207         12-May-22         CHAN, HENRY         2,205.45         IRWD Check         Reconcile           427208         12-May-22         CHARTON ENERGY, INC         1,508.50         IRWD Check         Reconcile           427210         12-May-22         COASTAL OCCUPATIONAL MEDICAL GROUP, INC.         300         IRWD Check         Reconcile           427211         12-May-22         COASTAL OCCUPATIONAL MEDICAL GROUP, INC.         300         IRWD Check         Reconcile           427214         12-May-22         CORE & MAIN LP         9,304.34         IRWD Check         Reconcile           427214         12-May-22         CORE & MAIN LP         9,304.34         IRWD Check         Reconcile           427214         12-May-22         CORE & MAIN LP         10.00         IRWD Check  |              | -            |  |                |            |            |
| 427204         12-May-22         CARBON BULK SALES LLC         258.31         IRWD Check         Reconcile           427205         12-May-22         CDW GOVERNMENT LLC         20,192.57         IRWD Check         Reconcile           427207         12-May-22         CHAN, HENRY         2,205.45         IRWD Check         Reconcile           427207         12-May-22         CHAN RENA TIONAL INC         3,277.26         IRWD Check         Reconcile           427208         12-May-22         CIMARRON ENERGY, INC         1,598.50         IRWD Check         Reconcile           427210         12-May-22         COAST PLUMBING HEATING AND AIR, INC         849         IRWD Check         Reconcile           427211         12-May-22         COAST PLUMBING HEATING AND AIR, INC         300         IRWD Check         Reconcile           427211         12-May-22         COAST PLUMBING HEATING AND AIR, INC         40,668.38         IRWD Check         Reconcile           427211         12-May-22         COAST PLUMBING HEATING AND AIR, INC         40,668.38         IRWD Check         Reconcile           427212         12-May-22         CORTOCOMANICATIONS, INC.         3,000.00         IRWD Check         Reconcile           427215         12-May-22         COX COMMUNICATIONS, INC.   |              | -            |  |                |            |            |
| 427205         12-May-22         CDW GOVERNMENT LLC         20,192.57         IRWD Check         Reconcile           427206         12-May-22         CHAN, HENRY         2,205.45         IRWD Check         Reconcile           427208         12-May-22         CHM RECH INTERNATIONAL INC         3,277.26         IRWD Check         Reconcile           427209         12-May-22         CIMARRON ENERGY, INC         1.508.50         IRWD Check         Reconcile           427210         12-May-22         COAST PLUMBING HEATING AND AIR, INC         849         IRWD Check         Reconcile           427211         12-May-22         COAST PLUMBING HEATING AND AIR, INC         849         IRWD Check         Reconcile           427212         12-May-22         COAST PLUMBING HEATING AND AIR, INC         849         IRWD Check         Reconcile           427213         12-May-22         COAST PLUMDINCENERGY, INC.         300         IRWD Check         Reconcile           427214         12-May-22         CORE & MAIN LP         10.01         IRWD Check         Reconcile           427215         12-May-22         CORTON POINT DESIGN, INC.         3.209.26         IRWD Check         Reconcile           427216         12-May-22         CDX COMMUNICATIONS, INC.         1.06.10   |              | -            | -  |                |            |            |
| 427206         12-May-22         CHAN, HENRY         2,205.45         IRWD Check         Negotiabi           427207         12-May-22         CHAR MECH INTERNATIONAL INC         3,277.26         IRWD Check         Reconcile           427208         12-May-22         CIMARON ENERGY, INC         1,508.50         IRWD Check         Reconcile           427209         12-May-22         COAST PLUMBING HEATING AND AIR, INC         849         IRWD Check         Reconcile           427210         12-May-22         COAST AL OCUPATIONAL MEDICAL GROUP, INC.         300         IRWD Check         Reconcile           427211         12-May-22         CORSTELLATION NEWENERGY, INC.         40,668.33         IRWD Check         Reconcile           427214         12-May-22         CORELOGIC INC         102.02         IRWD Check         Reconcile           427215         12-May-22         CORTON POINT DESIGN, INC.         8,209.26         IRWD Check         Reconcile           427216         12-May-22         CORTON NONUNICATIONS, INC.         3,000.00         IRWD Check         Reconcile           427217         12-May-22         CR & RINCORPORATED         1,06.10         IRWD Check         Reconcile           427218         12-May-22         D C FROST ASSOCIATES, INC         1,947.40   |              | -            |  |                |            |            |
| 427207         12-May-22         CHEM TECH INTERNATIONAL INC         3,277.26         IRWD Check         Reconcile           427208         12-May-22         CIMARRON ENERGY, INC         1,508.50         IRWD Check         Reconcile           427200         12-May-22         CITO TRVINE         55,584.00         IRWD Check         Reconcile           427210         12-May-22         COAST FLUMBING HEATING AND AIR, INC         849         IRWD Check         Reconcile           427211         12-May-22         COASTAL OCCUPATIONAL MEDICAL GROUP, INC.         300         IRWD Check         Reconcile           427213         12-May-22         CORELOGIC INC         300.34         IRWD Check         Reconcile           427214         12-May-22         CORELOGIC INC         10.20.21         IRWD Check         Reconcile           427215         12-May-22         CORTONS POINT DESIGN, INC.         278.62         IRWD Check         Reconcile           427217         12-May-22         COX COMMUNICATIONS, INC.         278.62         IRWD Check         Reconcile           427219         12-May-22         COX COMMUNICATIONS, INC.         1,017.44         IRWD Check         Reconcile           427219         12-May-22         D & H WATER SYSTEMS INC.         1,017.44   |              |              |  |                |            |            |
| 427208         12-May-22         CIMARRON ENERGY, INC         1,508.50         IRWD Check         Reconcile           427209         12-May-22         CITY OF IRVINE         55,854.00         IRWD Check         Reconcile           427210         12-May-22         COASTAL OCCUPATIONAL MEDICAL GROUP, INC.         849         IRWD Check         Reconcile           427211         12-May-22         COASTAL OCCUPATIONAL MEDICAL GROUP, INC.         300         IRWD Check         Reconcile           427212         12-May-22         CONSTELLATION NEWENERGY, INC.         40,668.38         IRWD Check         Reconcile           427214         12-May-22         CORELOGIC INC         102.02         IRWD Check         Reconcile           427215         12-May-22         CORELOGIC INC         102.02         IRWD Check         Reconcile           427217         12-May-22         COR & RINCORPORATED         1,106.10         IRWD Check         Reconcile           427218         12-May-22         D & H WATER SYSTEMS INC.         1,947.40         IRWD Check         Reconcile           427221         12-May-22         D & H WATER SYSTEMS INC.         1,947.40         IRWD Check         Reconcile           427221         12-May-22         D & H WATER SYSTEMS INC.         1,947.40   |              | -            | -  |                |            | -          |
| 427209         12-May-22         CITY OF IRVINE         55,854.00         IRWD Check         Reconcile           427210         12-May-22         COAST PLUMBING HEATING AND AIR, INC         349         IRWD Check         Reconcile           427211         12-May-22         COAST PLUMBING HEATINGAL MEDICAL GROUP, INC.         300         IRWD Check         Reconcile           427212         12-May-22         CONSTELLATION NEWENERGY, INC.         40,668.38         IRWD Check         Reconcile           427213         12-May-22         CORE & MAIN IP         9,304.34         IRWD Check         Reconcile           427214         12-May-22         CORE & MAIN IP         9,304.34         IRWD Check         Reconcile           427215         12-May-22         CORE & MAIN IP         28,209.26         IRWD Check         Reconcile           427216         12-May-22         COX COMMUNICATIONS, INC.         278.62         IRWD Check         Reconcile           427217         12-May-22         COX COMMUNICATIONS, INC.         1,017.24         IRWD Check         Reconcile           427219         12-May-22         COX COMMUNICATIONS, INC.         1,947.40         IRWD Check         Reconcile           427220         12-May-22         DC KROST ASSOCIATES, INC.         1,947.40 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>                             |              |              |  |                |            |            |
| 427210       12-May-22       COAST PLUMBING HEATING AND AIR, INC       849       IRWD Check       Reconcile         427211       12-May-22       COAST AL OCCUPATIONAL MEDICAL GROUP, INC.       300       IRWD Check       Negotiabi         427212       12-May-22       CONSTELLATION NEWENERGY, INC.       40,668.38       IRWD Check       Reconcile         427213       12-May-22       CORE & MAIN LP       9,304.34       IRWD Check       Reconcile         427214       12-May-22       CORELOGIC INC       10.02       IRWD Check       Reconcile         427215       12-May-22       COX COMMUNICATIONS, INC.       278.62       IRWD Check       Reconcile         427217       12-May-22       COX COMMUNICATIONS, INC.       278.62       IRWD Check       Reconcile         427217       12-May-22       CX & R INCORPORATED       1,106.10       IRWD Check       Reconcile         427219       12-May-22       D& H WATER SYSTEMS INC.       1,947.40       IRWD Check       Reconcile         427220       12-May-22       DC KROST ASSOCIATES, INC       1,947.40       IRWD Check       Reconcile         427221       12-May-22       DE M AUALAN VOTAVA       3,650.00       IRWD Check       Reconcile         427222       12-May-22   |              | -            |  |                |            |            |
| 427211         12-May-22         COASTAL OCCUPATIONAL MEDICAL GROUP, INC.         300         IRWD Check         Negotiabi           427212         12-May-22         CONSTELLATION NEWENERGY, INC.         40,668.38         IRWD Check         Reconcile           427213         12-May-22         COREL & MAIN LP         9,304.34         IRWD Check         Reconcile           427214         12-May-22         CORELOGIC INC         102.02         IRWD Check         Reconcile           427215         12-May-22         CORTONS POINT DESIGN, INC.         8,209.26         IRWD Check         Reconcile           427216         12-May-22         COX COMMUNICATIONS, INC.         278.62         IRWD Check         Reconcile           427217         12-May-22         CC & & R INCORPORATED         1,106.10         IRWD Check         Reconcile           427219         12-May-22         CULIGAN OF SANTA ANA         3,000.00         IRWD Check         Reconcile           427220         12-May-22         D & H WATER SYSTEMS INC.         1,947.40         IRWD Check         Reconcile           427221         12-May-22         D & K WATER SYSTEMS INC.         1,947.40         IRWD Check         Reconcile           427222         12-May-22         D & K WATER SYSTEMS INC.         1,947.40 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>                             |              |              |  |                |            |            |
| 427212       12-May-22       CONSTELLATION NEWENERGY, INC.       40,668.38       IRWD Check       Reconcile         427213       12-May-22       CORE & MAIN LP       9,304.34       IRWD Check       Reconcile         427214       12-May-22       CORE & MAIN LP       9,304.34       IRWD Check       Reconcile         427214       12-May-22       CORTONS POINT DESIGN, INC.       8,209.26       IRWD Check       Reconcile         427215       12-May-22       COX COMMUNICATIONS, INC.       278.62       IRWD Check       Reconcile         427217       12-May-22       COX COMMUNICATIONS, INC.       278.62       IRWD Check       Reconcile         427217       12-May-22       CULIGAN OF SANTA ANA       3,000.00       IRWD Check       Reconcile         427219       12-May-22       DC FROST ASSOCIATES, INC       1,017.24       IRWD Check       Reconcile         427221       12-May-22       DC KNAAGEMENT LLC       158.11       IRWD Check       Reconcile         427224       12-May-22       DEL MARKETING LP       6,195.64       IRWD Check       Reconcile         427225       12-May-22       DEL MARKETING LP       1,14.53       IRWD Check       Reconcile         427225       12-May-22       DEL MARKETING LP  |              | -            |  |                |            |            |
| 427213       12-May-22       CORE & MAIN LP       9,304.34       IRWD Check       Reconcile         427214       12-May-22       CORELOGIC INC       102.02       IRWD Check       Reconcile         427215       12-May-22       COTTONS POINT DESIGN, INC.       8,209.26       IRWD Check       Reconcile         427215       12-May-22       COX COMMUNICATIONS, INC.       278.62       IRWD Check       Reconcile         427217       12-May-22       COX COMMUNICATIONS, INC.       278.62       IRWD Check       Reconcile         427218       12-May-22       CULIIGAN OF SANTA ANA       3,000.00       IRWD Check       Reconcile         427219       12-May-22       D & H WATER SYSTEMS INC.       1,017.24       IRWD Check       Reconcile         427221       12-May-22       D C FROST ASSOCIATES, INC       1,947.40       IRWD Check       Reconcile         427221       12-May-22       D EAN ALLAN VOTAVA       3,450.00       IRWD Check       Reconcile         427223       12-May-22       DEX MEDIA, INC.       41       IRWD Check       Reconcile         427224       12-May-22       DEX MEDIA, INC.       152.       IRWD Check       Reconcile         427225       12-May-22       DEX MEDIA, INC.       152. <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td>  |              |              | -  |                |            |            |
| 427214         12-May-22         CORELOGIC INC         102.02         IRWD Check         Reconcile           427215         12-May-22         COTTONS POINT DESIGN, INC.         8,209.26         IRWD Check         Reconcile           427216         12-May-22         COX COMMUNICATIONS, INC.         278.62         IRWD Check         Reconcile           427216         12-May-22         COX COMMUNICATIONS, INC.         278.62         IRWD Check         Reconcile           427218         12-May-22         CULLIGAN OF SANTA ANA         3,000.00         IRWD Check         Reconcile           427219         12-May-22         D & H WATER SYSTEMS INC.         1,017.24         IRWD Check         Reconcile           427220         12-May-22         DC FROST ASSOCIATES, INC         1,947.40         IRWD Check         Reconcile           427221         12-May-22         DC S MANAGEMENT LLC         158.12         IRWD Check         Reconcile           427223         12-May-22         DEAN ALLAN VOTAVA         3,450.00         IRWD Check         Reconcile           427224         12-May-22         DELM ARKETING LP         15.2         IRWD Check         Reconcile           427225         12-May-22         DEX MEDIA, INC.         41         IRWD Check         Recon   |              | -            |  |                |            |            |
| 427215         12-May-22         COTTONS POINT DESIGN, INC.         8,209.26         IRWD Check         Reconcile           427216         12-May-22         COX COMMUNICATIONS, INC.         278.62         IRWD Check         Reconcile           427217         12-May-22         CR & RINCORPORATED         1,106.10         IRWD Check         Reconcile           427217         12-May-22         CULLIGAN OF SANTA ANA         3,000.00         IRWD Check         Reconcile           427219         12-May-22         D & H WATER SYSTEMS INC.         1,017.24         IRWD Check         Reconcile           427220         12-May-22         DC FROST ASSOCIATES, INC         1,947.40         IRWD Check         Reconcile           427221         12-May-22         DC S MANAGEMENT LLC         158.12         IRWD Check         Reconcile           427223         12-May-22         DEAN ALLAN VOTAVA         3,450.00         IRWD Check         Reconcile           427224         12-May-22         DEX MALAN VOTAVA         3,450.00         IRWD Check         Reconcile           427225         12-May-22         DEX MALAN VOTAVA         3,450.00         IRWD Check         Reconcile           427224         12-May-22         DEX MALANEN VOTAVA         3,850.00         IRWD Check   |              | -            |  | ,              |            |            |
| 427216       12-May-22       COX COMMUNICATIONS, INC.       278.62       IRWD Check       Reconcile         427217       12-May-22       CR & RINCORPORATED       1,106.10       IRWD Check       Reconcile         427218       12-May-22       CULLIGAN OF SANTA ANA       3,000.00       IRWD Check       Reconcile         427219       12-May-22       D& H WATER SYSTEMS INC.       1,917.24       IRWD Check       Reconcile         427220       12-May-22       D C FROST ASSOCIATES, INC       1,947.40       IRWD Check       Reconcile         427221       12-May-22       DCS MANAGEMENT LLC       158.12       IRWD Check       Reconcile         427223       12-May-22       DELM MARKETING LP       6,195.64       IRWD Check       Reconcile         427224       12-May-22       DELM MARKETING LP       15.2       IRWD Check       Reconcile         427225       12-May-22       DEX MEDIA, INC.       41       IRWD Check       Reconcile         427226       12-May-22       DEX MEDIA, INC.       15.2       IRWD Check       Reconcile         427227       12-May-22       DON WILSON BUILDERS       114.53       IRWD Check       Reconcile         427229       12-May-22       DRAKE TRAFFIC CONTROL SERVICES INC <td< td=""><td></td><td></td><td></td><td></td><td></td><td>Reconciled</td></td<>  |              |              |  |                |            | Reconciled |
| 42721712-May-22CR & R INCORPORATED1,106.10IRWD CheckReconcile42721812-May-22CULIIGAN OF SANTA ANA3,000.00IRWD CheckReconcile42721912-May-22D & H WATER SYSTEMS INC.1,017.24IRWD CheckReconcile42721012-May-22D & FROST ASSOCIATES, INC1,947.40IRWD CheckReconcile42722112-May-22DC S MANAGEMENT LLC158.12IRWD CheckReconcile42722312-May-22DELM ARKETING LP6,195.64IRWD CheckReconcile42722412-May-22DELM ARKETING LP15.2IRWD CheckReconcile42722512-May-22DELM ARKETING LP15.2IRWD CheckReconcile42722612-May-22DEX MEDIA, INC.114.53IRWD CheckReconcile42722712-May-22DN WILSON BUILDERS114.53IRWD CheckReconcile42722412-May-22DRIVELINES INC3,885.00IRWD CheckReconcile42723012-May-22DRIVELINES INC173.88IRWD CheckReconcile42723012-May-22ENVIRONMENTAL RESOURCE ASSOCIATES2,778.70IRWD CheckReconcile42723112-May-22ENVIRONMENTAL RESOURCE ASSOCIATES471.24IRWD CheckReconcile42723112-May-22ENVIRONMENTAL RESOURCE ASSOCIATES471.24IRWD CheckReconcile42723412-May-22ENVIRONMENTAL RESOURCE ASSOCIATES471.24IRWD CheckReconcile42723412-May-2  |              |              |  |                |            | Reconciled |
| 42721812-May-22CULLIGAN OF SANTA ANA3,000.00IRWD CheckReconcile42721912-May-22D & H WATER SYSTEMS INC.1,017.24IRWD CheckReconcile42722012-May-22D CF ROST ASSOCIATES, INC1,947.40IRWD CheckReconcile42722112-May-22DCS MANAGEMENT LLC158.12IRWD CheckReconcile42722312-May-22DEAN ALLAN VOTAVA3,450.00IRWD CheckReconcile42722412-May-22DELL MARKETING IP6,195.64IRWD CheckReconcile42722512-May-22DEX MEDIA, INC.41IRWD CheckReconcile42722612-May-22DHEDA, SHEHREEN15.2IRWD CheckReconcile42722612-May-22DOR WILSON BUILDERS114.53IRWD CheckReconcile42722912-May-22DRAKE TRAFFIC CONTROL SERVICES INC3,885.00IRWD CheckReconcile42722912-May-22DRIVELINES INC173.88IRWD CheckReconcile42723012-May-22ENDRESS AND HAUSER INC2,778.70IRWD CheckReconcile42723112-May-22ENDRESS AND HAUSER INC2,0954.02IRWD CheckReconcile42723312-May-22ENDRIES AND HAUSER INC700IRWD CheckReconcile42723412-May-22ENDRIES AND HAUSER INC700IRWD CheckReconcile42723412-May-22ENDRIES AND HAUSER INC700IRWD CheckReconcile42723412-May-22EUROFINS ENVIRONME   |              | -            |  |                |            | Reconciled |
| 42721912-May-22D & H WATER SYSTEMS INC.1,017.24IRWD CheckReconcile42722012-May-22DC FROST ASSOCIATES, INC1,947.40IRWD CheckReconcile42722112-May-22DCS MANAGEMENT LLC158.12IRWD CheckReconcile42722212-May-22DEAN ALLAN VOTAVA3,450.00IRWD CheckReconcile42722312-May-22DEAN ALLAN VOTAVA3,450.00IRWD CheckReconcile42722412-May-22DEX MEDIA, INC.41IRWD CheckReconcile42722512-May-22DHEDA, SHEHREEN15.2IRWD CheckReconcile42722612-May-22DON WILSON BUILDERS114.53IRWD CheckReconcile42722712-May-22DRKE TRAFFIC CONTROL SERVICES INC3,885.00IRWD CheckReconcile42722912-May-22DRIVELINES INC173.88IRWD CheckReconcile42723012-May-22ENDRESS AND HAUSER INC20,954.02IRWD CheckReconcile42723112-May-22ENORESS AND HAUSER INC2020,954.02IRWD CheckReconcile42723312-May-22ENORINENTAL RESOURCE ASSOCIATES471.24IRWD CheckReconcile42723412-May-22EUROFINS EATON ANALYTICAL, INC.700IRWD CheckReconcile42723412-May-22EUROFINS ENVIRONMENT TESTING AMERICA HOLDINGS, INC.1,722.00IRWD CheckReconcile42723512-May-22EUROFINS ENVIRONMENT TESTING AMERICA HOLDINGS, INC.1,722.00IR   |              |              |  |                |            | Reconciled |
| 42722012-May-22DC FROST ASSOCIATES, INC1,947.40IRWD CheckReconcile42722112-May-22DCS MANAGEMENT LLC158.12IRWD CheckReconcile42722212-May-22DEAN ALLAN VOTAVA3,450.00IRWD CheckReconcile42722312-May-22DELL MARKETING LP6,195.64IRWD CheckReconcile42722412-May-22DEX MEDIA, INC.41IRWD CheckReconcile42722512-May-22DEX MEDIA, INC.41IRWD CheckReconcile42722612-May-22DHEDA, SHEHREEN15.2IRWD CheckReconcile42722712-May-22DON WILSON BUILDERS114.53IRWD CheckReconcile42722812-May-22DRAKE TRAFFIC CONTROL SERVICES INC3,885.00IRWD CheckReconcile42722912-May-22DRIVELINES INC173.88IRWD CheckReconcile42723012-May-22ENDRESS AND HAUSER INC125IRWD CheckReconcile42723112-May-22ENGINEERING SOLUTIONS, LLC20,954.02IRWD CheckReconcile42723312-May-22ENVIRONMENTAL RESOURCE ASSOCIATES471.24IRWD CheckReconcile42723412-May-22EUROFINS EATON ANALYTICAL, INC.700IRWD CheckReconcile42723512-May-22EUROFINS ENVIRONMENT TESTING AMERICA HOLDINGS, INC.1,722.00IRWD CheckReconcile42723612-May-22FARRELL & ASSOCIATES197.76IRWD CheckReconcile427236 <td< td=""><td></td><td></td><td></td><td></td><td></td><td>Reconciled</td></td<>   |              |              |  |                |            | Reconciled |
| 42722112-May-22DCS MANAGEMENT LLC158.12IRWD CheckReconcile42722212-May-22DEAN ALLAN VOTAVA3,450.00IRWD CheckReconcile42722312-May-22DELL MARKETING LP6,195.64IRWD CheckReconcile42722412-May-22DEX MEDIA, INC.41IRWD CheckReconcile42722512-May-22DHEDA, SHEHREEN15.2IRWD CheckReconcile42722612-May-22DON WILSON BUILDERS114.53IRWD CheckReconcile42722712-May-22DRAKE TRAFFIC CONTROL SERVICES INC3,885.00IRWD CheckReconcile42722812-May-22DRIVELINES INC173.88IRWD CheckReconcile42723012-May-22EHS INTERNATIONAL,INC125IRWD CheckReconcile42723112-May-22ENDRESS AND HAUSER INC20,954.02IRWD CheckReconcile42723212-May-22ENVIRONMENTAL RESOURCE ASSOCIATES471.24IRWD CheckReconcile42723312-May-22EUROFINS EATON ANALYTICAL, INC.700IRWD CheckReconcile42723412-May-22EUROFINS ENVIRONMENT TESTING AMERICA HOLDINGS, INC.1,722.00IRWD CheckReconcile42723512-May-22FARRELL & ASSOCIATES197.76IRWD CheckReconcile42723612-May-22FEDEX NATIONAL LTL, INC598.37IRWD CheckReconcile42723612-May-22FEDEX NATIONAL LTL, INC598.37IRWD CheckReconcile427236 <td></td> <td></td> <td></td> <td></td> <td></td> <td>Reconciled</td>   |              |              |  |                |            | Reconciled |
| 42722212-May-22DEAN ALLAN VOTAVA3,450.00IRWD CheckReconcide42722312-May-22DELL MARKETING LP6,195.64IRWD CheckReconcide42722412-May-22DEX MEDIA, INC.41IRWD CheckReconcide42722512-May-22DHEDA, SHEHREEN15.2IRWD CheckNegotiabl42722612-May-22DON WILSON BUILDERS114.53IRWD CheckReconcide42722712-May-22DRAKE TRAFFIC CONTROL SERVICES INC3,885.00IRWD CheckReconcide42722912-May-22DRIVELINES INC173.88IRWD CheckReconcide42722912-May-22ENDRESS AND HAUSER INC2,778.70IRWD CheckReconcide42723112-May-22ENDRESS AND HAUSER INC2,778.70IRWD CheckReconcide42723212-May-22ENVIRONMENTAL RESOURCE ASSOCIATES471.24IRWD CheckReconcide42723312-May-22EUROFINS EATON ANALYTICAL, INC.700IRWD CheckReconcide42723412-May-22EUROFINS ENVIRONMENT TESTING AMERICA HOLDINGS, INC.1,722.00IRWD CheckReconcide42723512-May-22FARRELL & ASSOCIATES197.76IRWD CheckReconcide42723612-May-22FEDEX NATIONAL LTL, INC598.37IRWD CheckReconcide42723612-May-22FEDEX NATIONAL LTL, INC598.37IRWD CheckReconcide42723612-May-22FEDEX NATIONAL LTL, INC598.37IRWD CheckReconcide   |              | 12-May-22    | DC FROST ASSOCIATES, INC                                 |                |            | Reconciled |
| 42722312-May-22DELL MARKETING LP6,195.64IRWD CheckReconcile42722412-May-22DEX MEDIA, INC.41IRWD CheckReconcile42722512-May-22DHEDA, SHEHREEN15.2IRWD CheckNegotiabl42722612-May-22DON WILSON BUILDERS114.53IRWD CheckReconcile42722712-May-22DRAKE TRAFFIC CONTROL SERVICES INC3,885.00IRWD CheckReconcile42722812-May-22DRIVELINES INC173.88IRWD CheckReconcile42723012-May-22EHS INTERNATIONAL,INC125IRWD CheckReconcile42723112-May-22ENGINEERING SOLUTIONS, LLC20,954.02IRWD CheckReconcile42723312-May-22ENVIRONMENTAL RESOURCE ASSOCIATES471.24IRWD CheckReconcile42723412-May-22EUROFINS EATON ANALYTICAL, INC.700IRWD CheckReconcile42723512-May-22EUROFINS ENVIRONMENT TESTING AMERICA HOLDINGS, INC.1,722.00IRWD CheckReconcile42723512-May-22FARRELL & ASSOCIATES197.76IRWD CheckReconcile42723612-May-22FARRELL & ASSOCIATES197.76IRWD CheckReconcile42723612-May-22FEDEX NATIONAL LT, INC598.37IRWD CheckReconcile42723612-May-22FEDEX NATIONAL LT, INC598.37IRWD CheckReconcile42723612-May-22FEDEX NATIONAL LT, INC598.37IRWD CheckReconcile427   |              | 12-May-22    |  |                |            | Reconciled |
| 42722412-May-22DEX MEDIA, INC.41IRWD CheckReconcile42722512-May-22DHEDA, SHEHREEN15.2IRWD CheckNegotiabl42722612-May-22DON WILSON BUILDERS114.53IRWD CheckReconcile42722712-May-22DRAKE TRAFFIC CONTROL SERVICES INC3,885.00IRWD CheckReconcile42722812-May-22DRIVELINES INC173.88IRWD CheckReconcile42723012-May-22ENS INTERNATIONAL,INC125IRWD CheckReconcile42723112-May-22ENGINEERING SOLUTIONS, LLC20,954.02IRWD CheckReconcile42723312-May-22ENVIRONMENTAL RESOURCE ASSOCIATES471.24IRWD CheckReconcile42723412-May-22EUROFINS EATON ANALYTICAL, INC.700IRWD CheckReconcile42723512-May-22EUROFINS ENVIRONMENT TESTING AMERICA HOLDINGS, INC.1,722.00IRWD CheckReconcile42723512-May-22FEDEX NATIONAL LTL, INC598.37IRWD CheckReconcile42723612-May-22FEDEX NATIONAL LTL, INC598.37IRWD CheckReconcile   | 427222       | 12-May-22    |  | 3,450.00       | IRWD Check | Reconciled |
| 42722512-May-22DHEDA, SHEHREEN15.2IRWD CheckNegotiabl42722612-May-22DON WILSON BUILDERS114.53IRWD CheckReconcile42722712-May-22DRAKE TRAFFIC CONTROL SERVICES INC3,885.00IRWD CheckReconcile42722812-May-22DRIVELINES INC173.88IRWD CheckReconcile42722912-May-22EHS INTERNATIONAL,INC125IRWD CheckReconcile42723012-May-22ENDRESS AND HAUSER INC2,778.70IRWD CheckReconcile42723112-May-22ENGINEERING SOLUTIONS, LLC20,954.02IRWD CheckReconcile42723212-May-22ENVIRONMENTAL RESOURCE ASSOCIATES471.24IRWD CheckReconcile42723412-May-22EUROFINS EATON ANALYTICAL, INC.700IRWD CheckReconcile42723512-May-22EUROFINS ENVIRONMENT TESTING AMERICA HOLDINGS, INC.1,722.00IRWD CheckReconcile42723512-May-22FARRELL & ASSOCIATES197.76IRWD CheckReconcile42723612-May-22FDEX NATIONAL LTL, INC598.37IRWD CheckReconcile42723612-May-22FEDEX NATIONAL LTL, INC598.37IRWD CheckReconcile   | 427223       | 12-May-22    |  | 6,195.64       | IRWD Check | Reconciled |
| 42722612-May-22DON WILSON BUILDERS114.53IRWD CheckReconcile42722712-May-22DRAKE TRAFFIC CONTROL SERVICES INC3,885.00IRWD CheckReconcile42722812-May-22DRIVELINES INC173.88IRWD CheckReconcile42722912-May-22EHS INTERNATIONAL,INC125IRWD CheckReconcile42723012-May-22ENDRESS AND HAUSER INC2,778.70IRWD CheckReconcile42723112-May-22ENGINEERING SOLUTIONS, LLC20,954.02IRWD CheckReconcile42723212-May-22ENVIRONMENTAL RESOURCE ASSOCIATES471.24IRWD CheckReconcile42723312-May-22EUROFINS EATON ANALYTICAL, INC.700IRWD CheckReconcile42723412-May-22EUROFINS ENVIRONMENT TESTING AMERICA HOLDINGS, INC.1,722.00IRWD CheckReconcile42723512-May-22FARRELL & ASSOCIATES197.76IRWD CheckReconcile42723612-May-22FODE NATIONAL LTL, INC598.37IRWD CheckReconcile42723612-May-22FEDEX NATIONAL LTL, INC598.37IRWD CheckReconcile  | 427224       | 12-May-22    | DEX MEDIA, INC.  | 41             | IRWD Check | Reconciled |
| 42722712-May-22DRAKE TRAFFIC CONTROL SERVICES INC3,885.00IRWD CheckReconcile42722812-May-22DRIVELINES INC173.88IRWD CheckReconcile42722912-May-22EHS INTERNATIONAL,INC125IRWD CheckReconcile42723012-May-22ENDRESS AND HAUSER INC2,778.70IRWD CheckReconcile42723112-May-22ENGINEERING SOLUTIONS, LLC20,954.02IRWD CheckReconcile42723312-May-22ENVIRONMENTAL RESOURCE ASSOCIATES471.24IRWD CheckReconcile42723412-May-22EUROFINS EATON ANALYTICAL, INC.700IRWD CheckReconcile42723512-May-22EUROFINS ENVIRONMENT TESTING AMERICA HOLDINGS, INC.1,722.00IRWD CheckReconcile42723512-May-22FARRELL & ASSOCIATES197.76IRWD CheckReconcile42723612-May-22FEDEX NATIONAL LTL, INC598.37IRWD CheckReconcile42723612-May-22FEDEX NATIONAL LTL, INC598.37IRWD CheckReconcile  | 427225       | 12-May-22    | DHEDA, SHEHREEN  | 15.2           | IRWD Check | Negotiable |
| 42722812-May-22DRIVELINES INC173.88IRWD CheckReconcile42722912-May-22EHS INTERNATIONAL,INC125IRWD CheckReconcile42723012-May-22ENDRESS AND HAUSER INC2,778.70IRWD CheckReconcile42723112-May-22ENGINEERING SOLUTIONS, LLC20,954.02IRWD CheckReconcile42723212-May-22ENVIRONMENTAL RESOURCE ASSOCIATES471.24IRWD CheckReconcile42723312-May-22EUROFINS EATON ANALYTICAL, INC.700IRWD CheckReconcile42723412-May-22EUROFINS ENVIRONMENT TESTING AMERICA HOLDINGS, INC.1,722.00IRWD CheckReconcile42723512-May-22FARRELL & ASSOCIATES197.76IRWD CheckReconcile42723612-May-22FEDEX NATIONAL LTL, INC598.37IRWD CheckReconcile   | 427226       | 12-May-22    | DON WILSON BUILDERS                                      | 114.53         | IRWD Check | Reconciled |
| 42722912-May-22EHS INTERNATIONAL,INC125IRWD CheckReconcile42723012-May-22ENDRESS AND HAUSER INC2,778.70IRWD CheckReconcile42723112-May-22ENGINEERING SOLUTIONS, LLC20,954.02IRWD CheckReconcile42723212-May-22ENVIRONMENTAL RESOURCE ASSOCIATES471.24IRWD CheckReconcile42723312-May-22EUROFINS EATON ANALYTICAL, INC.700IRWD CheckReconcile42723412-May-22EUROFINS ENVIRONMENT TESTING AMERICA HOLDINGS, INC.1,722.00IRWD CheckReconcile42723512-May-22FARRELL & ASSOCIATES197.76IRWD CheckReconcile42723612-May-22FEDEX NATIONAL LTL, INC598.37IRWD CheckReconcile42723612-May-22FEDEX NATIONAL LTL, INC598.37IRWD CheckReconcile  | 427227       | 12-May-22    | DRAKE TRAFFIC CONTROL SERVICES INC                       | 3,885.00       | IRWD Check | Reconciled |
| 42723012-May-22ENDRESS AND HAUSER INC2,778.70IRWD CheckReconcile42723112-May-22ENGINEERING SOLUTIONS, LLC20,954.02IRWD CheckReconcile42723212-May-22ENVIRONMENTAL RESOURCE ASSOCIATES471.24IRWD CheckReconcile42723312-May-22EUROFINS EATON ANALYTICAL, INC.700IRWD CheckReconcile42723412-May-22EUROFINS ENVIRONMENT TESTING AMERICA HOLDINGS, INC.1,722.00IRWD CheckReconcile42723512-May-22FARRELL & ASSOCIATES197.76IRWD CheckReconcile42723612-May-22FDEX NATIONAL LTL, INC598.37IRWD CheckReconcile42723612-May-22FDEX NATIONAL LTL, INC598.37IRWD CheckReconcile  | 427228       | 12-May-22    | DRIVELINES INC   | 173.88         | IRWD Check | Reconciled |
| 42723112-May-22ENGINEERING SOLUTIONS, LLC20,954.02IRWD CheckReconcile42723212-May-22ENVIRONMENTAL RESOURCE ASSOCIATES471.24IRWD CheckReconcile42723312-May-22EUROFINS EATON ANALYTICAL, INC.700IRWD CheckReconcile42723412-May-22EUROFINS ENVIRONMENT TESTING AMERICA HOLDINGS, INC.1,722.00IRWD CheckReconcile42723512-May-22FARRELL & ASSOCIATES197.76IRWD CheckReconcile42723612-May-22FDEX NATIONAL LTL, INC598.37IRWD CheckReconcile42723612-May-22FDEX NATIONAL LTL, INC598.37IRWD CheckReconcile  | 427229       | 12-May-22    | EHS INTERNATIONAL,INC                                    | 125            | IRWD Check | Reconciled |
| 42723212-May-22ENVIRONMENTAL RESOURCE ASSOCIATES471.24IRWD CheckReconcile42723312-May-22EUROFINS EATON ANALYTICAL, INC.700IRWD CheckReconcile42723412-May-22EUROFINS ENVIRONMENT TESTING AMERICA HOLDINGS, INC.1,722.00IRWD CheckReconcile42723512-May-22FARRELL & ASSOCIATES197.76IRWD CheckReconcile42723612-May-22FEDEX NATIONAL LTL, INC598.37IRWD CheckReconcile  | 427230       | 12-May-22    | ENDRESS AND HAUSER INC                                   | 2,778.70       | IRWD Check | Reconciled |
| 42723312-May-22EUROFINS EATON ANALYTICAL, INC.700IRWD CheckReconcile42723412-May-22EUROFINS ENVIRONMENT TESTING AMERICA HOLDINGS, INC.1,722.00IRWD CheckReconcile42723512-May-22FARRELL & ASSOCIATES197.76IRWD CheckReconcile42723612-May-22FEDEX NATIONAL LTL, INC598.37IRWD CheckReconcile42723612-May-22FEDEX NATIONAL LTL, INC598.37IRWD CheckReconcile  | 427231       | 12-May-22    | ENGINEERING SOLUTIONS, LLC                               | 20,954.02      | IRWD Check | Reconciled |
| 42723312-May-22EUROFINS EATON ANALYTICAL, INC.700IRWD CheckReconcile42723412-May-22EUROFINS ENVIRONMENT TESTING AMERICA HOLDINGS, INC.1,722.00IRWD CheckReconcile42723512-May-22FARRELL & ASSOCIATES197.76IRWD CheckReconcile42723612-May-22FEDEX NATIONAL LTL, INC598.37IRWD CheckReconcile42723612-May-22FEDEX NATIONAL LTL, INC598.37IRWD CheckReconcile  | 427232       | 12-May-22    | ENVIRONMENTAL RESOURCE ASSOCIATES                        | 471.24         | IRWD Check | Reconciled |
| 42723412-May-22EUROFINS ENVIRONMENT TESTING AMERICA HOLDINGS, INC.1,722.00IRWD CheckReconcile42723512-May-22FARRELL & ASSOCIATES197.76IRWD CheckReconcile42723612-May-22FEDEX NATIONAL LTL, INC598.37IRWD CheckReconcile42723712-May-22FEDEX NATIONAL LTL, INC598.37IRWD CheckReconcile  | 427233       | -            | EUROFINS EATON ANALYTICAL, INC.                          | 700            | IRWD Check | Reconciled |
| 42723512-May-22FARRELL & ASSOCIATES197.76IRWD CheckReconcile42723612-May-22FEDEX NATIONAL LTL, INC598.37IRWD CheckReconcile42723612-May-22FEDEX NATIONAL LTL, INC598.37IRWD CheckReconcile   |              | -            |  |                |            | Reconciled |
| 427236 12-May-22 FEDEX NATIONAL LTL, INC 598.37 IRWD Check Reconcile   |              | -            |  |                |            | Reconciled |
|  |              |              |  |                |            | Reconciled |
| D - 3  |              |              |  |                |            | Reconciled |
|  |              | ,            | D - 3  |                |            |            |

| CHECK OR<br>ELECTRONIC # | PAYMENT DATE           | SUPPLIERS  | DAVMENT ANACUNT             | PAYMENT<br>METHOD        | STATUS                   |
|--------------------------|------------------------|--|-----------------------------|--------------------------|--------------------------|
| 427238                   | 12-May-22              | FERGUSON ENTERPRISES, LLC                                      | PAYMENT AMOUNT<br>48,220.57 | IRWD Check               | Reconciled               |
| 427238                   | 12-May-22              | FIRE EXTINGUISHING SAFETY & SERVICE                            | 46,220.57                   | IRWD Check               | Reconciled               |
| 427240                   | 12-May-22              | FIRST CHOICE SERVICES  | 2,875.64                    | IRWD Check               | Reconciled               |
| 427241                   | 12-May-22              | FISHER SCIENTIFIC COMPANY LLC                                  | 736.92                      | IRWD Check               | Reconciled               |
| 427242                   | 12-May-22              | FITCH RATINGS, INC.  | 2,000.00                    | IRWD Check               | Reconciled               |
| 427243                   | ,<br>12-May-22         | FOLLMAN, JACK  | 160.57                      | IRWD Check               | Reconciled               |
| 427244                   | 12-May-22              | FOUGHT, CYNTHIA J.   | 2,893.15                    | IRWD Check               | Reconciled               |
| 427245                   | 12-May-22              | FRONTIER CALIFORNIA INC.                                       | 58.47                       | IRWD Check               | Reconciled               |
| 427246                   | 12-May-22              | GANAHL LUMBER CO.  | 3,356.68                    | IRWD Check               | Reconciled               |
| 427247                   | 12-May-22              | GEIGER BROS  | 498.73                      | IRWD Check               | Reconciled               |
| 427248                   | 12-May-22              | GEORGE HILLS COMPANY, INC.                                     | 99                          | IRWD Check               | Reconciled               |
| 427249                   | 12-May-22              | GI ENDURANT LLC  | 16,362.50                   | IRWD Check               | Reconciled               |
| 427250                   | 12-May-22              | GLEW, CHRISTOPHER  | 78.88                       | IRWD Check               | Negotiable               |
| 427251                   | 12-May-22              | GOVERNMENTJOBS.COM, INC.                                       | 2,850.00                    | IRWD Check               | Reconciled               |
| 427252                   | 12-May-22              | GRACE BJORNSTAD  | 1,731.47                    | IRWD Check               | Reconciled               |
| 427253                   | 12-May-22              | GRAINGER   | 6,924.42                    | IRWD Check               | Reconciled               |
| 427254                   | 12-May-22              |  | 4,222.02                    | IRWD Check               | Reconciled               |
| 427255                   | 12-May-22<br>12-May-22 | HAZEN AND SAWYER   | 1,825.00                    | IRWD Check               | Reconciled<br>Reconciled |
| 427256<br>427257         | 12-May-22              | HDR ENGINEERING INC<br>HELPMATES STAFFING SERVICES             | 8,966.00<br>1,632.00        | IRWD Check<br>IRWD Check | Reconciled               |
| 427258                   | 12-May-22              | HELPMATES STAFFING SERVICES LLC                                | 5,062.80                    | IRWD Check               | Reconciled               |
| 427259                   | 12-May-22              | HI-LINE INC  | 240.76                      | IRWD Check               | Reconciled               |
| 427260                   | 12-May-22              | HILL BROTHERS CHEMICAL COMPANY                                 | 3,548.11                    | IRWD Check               | Reconciled               |
| 427261                   | 12-May-22              | HOME DEPOT USA INC   | 1,315.61                    | IRWD Check               | Reconciled               |
| 427262                   | 12-May-22              | HORIZON ENGINEERING SYSTEMS LLC                                | 5,040.00                    | IRWD Check               | Reconciled               |
| 427263                   | ,<br>12-May-22         | HOYA OPTICAL LABS OF AMERICA, INC.                             | 211                         | IRWD Check               | Reconciled               |
| 427264                   | 12-May-22              | INDUSTRIAL METAL SUPPLY CO                                     | 791.21                      | IRWD Check               | Reconciled               |
| 427265                   | 12-May-22              | INLAND POTABLE SERVICES, INC.                                  | 23,711.00                   | IRWD Check               | Reconciled               |
| 427266                   | 12-May-22              | IRVINE PIPE & SUPPLY INC                                       | 259.63                      | IRWD Check               | Reconciled               |
| 427267                   | 12-May-22              | IRVINE UNIFIED SCHOOL DISTRICT                                 | 718.5                       | IRWD Check               | Reconciled               |
| 427268                   | 12-May-22              | IRWD-PETTY CASH CUSTODIAN                                      | 918.57                      | IRWD Check               | Reconciled               |
| 427269                   | 12-May-22              | JCI JONES CHEMICALS INC  | 3,932.34                    | IRWD Check               | Reconciled               |
| 427270                   | 12-May-22              | KIM, BONG DU   | 65.67                       | IRWD Check               | Reconciled               |
| 427271                   | 12-May-22              | KONECRANES, INC.   | 77,260.30                   | IRWD Check               | Reconciled               |
| 427272                   | 12-May-22              | LANDCARE HOLDINGS, INC.  | 49,743.35                   | IRWD Check               | Reconciled               |
| 427274                   | 12-May-22              |  | 563.5                       | IRWD Check               | Reconciled               |
| 427275                   | 12-May-22              | LINDE GAS & EQUIPMENT INC.                                     | 1,695.47                    | IRWD Check               | Reconciled               |
| 427276                   | 12-May-22              | LINDSAY POLIC CONSULTING, INC.                                 | 5,600.00                    | IRWD Check               | Reconciled               |
| 427277<br>427278         | 12-May-22<br>12-May-22 | LOM PARTNERS LLC<br>MBC AQUATIC SCIENCES, INC.                 | 58.85<br>4,400.00           | IRWD Check<br>IRWD Check | Negotiable<br>Reconciled |
| 427279                   | 12-May-22              | MC FADDEN-DALE INDUSTRIAL                                      | 335.87                      | IRWD Check               | Reconciled               |
| 427280                   | 12-May-22              | MC MASTER CARR SUPPLY CO                                       | 625.17                      | IRWD Check               | Reconciled               |
| 427281                   | 12-May-22              | MEROLA, PAUL   | 32.18                       | IRWD Check               | Negotiable               |
| 427282                   | 12-May-22              | MICHAEL LOMONACO   | 4,500.00                    | IRWD Check               | Reconciled               |
| 427283                   | 12-May-22              | MISSION COMMUNICATIONS, LLC                                    | 1,744.20                    | IRWD Check               | Reconciled               |
| 427284                   | 12-May-22              | MONARCH ENVIRONMENTAL, INC.                                    | 2,100.00                    | IRWD Check               | Reconciled               |
| 427285                   | 12-May-22              | MOSLEY, ANTOINETTE   | 169.16                      | IRWD Check               | Reconciled               |
| 427286                   | 12-May-22              | MUNICIPAL WATER DISTRICT OF ORANGE COUNTY                      | 126,487.89                  | IRWD Check               | Reconciled               |
| 427287                   | 12-May-22              | MUTUAL PROPANE   | 211.15                      | IRWD Check               | Reconciled               |
| 427288                   | 12-May-22              | NATIONAL READY MIXED CONCRETE SALES, LLC                       | 1,414.76                    | IRWD Check               | Reconciled               |
| 427289                   | 12-May-22              | NATURALWELL, LLC   | 2,502.50                    | IRWD Check               | Reconciled               |
| 427290                   | 12-May-22              | NATURES IMAGE INC  | 6,200.00                    | IRWD Check               | Reconciled               |
| 427291                   | 12-May-22              | NEW DIMENSION GENERAL CONSTRUCTION                             | 4,650.70                    | IRWD Check               | Reconciled               |
| 427292                   | 12-May-22              | O'REILLY AUTO ENTERPRISES, LLC                                 | 203.94                      | IRWD Check               | Reconciled               |
| 427293                   | 12-May-22              | O.C. SUPERIOR CUSTOM CLEANING                                  | 3,600.00                    | IRWD Check               | Reconcileo               |
| 427294                   | 12-May-22              | OLIN CORPORATION   | 22,517.60                   | IRWD Check               | Reconcileo               |
| 427295                   | 12-May-22              | ONESOURCE DISTRIBUTORS LLC                                     | 21.27                       | IRWD Check               | Reconciled               |
| 427296                   | 12-May-22              | ORACLE AMERICA, INC.   | 6,667.98                    | IRWD Check               | Reconcileo               |
| 427297                   | 12-May-22              | ORANGE COUNTY SANITATION DISTRICT                              | 95,537.53                   | IRWD Check               | Reconciled               |
| 427298                   | 12-May-22              | ORANGE COUNTY TREASURER  | 250                         | IRWD Check               | Reconciled               |
| 427299                   | 12-May-22              | OTF IRVINE INC   | 385.19<br>25.99             | IRWD Check               | Negotiable               |
| 427300<br>427301         | 12-May-22<br>12-May-22 | PACIFIC AUTO WASH PARTNERS<br>PACIFIC HYDROTECH CORPORATION    | 25.99<br>6,682.30           | IRWD Check<br>IRWD Check | Reconciled<br>Reconciled |
| 427301 427302            | 12-May-22<br>12-May-22 | PACIFIC HYDROTECH CORPORATION<br>PACIFIC HYDROTECH CORPORATION | 6,682.30 126,963.57         | IRWD Check               | Reconciled               |
| 427302                   | 12-May-22              | PARKHOUSE TIRE INC   | 915.74                      | IRWD Check               | Reconciled               |
| 427303                   | 12-May-22              | PAYMENTUS GROUP INC.   | 70,768.09                   | IRWD Check               | Reconciled               |
| 427305                   | 12-May-22              | PELLETIER & ASSOCIATES, INC.                                   | 2,600.00                    | IRWD Check               | Reconciled               |
| 427306                   | 12-May-22              |  | 80.27                       | IRWD Check               | Reconciled               |
|                          | ,                      | PENN ARCHIVE SERVICES D - 6                                    | -0                          |                          |                          |
|                          |                        |  |                             |                          |                          |

| 427308         12-May 22         PULSULKY WINTHROP SHAW PITTAAN LLP         1,2430         1,2430,22         PRUDENTIAL OVERALL SUPPLY         10,3732         110,3732         110,3732         110,3732         110,3732         110,3732         110,3732         110,3732         110,3732         110,3732         110,3723         110,3724         110,372                             | CHECK OR |           |                                       |            | PAYMENT    | STATUS                   |
|---|----------|-----------|---------------------------------------|------------|------------|--------------------------|
| 427308         12-May 22         PULSURY WINTHOP SHAW PITTAAN LLP         1.2480.00         FX00.00   |          |           |                                       |            |            | STATUS                   |
| 422409         12-May 22         POLLARDAVERECOM         5,700 AB         INVO Check           422310         12-May 22         PUKL CAROL         53.83         INVO Check           427311         12-May 22         PUKL CAROL         53.83         INVO Check           427313         12-May 22         PUKL CAROL         13.02.83         INVO Check           427314         12-May 22         REMOREENIN INC         13.02.83         INVO Check           427313         12-May 22         REMOREENIN SUPPLY         13.02.83         INVO Check           427314         12-May 22         REFIGUENIN SUPPLY SUPPLY         13.02.04         INVO Check           427310         12-May 22         REFIGUENIN SUPPLY SUPPLY         13.02.04         INVO Check           427311         12-May 22         REFIGUENING CARATARCA, INC.         13.03.04         INVO Check           427313         12-May 22         REFIGUENING CARATARCA, INC.         13.05.04         INVO Check           427313         12-May 22         REFIGUENING CARATARCA, INC.         13.05.34         INVO Check           427323         12-May 22         SOUT COLLEACE SURVEYS, INC.         15.35.3         INVO Check           427324         12-May 22         SOUT COLLEACE SURVEYS, INC. <t< td=""><td></td><td>•</td><td></td><td>,</td><td></td><td>Reconciled<br/>Reconciled</td></t<>                          |          | •         |                                       | ,          |            | Reconciled<br>Reconciled |
| 427310         12. May 22         PRUDENTAL OVERAL SUPPLY         10.973.23         RNM C neck. F           427311         12. May 22         PRUMC CAROL         985.35         RNM C neck. F           427313         12. May 22         RAM R ENSINEERINS INC         13.022.88         RNM C neck. F           427314         12. May 22         RAM R ENSINEERINS INC         13.072.84         RNM C neck. F           427315         12. May 22         RENT CERL NORTH AMERICA, INC         12.674.00         FM C neck. F           427316         12. May 22         RENT CERL NORTH AMERICA, INC         7.944.00         RENT C NECK NORTH AMERICA, INC           427317         12. May 22         RENT CERL NORTH AMERICA, INC         7.944.00         RENT C NECK NORTH AMERICA, INC           427318         12. May 22         RENT CERL CORPORATION         8.868         RENT C NECK NORTH AMERICA, INC           427311         12. May 22         RENT CERL CORPORATION         8.868         RENT C NECK NORTH AMERICA, INC           427321         12. May 22         RENT C RENT AMERICA, INC         7.943.86         RENT C NECK NORTH AMERICA, INC           427323         12. May 22         SEMT AMERICA, INC NORTH AMERICA, INC         7.943.86         RENT C NECK NORTH AMERICA, INC |          |           |                                       |            |            | Reconciled               |
| 427311         12.Mmy 22         PUKL (AROL         53.85         RWD Check           427312         12.Mmy 22         RWM ARE NORREEMAN INC         13.02.85         IRWD Check           427313         12.Mmy 22         RENNINE COMPANY         13.02.85         IRWD Check           427315         12.Mmy 22         RENNINE SHOE STORE         1.07.50         IRWD Check           427315         12.Mmy 22         RENNICKIN NORT MARKICA, INC         12.57.40         IRWD Check           427317         12.Mmy 22         RENTOKIN NORT MASSOLATES, INC.         7.941.00         IRWD Check           427318         12.4my 22         RENDEY HAMMSWORTH ASSOLATES, INC.         7.941.00         IRWD Check           427312         12.4my 22         RODRIGUE, MANITO         9.864.88         IRWD Check         IRWD Check           427323         12.4my 22         SODLIBLACK SURVEYS, INC.         80.85         IRWD Check         IRWD Check           427323         12.4my 22         SOULINE ASURVEYS INTERCT         13.037.44         IRWD Check         IRWD Check           427323         12.4my 22         SOULINE CAST ARE ANDIT INCOMPORATED         13.037.44         IRWD Check           427324         12.4my 22         SOULIN CAST ARE ANDIT INCOMPORATED         13.037.44   |          | -         |                                       |            |            | Reconciled               |
| 427212         12-May 22         RUM Check F           427213         12-May 22         REM AIR ENGINEERINE INC         13,032.88         REM Check F           4272141         12-May 22         RETGREATION SUPPLIS DISTIBUTOR         375.62         REM Check F           4272145         12-May 22         RETGREATION SUPPLIS DISTIBUTOR         375.62         REM Check F           4272141         12-May 22         RESTCOKI NORTH AMERICA, INC         12,67.60         REM Check F           4272131         12-May 22         RESTCOKI NORTH AMERICA, INC         7,944.100         REM Check F           4272131         12-May 22         RODREJEZ, RAMINSWORTH ASSOCIATE, INC.         7,944.100         REM Check F           4272131         12-May 22         RODREJEZ, RAMINSWORTH ASSOCIATE, INC.         60.55         REW Check F           4272321         12-May 22         SOLEBACE SURVES; INC.         05.55         REW Check F           427233         12-May 22         SOLEBACE SURVES; INC.         31,03.25         REW Check F           427234         12-May 22         SOLEBACE SURVES; INC.         31,03.25         REW Check F           427235         12-May 22         SOLEBACE SURVES; INC.         31,03.25         REW Check F           427236         12-May 22         SOLEB   |          | •         |                                       |            |            | Reconciled               |
| 427333       12-May-22       RAM ARE ROWIES FIORE       10,075.00       10,075.   |          | •         |                                       |            |            | Reconciled               |
| 427314       12-MMy-22       RED WING SHOE STORE       1.075.00       RWO Check       F         427315       12-MMy-22       RENTORIL NORTH AMERICA, INC       12.674.00       RWO Check       F         427315       12-MMy-22       RENTORIL NORTH AMERICA, INC       12.674.00       RWO Check       F         427318       12-MMy-22       RODREY HAMSWORTH ASSOCIATES, INC.       7.941.00       RWO Check       F         427320       12-MMy-22       RODREY HAMSWORTH ASSOCIATES, INC.       665.5       RWO Check       F         427321       12-MMy-22       SADDEBACK SUVEYS, INC.       665.5       RWO Check       F         427322       12-MMy-22       SANT AAN BUE PINT       1.549.41       RWO Check       F         427323       12-MMy-22       SANT AAN BUE PINT       1.549.41       RWO Check       F         427324       12-MMy-22       SCOTT ECUIPANET NICORPORATE       3.018.10       RWO Check       F         427325       12-MMy-22       SCOTT ECUIPANET NICORPORATE       3.018.10       RWO Check       F         427326       12-MMy-22       SOUTH COAST MARCES NICOT       3.018.10       RWO Check       F         427331       12-MMy-22       SOUTH COAST WATER CO.       5       3.018.10   |          | -         |                                       |            |            | Reconciled               |
| 42315       12-Mmy-22       EFRIGERATION SUPPLIES DISTIBUTION       12.674.00       12.674.00       12.674.00         42316       12-Mmy-22       RESTEX CORPORATION       537.57       IRWD Check       1         42318       12-Mmy-22       RODEN HARSMOWNER ASSOCIATES, INC.       7.941.00       IRWD Check       1         427319       12-Mmy-22       RODER/URLSMOWNER ASSOCIATES, INC.       66.88       IRWD Check       1         427321       12-Mmy-22       SADDIERACK SURVEYS, INC.       66.55       IRWD Check       1         427323       12-Mmy-22       SADIMARCA SURVEYS, INC.       66.88       IRWD Check       1         427323       12-Mmy-22       SANTA ANA BLUE PRINT       1.543.31       IRWD Check       1         427324       12-Mmy-22       SERANO WARED DISTICT       13.037.44       IRWD Check       1         427325       12-Mmy-22       SERANO WARED DISTICT       28.76       IRWD Check       1         427338       12-Mmy-22       SERANO WARED DISTICT       28.76       IRWD Check       1         427333       12-Mmy-22       SOUTH COAST WARE CO.       95       IRWD Check       1         427333       12-Mmy-22       SOUTH COAST WARE CO.       95       IRWD Check       1<   |          | -         |                                       |            |            | Reconciled               |
| 427317       12.May 22       RESTER CORPORATION       537.57       RWD Check       F         427318       12.May 22       RODENEY HARMWORTH ASSOCIATES, INC.       7.94.10.0       RWD Check       F         427319       12.May 22       RODERS, ROY       8.6.8       RWD Check       F         427321       12.May 22       SADLEBACK SURVEYS, INC.       6.05.5       RWD Check       F         427323       12.May 22       SANTA ANA BLUE PRINT       4.6.8       RWD Check       F         427323       12.May 22       SANTA ANA BLUE PRINT       15.45.3       RWD Check       F         427324       12.May 22       SCUTT EQUIPMENT INCORPORATED       15.45.3       RWD Check       F         427325       12.May 22       SERAROW ATRE DISTRICT       31.07.5       RWD Check       F         427330       12.May 22       SOUTH COAST MARKER CO.       95       RWD Check       F         427333       12.May 22       SOUTH COAST MARKER CO.       95       RWD Check       F         427333       12.May 22       SOUTH COAST MARKER CONTRALESCON COMPANY       28.76.15       RWD Check       F         427333       12.May 22       SOUTH COAST MARKER CONTRALESCON COMPANY       28.76.15       RWD Check       F<   |          |           | REFRIGERATION SUPPLIES DISTRIBUTOR    | 379.62     |            | Reconciled               |
| 427318       12.Mmy22       RODREY HAMNSWORTH ASSOCIATES, INC.       7.941.00       RWD Check         427330       12.Mmy22       RODRIGUEZ RANIRO Y       606.5       RWD Check       P         427331       12.Mmy22       SADLEBACK SINEYES, INC.       605.5       RWD Check       P         427332       12.Mmy22       SAN LARK CO APARTMENTS       46.88       RWD Check       P         427333       12.Mmy22       SANT ANA BUE PRINT       1.540.41       RWD Check       P         427334       12.Mmy22       SCOTT EQUIPMENT INCORPORATED       13.61.64       RWD Check       P         427335       12.Mmy22       SERMAND WATER DISTRICT       31.61.50       RWD Check       P         427335       12.Mmy22       SOUTH COAST VARTER DISTRICT       31.61.51       RWD Check       P         427330       12.Mmy22       SOUTH COAST WATER DISTRICT       37.51       RWD Check       P         427331       12.Mmy22       SOUTH COAST WATER DISTRICT       37.51       RWD Check       P         427332       12.Mmy22       SOUTH COAST WATER DISTRICT       37.51       RWD Check       P         427333       12.Mmy22       SOUTH COAST WATER DISTRICT       37.51       RWD Check       P  | 427316   | 12-May-22 | RENTOKIL NORTH AMERICA, INC           | 12,674.00  | IRWD Check | Reconciled               |
| 427320       12-May-22       RODRIGUEZ, RAMIRO Y       86.88       RWD Check, F         427320       12-May-22       SADDLEBACK SURVEYS, INC.       60.55       RWD Check, F         427323       12-May-22       SADNLEACK SURVEYS, INC.       46.88       RWD Check, F         427323       12-May-22       SAN TAK CA ANA BULE PRINT       1.54.94.1       RWD Check, F         427334       12-May-22       SANTA CA ANA BULE PRINT       1.54.94.1       RWD Check, F         427335       12-May-22       SCOTT EQUIPMENT INCORPORATED       1.01.37.4       RWD Check, F         427336       12-May-22       SERANO MATER DISTRICT       1.01.37.4       RWD Check, F         427338       12-May-22       SCUTT COLAST WARE DISTRICT       1.01.37.4       RWD Check, F         427330       12-May-22       SOUTH COAST WARE DISTRICT       1.01.07.4       RWD Check, F         427331       12-May-22       SOUTH COAST WARE DISTRICT       1.01.07.4       RWD Check, F         427331       12-May-22       SOUTH COAST WARE DISTRICT       1.01.07.4       RWD Check, F         427333       12-May-22       SOUTH COAST WARE DISTRICT       1.01.00.0       RWD Check, F         427334       12-May-22       SOUTH COAST WARE DISTRICT       1.01.00.0       RWD C   | 427317   | 12-May-22 | RESTEK CORPORATION                    | 537.57     | IRWD Check | Reconciled               |
| 427320       12-May-22       ROGERS, ROY       86.88       RWD Onek       F         427321       12-May-22       SAN DIREACS SURVEYS, INC.       60.55       RWD Onek       F         427322       12-May-22       SAN TAN AN BUE PRINT       1.54.94       RWD Onek       F         427324       12-May-22       SCOTT EQUIPMENT INCORPORATED       15.45.31       RWD Onek       F         427325       12-May-22       SECURTS SECURITY SERVICES USA, INC.       79.23.55.5       RWD Onek       F         427326       12-May-22       SERRAND WATER DISTRICT       31.61.50       RWD Onek       F         427338       12-May-22       SOUTH COAST UBOGAT       5.31.48       IRWD Onek       F         427339       12-May-22       SOUTH COAST WATER DISTRICT       39.71       IRWD Onek       F         427331       12-May-22       SOUTH COAST WATER DISTRICT       39.71       IRWD Onek       F         427333       12-May-22       SOUTHER CALIFORNIA SCIUTT (CORTERES, INC.       44.06.8       RWD Onek       F         427333       12-May-22       SOUTHERN AURTER DISTRICT       39.1       IRWD Onek       F         427334       12-May-22       SOUTHERN AURTER DISTRICT       39.0       IRWD Onek       F </td <td>427318</td> <td>12-May-22</td> <td>RODNEY HARMSWORTH ASSOCIATES, INC.</td> <td>7,941.00</td> <td>IRWD Check</td> <td>Reconciled</td>                                       | 427318   | 12-May-22 | RODNEY HARMSWORTH ASSOCIATES, INC.    | 7,941.00   | IRWD Check | Reconciled               |
| 427232       12.May 22       SADDLEBACK SURVEYS, INC.       605.5       RWD Check       F         427332       12.May 22       SAN MARCO APARTHENTS       46.88       RWD Check       F         427334       12.May 22       SANTA AN BULE PRINT       15.45.41       RWD Check       F         427335       12.May 22       SCUTT EQUIPMENT INCORPORATED       15.45.35       RWD Check       F         427335       12.May 22       SCUTT COUNTY SERVICES USA, INC.       13.07.87       RWD Check       F         427335       12.May 22       SCUTT COAST AN COLL       3.16.1.50       RWD Check       F         427338       12.May 22       SOUTT COAST AN COLL       91.81.81       RWD Check       F         427338       12.May 22       SOUTT COAST WATER DOST       93.11       RWD Check       F         427339       12.May 22       SOUTT COAST WATER DOST       93.16.1.51       RWD Check       F         427334       12.May 22       SOUTT COAST WATER DOST       93.1.61.50       RWD Check       F         427334       12.May 22       SOUTT COAST WATER DOST       93.1.61.50       RWD Check       F         427334       12.May 22       SOUTT COAST WATER DOST       84.00.0.0.0.0.0       RWD Check  | 427319   | 12-May-22 | RODRIGUEZ, RAMIRO Y                   | 56.04      | IRWD Check | Negotiable               |
| 427321       12-May-22       SANT ANA BULF PRINT       5.494.01       IRWO Check       F         427333       12-May-22       SCOTT EQUIPMENT INCORPORATED       15.45.3       IRWO Check       F         427335       12-May-22       SCUTTE SCULIPT SERVICES USA, INC.       79.35.85       IRWO Check       F         427335       12-May-22       SERMAN WATER DISTRICT       31.03.78.8       IRWO Check       F         427332       12-May-22       SUNTH COST AR QUALITY MARAGEMENT DISTRICT       23.77.6       IRWO Check       F         427333       12-May-22       SOUTH COST AR QUALITY MARAGEMENT DISTRICT       23.71.7       IRWO Check       F         427333       12-May-22       SOUTH COST WATER CO.       9       IRWO Check       F         427333       12-May-22       SOUTHER CALIFORINA EDISON COMPANY       28.3.76.57       IRWO Check       F         427333       12-May-22       SOUTHER CALIFORINA EDISON COMPANY       28.3.76.57       IRWO Check       F         427333       12-May-22       SOUTHER CALIFORINA EDISON COMPANY       28.3.76.57       IRWO Check       F         427334       12-May-22       SOUTHER CALIFORINA EDISON COMPANY       28.3.76.57       IRWO Check       F         427335       12-May-22   | 427320   | 12-May-22 | ROGERS, ROY                           | 86.88      | IRWD Check | Reconciled               |
| 427233       12-May-22       SANTA ANA BLUE FRINT       1,549.41       INVO Check       F         427345       12-May-23       SECUITT SCIENTIN INCORPORATED       31,037.84       INVO Check       F         427325       12-May-23       SECUITT SCIENTIN SECURITY SERVICES USA, INC.       31,037.84       INVO Check       F         427326       12-May-23       SIGMANOK SUPPLY CO INC.       31,037.84       INVO Check       F         427328       12-May-23       SOUTH COAST DEGAT       5,314.81       INVO Check       F         427330       12-May-23       SOUTH COAST DEGAT       93       INVO Check       F         427331       12-May-23       SOUTH COAST WATER DEGAT       93.11       INVO Check       F         427331       12-May-23       SOUTH COAST WATER DEGAT       93.11       INVO Check       F         427332       12-May-23       SOUTH COAST WATER DEGNCT       93.11       INVO Check       F         427333       12-May-23       SOUTHERN ALLFONNA SECURITY CENTERS, INC.       440.68       INVO Check       F         427334       12-May-23       STATE WATER RESOURCES COMTROL BOADD       440.13.91       INVO Check       F         427334       12-May-23       SUNA NASINO       SUNA NASINO  | 427321   | 12-May-22 | SADDLEBACK SURVEYS, INC.              |            | IRWD Check | Reconciled               |
| 427224         12-May-22         SCOTT EQUIPMENT INCORPORATED         154-53         INVO Check         F           427335         12-May-22         SECURITA SECIORS USA, INC.         79.258-58         INVO Check         F           427336         12-May-22         SERMAN WATER DISTICIT         31.037.84         INVO Check         F           427328         12-May-22         SOUTH COAST AIR QUALITY MARAGEMENT DISTICIT         287.76         INVO Check         F           427332         12-May-22         SOUTH COAST WATER OSTICIT         93.11         INVO Check         F           427331         12-May-22         SOUTH COAST WATER OSTICIT         93.71         INVO Check         F           427333         12-May-22         SOUTH COAST WATER OSTICIT         93.71         INVO Check         F           427333         12-May-22         SOUTHER CALIFORNIA EDSON COMPANY         28.376.57         INVO Check         F           427334         12-May-22         SOUTHER CALIFORNIA EDSON COMPANY         28.376.57         INVO Check         F           427335         12-May-22         SOUTHER CALIFORNIA EDSON COMPANY         28.366.37         INVO Check         F           427334         12-May-22         SULK ADVERTISIG INC.         45.63.91         INVO Check  |          | -         |                                       |            |            | Reconciled               |
| 127225       12-May-22       SECURITAS SECURITY SERVICES USA, INC.       79,235.85       IRWO Check       F         427326       12-May-22       SERRANO WARER DISTRICT       31,015.10       IRWO Check       F         427328       12-May-22       SOUTH COAST B0BCAT       287.76       IRWO Check       F         427338       12-May-22       SOUTH COAST B0BCAT       287.76       IRWO Check       F         427338       12-May-22       SOUTH COAST WATER OL       95       IRWO Check       F         427338       12-May-22       SOUTH COAST WATER OLS       95       IRWO Check       F         427331       12-May-22       SOUTH COAST WATER OLS       0000       IRWO Check       F         427333       12-May-22       SOUTH ENC ALIFORNIA SECURITY CENTERS, INC.       480.08       IRWO Check       F         427334       12-May-22       STATE WATER RESOURCES CONTROL BOARD       480.122.91       IRWO Check       F         427335       12-May-22       SUNA PRAIN       SINTER SOURCES CONTROL BOARD       480.122.91       IRWO Check       F         427336       12-May-22       SUNA PRAIN       SINTER SOURCES CONTROL BOARD       480.122.91       IRWO Check       F         427331       12-May-22       S  |          | -         |                                       |            |            | Reconciled               |
| 427326       12-May-22       SERRANO WATER DISTRICT       31.037.84       IRWD Check       F         427327       12-May-22       SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT       287.76       IRWD Check       F         427328       12-May-22       SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT       53.18.48       IRWD Check       F         427330       12-May-22       SOUTH COAST AIR QUALITY MATER DO.       95       IRWD Check       F         427331       12-May-22       SOUTH COAST WATER DOSTRICT       937.17       IRWD Check       F         427333       12-May-22       SOUTHERN CALIFORNIA SEQURITY CENTERS, INC.       440.68       IRWD Check       F         427333       12-May-22       SOUTHERN CALIFORNIA SEQURITY CENTERS, INC.       440.68       IRWD Check       F         427334       12-May-22       SURE ADVERTISION INC.       65.70000       IRWD Check       F         427333       12-May-22       SUNSHINE SUPPLY COMPANY, INC.       5,469.39       IRWD Check       F         427334       12-May-22       SUNSHINE SUPPLY COMPANY, INC.       2,603.97       IRWD Check       F         427343       12-May-22       SUNSHINE SUPPLY COMPANY, INC.       2,603.97       IRWD Check       F         427343       12-May-2   |          | -         |                                       |            |            | Reconciled               |
| 427327       12-May-22       SHARROCK SUPPLY CO INC       3,161.50       IRWD Check       F         427328       12-May-22       SOUTH COAST BOBCAT       5,314.81       IRWD Check       F         427339       12-May-22       SOUTH COAST BOBCAT       5,314.81       IRWD Check       F         427331       12-May-22       SOUTH COAST BOBCAT       95       IRWD Check       F         427331       12-May-22       SOUTH COAST WATER DISTRICT       937.17       IRWD Check       F         427333       12-May-22       SOUTHERN CALIFORNIA SECURITY CENTERS, INC.       440.68       IRWD Check       F         427333       12-May-22       STATE WATER RESOURCES CONTROL BOADA       480.132.91       IRWD Check       F         427335       12-May-22       SURLE ADVERTISING INC.       49.570.00       IRWD Check       F         427336       12-May-22       SURLE ADVERTISING INC.       49.69.30       IRWD Check       F         427337       12-May-22       SUNEL ADVERTISING INC.       4.60.00       IRWD Check       F         427338       12-May-22       SUNEL ADVERTISING INC.       4.60.00       IRWD Check       F         427341       12-May-22       SUNELADVERTISING INC.       4.60.00       IRWD Check<  |          | -         |                                       | ,          |            | Reconciled               |
| 1242328       12-May-22       SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT       287.76       IRWD Check       F         427339       12-May-22       SOUTH COAST WATER CO.       95       IRWD Check       F         427331       12-May-22       SOUTH COAST WATER DISTRICT       93.1.7       IRWD Check       F         427333       12-May-22       SOUTHERN CALIFORNIA BISCIN COMPANY       283.76.157       IRWD Check       F         427333       12-May-22       SOUTHERN CALIFORNIA SECURITY CENTERS, INC.       440.68       IRWD Check       F         427334       12-May-22       STADARDA B POORS FINANCALIS ESVICES LC       1,000.00       IRWD Check       F         427335       12-May-22       SURLE ADVERTISING INC.       69.700.00       IRWD Check       F         427336       12-May-22       SURLE ADVERTISING INC.       69.700.00       IRWD Check       F         427339       12-May-22       SUSAN A, SIROTA       4850.00       IRWD Check       F         427340       12-May-22       SUSAN A, SIROTA       4850.00       IRWD Check       F         427341       12-May-22       SUSAN A, SIROTA       2.603.97       IRWD Check       F         427343       12-May-22       TRACHAUMORES AN OF CALIFORNIA, LLC   |          | -         |                                       | ,          |            | Reconciled               |
| 1247329       12-May-22       SOUTH COAST BORCAT       \$31.48.1       IRWD Check       F         427330       12-May-22       SOUTH COAST WATER CO.       95       IRWD Check       F         427331       12-May-22       SOUTH COAST WATER CO.       93.7.17       IRWD Check       F         427332       12-May-22       SOUTHEN CALIFORNIA SEUCINTY CENTERS, INC.       440.68       IRWD Check       F         427333       12-May-22       STATE WATER RESOURCES CONTROL BOARD       480.13.29.11       IRWD Check       F         427333       12-May-22       SUN FERNER RESOURCES CONTROL BOARD       480.13.29.11       IRWD Check       F         427333       12-May-22       SUN FERNE RESOURCES CONTROL BOARD       480.13.29.11       IRWD Check       F         427333       12-May-22       SUN FERNO       770.99       IRWD Check       F         427333       12-May-22       SUN FERNO       480.00       IRWD Check       F         427341       12-May-22       SUN FERNO       480.00       IRWD Check       F         427343       12-May-22       TAND RO MORISON OF CALFORNIA, LLC       47.38.4       IRWD Check       F         427344       12-May-22       TEKDRAULUS       2.60.37       IRWD Check   |          |           |                                       | ,          |            | Reconciled               |
| 127320       12-May-22       SOUTH COAST WATER DISTRICT       93       1RWD Check       F         427333       12-May-22       SOUTH FEIN CALIFORNIA SISTRICT       937.17       1RWD Check       F         427333       12-May-22       SOUTH FEIN CALIFORNIA SISTRICT       233,761.57       1RWD Check       F         427333       12-May-22       SOUTH FEIN CALIFORNIA SISTRICT       440.68       1RWD Check       F         427334       12-May-22       STANDRAD & POORS FINANCIAL SISTRICTS       440.132.91       1RWD Check       F         427335       12-May-22       STANDRAD & POORS FINANCIAL SISTRICTS       69,570.00       1RWD Check       F         427336       12-May-22       SUKE ADVERTISING INC.       69,570.00       1RWD Check       F         427338       12-May-22       SUKE ADVERTISING INC.       4,850.00       1RWD Check       F         427340       12-May-22       SUSAN A. SIROTA       4,850.00       1RWD Check       F         427341       12-May-22       TEHANAI, AUREZA       20       1RWD Check       F         427341       12-May-22       TEHANAI, AUREZA       20       1RWD Check       F         427342       12-May-22       TEHANAI, MANAGEMENT, INC       386.08       1RWD Che  |          | -         | -                                     |            |            | Reconciled<br>Reconciled |
| 427331         12-May-22         SOUTH COAST WATER DISTRICT         937.17         IRWD Check         F           427332         12-May-22         SOUTHERN CALIFORNIA EDISON COMPANY         283,761.57         IRWD Check         F           427333         12-May-22         SOUTHERN CALIFORNIA SECURITY CENTERS, INC.         440.68         IRWD Check         F           427334         12-May-22         STATE WATER RESOURCES CONTROL BOARD         480.132.91         IRWD Check         F           427335         12-May-22         SUKLE ADVENTISING INC.         69,570.00         IRWD Check         F           427337         12-May-22         SUKLE ADVENTISING INC.         5,469.39         IRWD Check         F           427338         12-May-22         SUSA NA SIGOTA         4,850.00         IRWD Check         F           427341         12-May-22         TENRAN LERAS         20         IRWD Check         F           427343         12-May-22         TENRAN LERAS         20         IRWD Check         F           427344         12-May-22         TENRAN LERAS         20         IRWD Check         F           427344         12-May-22         TENRAN LERAS         21.165.02         IRWD Check         F           427345         1   |          | -         |                                       |            |            | Reconciled               |
| 427332         12-May-22         SOUTHERN CALIFORNIA EDISON COMPANY         283,761.57         IRWD Check         F           427333         12-May-22         SOUTHERN CALIFORNIA SECURITY CENTERS, INC.         440.68         IRWD Check         F           427334         12-May-22         STANDARD & POOR'S FINANCIAL SERVICES LLC         1,000.00         IRWD Check         F           427335         12-May-22         SUKLE ADVERTISING INC.         69,570.00         IRWD Check         F           427337         12-May-22         SUVLE ADVERTISING INC.         5,660.30         IRWD Check         F           427338         12-May-22         SUSLA DVERTISING INC.         5,660.30         IRWD Check         F           427339         12-May-22         SUSAN A. SIROTA         4,850.00         IRWD Check         F           427340         12-May-22         TENDRAIN, AIREZA         20         IRWD Check         F           427341         12-May-22         TERDRAIN, AIREZA         20         IRWD Check         F           427343         12-May-22         TERDRAIN, AIREZA         20         IRWD Check         F           427343         12-May-22         TERDRAIN, AIREZA         20         IRWD Check         F           427344   |          | -         |                                       |            |            | Reconciled               |
| 427333         12-May-22         STATE WATER CALIFORNIA SECURITY CENTERS, INC.         440.68         IRWD Check         F           427334         12-May-22         STATE WATER RESOURCES CONTROL BOARD         1,000.00         IRWD Check         F           427335         12-May-22         STATE WATER RESOURCES CONTROL BOARD         69,570.00         IRWD Check         F           427337         12-May-22         SUN, KIL ADVERTISING INC.         69,570.00         IRWD Check         F           427338         12-May-22         SUN, KILA DVERTISING INC.         5,469.39         IRWD Check         F           427339         12-May-22         SUNSHINE SUPPLY COMPANY, INC.         5,469.39         IRWD Check         F           427341         12-May-22         TEKRANUCS         2,003.79         IRWD Check         F           427343         12-May-22         TEKRANULCS         2,003.79         IRWD Check         F           427344         12-May-22         TECRANULCS         2,003.79         IRWD Check         F           427344         12-May-22         TERRANULCS         2,003.79         IRWD Check         F           427344         12-May-22         TERRANULCS         2,063.89         IRWD Check         F           427345 <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>Reconciled</td>  |          | -         |                                       |            |            | Reconciled               |
| 427334       12-May-22       STANDARD & POOR'S FINANCIAL SERVICES LUC       1,000.00       IRWD Check       F         427335       12-May-22       STATE WATER RESOURCES CONTROL BOARD       480,132.21       IRWD Check       F         427336       12-May-22       SUKLE ADVERTISING INC.       69,570.00       IRWD Check       F         427338       12-May-22       SUN, YEXIAO       177.09       IRWD Check       F         427338       12-May-22       SUSAN A. SIROTA       4,850.00       IRWD Check       F         427334       12-May-22       THERAN, IALREZA       20       IRWD Check       F         427341       12-May-22       THERAN MLAREZA       20       IRWD Check       F         427341       12-May-22       THERAN MLAREZA       20       IRWD Check       F         427343       12-May-22       THERAN MLAREZA       20       IRWD Check       F         427343       12-May-22       THERAN MEDRENE DAS, INC.       286.08       IRWD Check       F         427344       12-May-22       TORAL MEMBRANE USA, INC.       206.68       IRWD Check       F         427345       12-May-22       TRARI MEDRENE DAS, INC.       11.36.00       IRWD Check       F         427   |          | •         |                                       |            |            | Reconciled               |
| 427335       12-May-22       STATE WATER RESOURCES CONTROL BOARD       480,132.91       RWD Check       F         427336       12-May-22       SULK ADVERTISING INC.       69,570.00       IRWD Check       F         427337       12-May-22       SULN FEIAD       177.09       IRWD Check       F         427338       12-May-22       SULN SINTE SUPPLY COMPANY, INC.       5,649.39       IRWD Check       F         427340       12-May-22       SUSAN AS IROTA       4,850.00       IRWD Check       F         427341       12-May-22       TEXPANUES       2,603.97       IRWD Check       F         427343       12-May-22       TEXPANUES       2,603.97       IRWD Check       F         427343       12-May-22       TEXPANUES       2,603.97       IRWD Check       F         427344       12-May-22       TEXPANUES       2,603.97       IRWD Check       F         427344       12-May-22       TERA VERDE INDUSTRIES       2,860.8       IRWD Check       F         427345       12-May-22       TORAT MEMBANE USA, INC.       368       IRWD Check       F         427345       12-May-22       TERA VERDE INDUSTRIES       286.08       IRWD Check       F         427345       1  |          | -         | · · · · · · · · · · · · · · · · · · · |            |            | Reconciled               |
| 427337       12-May-22       SUN, YEXIAO       177.09       IRWD Check       F         427338       12-May-22       SUNSHINE SUPPLY COMPANY, INC.       5,663.39       IRWD Check       F         427339       12-May-22       SUSAN A. SIROTA       4,850.00       IRWD Check       F         427340       12-May-22       TAYLOR MORRISON OF CALIFORNIA, LLC       47.384       IRWD Check       F         427341       12-May-22       TEKRANILLEZA       20       IRWD Check       F         427343       12-May-22       TEKORAULCS       2,603.97       IRWD Check       F         427344       12-May-22       TKERA VERDE INDUSTRIES       21,165.02       IRWD Check       F         427344       12-May-22       TORAY MEMBRANE USA, INC.       106,846.38       IRWD Check       F         427347       12-May-22       TRAN, TEN       29,14       IRWD Check       F         427347       12-May-22       TRAN, TEN       29,14       IRWD Check       F         427348       12-May-22       TRAN, TEN       29,14       IRWD Check       F         427349       12-May-22       TRAN, TEN       30       IRWD Check       F         427350       12-May-22       UNDERGROU   | 427335   | -         | STATE WATER RESOURCES CONTROL BOARD   | 480,132.91 | IRWD Check | Reconciled               |
| 427338       12-May-22       SUNSHINE SUPPLY COMPANY, INC.       5,469.39       IRWD Check       F         427339       12-May-22       SUSAN A. SIROTA       4,850.00       IRWD Check       F         427341       12-May-22       TAYLOR MORRISON OF CALIFORNIA, LLC       20       IRWD Check       F         427342       12-May-22       TEKDRAUILCS       2,603.97       IRWD Check       F         427343       12-May-22       TEKDRAUILCS       2,603.97       IRWD Check       F         427344       12-May-22       TECRETAIL PROPERTIES       21,650.02       IRWD Check       F         427345       12-May-22       TICRETAIL PROPERTIES       286.08       IRWD Check       F         427346       12-May-22       TOTAL RESOURCE MANAGEMENT, INC       106,846.38       IRWD Check       F         427349       12-May-22       TRAN, TIEN       29.14       IRWD Check       F         427349       12-May-22       TRAN, TIEN       29.14       IRWD Check       F         427349       12-May-22       TRAN, TIEN       29.14       IRWD Check       F         427350       12-May-22       UVERTICS, LIC       630       IRWD Check       F         427351       12-May-22 </td <td>427336</td> <td>12-May-22</td> <td>SUKLE ADVERTISING INC.</td> <td>69,570.00</td> <td>IRWD Check</td> <td>Reconciled</td>   | 427336   | 12-May-22 | SUKLE ADVERTISING INC.                | 69,570.00  | IRWD Check | Reconciled               |
| 427339       12-May-22       SUSAN A. SIROTA       4,850.00       IRWD Check       F         427340       12-May-22       TAYLOR MORRISON OF CALIFORNIA, LLC       473.84       IRWD Check       F         427342       12-May-22       TEKDRAULICS       20       IRWD Check       F      427342       12-May-22       TEKDRAULICS       2,603.97       IRWD Check       F         427343       12-May-22       THOMPSON & PHIPPS INC       7,576.15       IRWD Check       F         427344       12-May-22       TICRAT LR PROPERTIES       21,165.02       IRWD Check       F         427345       12-May-22       TORAY MEMBRANE USA, INC.       106,846.38       IRWD Check       F         427346       12-May-22       TORAY MEMBRANE USA, INC.       106,846.38       IRWD Check       F         427347       12-May-22       TRAFFIC MANAGEMENT, INC       1,36.00       IRWD Check       F         427348       12-May-22       TRAFFIC MANAGEMENT, INC       1,840       IRWD Check       F         427351       12-May-22       TRAFFIC MANAGEMENT, INC       1,840       IRWD Check       F         427353       12-May-22       UBERICATION SERVICES INC.       630       IRWD Check       F <td< td=""><td>427337</td><td>12-May-22</td><td>SUN, YEXIAO</td><td>177.09</td><td>IRWD Check</td><td>Negotiable</td></td<>   | 427337   | 12-May-22 | SUN, YEXIAO                           | 177.09     | IRWD Check | Negotiable               |
| 427340       12-May-22       TAYLOR MORRISON OF CALIFORNIA, LLC       473.84       IRWD Check       IRWD Check         427341       12-May-22       TEHRANI, ALIREZA       20       IRWD Check       IRWD Check         427343       12-May-22       TEMBANI, ALIREZA       20.03.PT       IRWD Check       IRWD Check         427343       12-May-22       THOMPSON & PHIPPS INC       7,576.15       IRWD Check       IRWD Check         427344       12-May-22       TIC-RETAIL PROPERTIES       21,665.02       IRWD Check       IRWD Check         427345       12-May-22       TORAL VERDE INDUSTRIES       286.08       IRWD Check       IRWD Check         427346       12-May-22       TORAL RESOURCE MANAGEMENT, INC       850       IRWD Check       IRWD Check         427348       12-May-22       TRAN, TIEN       29.14       IRWD Check       IRWD Check         427350       12-May-22       TRAN, TIEN       29.14       IRWD Check       IRWD Check         427351       12-May-22       ULVERIFICATION SERVICES INC.       630       IRWD Check       IRWD Check         427352       12-May-22       ULVERIFICATION SERVICE SINC.       630       IRWD Check       IRWD Check         427355       12-May-22       ULVERIFICATION SERVICE S  | 427338   | 12-May-22 | SUNSHINE SUPPLY COMPANY, INC.         | 5,469.39   | IRWD Check | Reconciled               |
| 427341       12-May-22       TEHRANI, ALIREZA       20       IRWD Check       M         427342       12-May-22       TEKDRAULCS       2,603.97       IRWD Check       M         427343       12-May-22       TIC-RETAIL PROPENTIES       21,165.02       IRWD Check       F         427344       12-May-22       TIC-RETAIL PROPERTIES       21,165.02       IRWD Check       F         427345       12-May-22       TIERRA VERDE INDUSTRIES       286.08       IRWD Check       F         427346       12-May-22       TOTAL RESOURCE MANAGEMENT, INC.       106,84.63       IRWD Check       F         427348       12-May-22       TRAFIC MANAGEMENT, INC       1,136.00       IRWD Check       F         427350       12-May-22       TRAFIC MANAGEMENT, INC       29,766.30       IRWD Check       F         427351       12-May-22       TRIKIP UMP COMPANY       20,766.30       IRWD Check       F         427353       12-May-22       UNERIFICATION SERVICE SINC.       630       IRWD Check       F         427354       12-May-22       UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA       5,853.46       IRWD Check       F         427355       12-May-22       UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA       5,853.46   | 427339   | 12-May-22 | SUSAN A. SIROTA                       | 4,850.00   | IRWD Check | Reconciled               |
| 427342       12-May-22       TEKDRAULICS       2,603.97       IRWD Check       M         427343       12-May-22       THOMPSON & PHIPPS INC       7,576.15       IRWD Check       F         427344       12-May-22       TIERRA VERDE INDUSTRIES       21,165.02       IRWD Check       F         427345       12-May-22       TORAY MEMBRANE USA, INC.       106,846.38       IRWD Check       F         427346       12-May-22       TORAY MEMBRANE USA, INC.       850       IRWD Check       F         427347       12-May-22       TORAY MEMBRANE USA, INC.       106,846.38       IRWD Check       F         427348       12-May-22       TRAFIC MANAGEMENT, INC       1,136.00       IRWD Check       F         427350       12-May-22       TRAT RESOURCE MANAGEMENT, INC       20,766.30       IRWD Check       F         427351       12-May-22       UNERLYTICS, LLC       4,750.00       IRWD Check       F         427353       12-May-22       UNTED PARCIE SINC.       630       IRWD Check       F         427355       12-May-22       UNTED PARCIE SINC.       561.6       IRWD Check       F         427354       12-May-22       UNTED PARCIE SINC.       562.5       IRWD Check       F  | 427340   | 12-May-22 | TAYLOR MORRISON OF CALIFORNIA, LLC    | 473.84     | IRWD Check | Negotiable               |
| 427343       12-May-22       THOMPSON & PHIPPS INC       7,576.15       IRWD Check       F         427344       12-May-22       TIC-RETALI PROPERTIES       21,165.02       IRWD Check       F         427345       12-May-22       TIERA VERDE INDUSTRIES       286.08       IRWD Check       F         427346       12-May-22       TORAT MEMBRANE USA, INC.       106,846.38       IRWD Check       F         427347       12-May-22       TORAT MEMBRANE USA, INC.       850       IRWD Check       F         427348       12-May-22       TRAFIC MANAGEMENT, INC       850       IRWD Check       F         427350       12-May-22       TRAN, TIEN       29.14       IRWD Check       F         427351       12-May-22       URERIVITOS, LLC       6.30       IRWD Check       F         427353       12-May-22       UNERICTION SERVICES INC.       6.30       IRWD Check       F         427354       12-May-22       UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA       5,853.46       IRWD Check       F         427355       12-May-22       UNDERGROUND SERVICE INC       562.5       IRWD Check       F         427355       12-May-22       USA MASTE OF CALIFORNIA, INC.       564.3       IRWD Check       F  |          | 12-May-22 |                                       |            |            | Negotiable               |
| 427344       12-May-22       TIC-RETAIL PROPERTIES       21,165.02       IRWD Check       F         427345       12-May-22       TIERRA VERDE INDUSTRIES       286.08       IRWD Check       F         427345       12-May-22       TOTAL RESOURCE MANAGEMENT, INC       106,840.38       IRWD Check       F         427347       12-May-22       TOTAL RESOURCE MANAGEMENT, INC       1,136.00       IRWD Check       F         427348       12-May-22       TRAFIC MANAGEMENT, INC       1,136.00       IRWD Check       F         427350       12-May-22       TRAFIC MANAGEMENT, INC       20,766.30       IRWD Check       F         427351       12-May-22       UBERLYTICS, LLC       4,750.00       IRWD Check       F         427352       12-May-22       UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA       5,853.46       IRWD Check       F         427353       12-May-22       UNTED PARCEL SERVICE INC.       36       IRWD Check       F         427354       12-May-22       UNTED PARCEL SERVICE INC.       562.5       IRWD Check       F         427355       12-May-22       UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA       583.46       IRWD Check       F         427355       12-May-22       VAS BLIBBOOK       5   |          | •         |                                       |            |            | Negotiable               |
| 427345       12-May-22       TIERRA VERDE INDUSTRIES       286.08       IRWD Check       F         427346       12-May-22       TORAY MEMBRANE USA, INC.       106,846.38       IRWD Check       F         427347       12-May-22       TORAY MEMBRANE USA, INC.       850       IRWD Check       F         427347       12-May-22       TRAFFIC MANAGEMENT, INC       1,136.00       IRWD Check       F         427348       12-May-22       TRAFTIC MANAGEMENT, INC       1,136.00       IRWD Check       F         427350       12-May-22       TRI COUNTY PUMP COMPANY       20,766.30       IRWD Check       F         427351       12-May-22       UNERFICATION SERVICES INC.       630       IRWD Check       F         427354       12-May-22       UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA       5,853.46       IRWD Check       F         427355       12-May-22       UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA       5,853.46       IRWD Check       F         427355       12-May-22       UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA       5,853.46       IRWD Check       F         427355       12-May-22       UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA       5,853.46       IRWD Check       F         427356       12-Ma   |          | -         |                                       |            |            | Reconciled               |
| 427346       12-May-22       TORAY MEMBRANE USA, INC.       106,846.38       IRWD Check       F         427347       12-May-22       TOTAL RESOURCE MANAGEMENT, INC       850       IRWD Check       F         427348       12-May-22       TRAFFIC MANAGEMENT, INC       1,136.00       IRWD Check       F         427349       12-May-22       TRAN, TIEN       29.14       IRWD Check       F         427350       12-May-22       TRI COUNTY PUMP COMPANY       20,766.30       IRWD Check       F         427351       12-May-22       UERLYTICS, LLC       4,750.00       IRWD Check       F         427353       12-May-22       UNDERGROUND SERVICES INC.       630       IRWD Check       F         427353       12-May-22       UNDERGROUND SERVICE INC       36       IRWD Check       F         427354       12-May-22       UNDERGROUND SERVICE INC       562.5       IRWD Check       F         427355       12-May-22       USA BULBBOOK       564       IRWD Check       F         427355       12-May-22       VUSA MASTE OF CALIFORNIA, INC.       58.34.4       IRWD Check       F         427356       12-May-22       VUCAN MATERIALS COMPANY       1,570.94       IRWD Check       F  |          | -         |                                       |            |            | Reconciled               |
| 427347       12-May-22       TOTAL RESOURCE MANAGEMENT, INC       850       IRWD Check       F         427348       12-May-22       TRAFFIC MANAGEMENT, INC       1,136.00       IRWD Check       F         427349       12-May-22       TRAN, TIEN       29.14       IRWD Check       F         427350       12-May-22       TRI COUNTY PUMP COMPANY       20,766.30       IRWD Check       F         427351       12-May-22       UBERLYTICS, LLC       4,750.00       IRWD Check       F         427353       12-May-22       UN UPERGROUND SERVICES INC.       630       IRWD Check       F         427354       12-May-22       UNITED PARCEL SERVICE ALERT OF SOUTHERN CALIFORNIA       5,853.46       IRWD Check       F         427355       12-May-22       UNITED PARCEL SERVICE INC.       630       IRWD Check       F         427355       12-May-22       USA BLUEBOOK       564       IRWD Check       F         427356       12-May-22       VAUGHAN'S INDUSTRIAL REPAIR CO INC       6,988.43       IRWD Check       F         427359       12-May-22       VUCAN MATERIALS COMPANY       1,570.94       IRWD Check       F         427360       12-May-22       VURISTRIAL SYSTEMS, LLC       11,647.11       IRWD Check <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>Reconciled</td>   |          | -         |                                       |            |            | Reconciled               |
| 427348       12-May-22       TRAFFIC MANAGEMENT, INC       1,136.00       IRWD Check       F         427349       12-May-22       TRAN, TIEN       29.14       IRWD Check       M         427350       12-May-22       TRI COUNTY PUMP COMPANY       20,766.30       IRWD Check       F         427351       12-May-22       UBERLYTICS, LLC       4,750.00       IRWD Check       F         427352       12-May-22       UN VERIFICATION SERVICES INC.       630       IRWD Check       F         427355       12-May-22       UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA       5,853.46       IRWD Check       F         427355       12-May-22       UNDERGROUND SERVICE INC       36       IRWD Check       F         427356       12-May-22       USA BLUEBOOK       562.5       IRWD Check       F         427356       12-May-22       VAUGHAN'S INDUSTRIAL REPAIR CO INC       6,988.43       IRWD Check       F         427357       12-May-22       VAUGAN MATERIALS COMPANY       1,570.94       IRWD Check       F         427359       12-May-22       VERTECH INDUSTRIAL SYSTEMS, LLC       1,1647.11       IRWD Check       F         427361       12-May-22       VER INTERNATIONAL, LLC       2,161.25       IRWD Check  |          | -         |                                       |            |            | Reconciled<br>Reconciled |
| 427349       12-May-22       TRAN, TIEN       29.14       IRWD Check       M         427350       12-May-22       TRI COUNTY PUMP COMPANY       20,766.30       IRWD Check       F         427351       12-May-22       UBERLYTICS, LLC       4,750.00       IRWD Check       F         427352       12-May-22       UL VERIFICATION SERVICES INC.       630       IRWD Check       F         427353       12-May-22       UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA       5,853.46       IRWD Check       F         427355       12-May-22       UNITED PARCEL SERVICE INC       36       IRWD Check       F         427356       12-May-22       USA BLUEBOOK       564       IRWD Check       F         427357       12-May-22       VAUGHAN'S INDUSTRIAL REPAIR CO INC       562.5       IRWD Check       F         427357       12-May-22       VAUGAN/STEMS, LLC       11,647.11       IRWD Check       F         427359       12-May-22       VULCAN MATERIALS COMPANY       1,570.94       IRWD Check       F         427360       12-May-22       VULCAN MATERIALS COMPANY       1,570.94       IRWD Check       F         427361       12-May-22       WASTE MANAGEMENT COLLECTIONS AND RECYCLING, INC.       2,769.52   |          | -         | -                                     |            |            | Reconciled               |
| 427350       12-May-22       TRI COUNTY PUMP COMPANY       20,766.30       IRWD Check       F         427351       12-May-22       UBERLYTICS, LLC       4,750.00       IRWD Check       F         427352       12-May-22       UL VERIFICATION SERVICES INC.       630       IRWD Check       F         427353       12-May-22       UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA       5,853.46       IRWD Check       F         427354       12-May-22       UNTED PARCEL SERVICE INC       36       IRWD Check       F         427355       12-May-22       USA BLUEBOOK       564       IRWD Check       F         427356       12-May-22       VSA WASTE OF CALIFORNIA, INC.       562.5       IRWD Check       F         427357       12-May-22       VAUGHAN'S INDUSTRIAL REPAIR CO INC       6,988.43       IRWD Check       F         427359       12-May-22       VULCAN MATERIALS COMPANY       1,570.94       IRWD Check       F         427360       12-May-22       WR INTERNATIONAL, LLC       2,769.52       IRWD Check       F         427361       12-May-22       WASTE MANAGEMENT COLLECTIONS AND RECYCLING, INC.       2,769.52       IRWD Check       F         427361       12-May-22       WASTE MANAGEMENT COLLECTIONS AND RECYCLI  |          |           | -                                     | ,          |            | Negotiable               |
| 427351       12-May-22       UBERLYTICS, LLC       4,750.00       IRWD Check       F         427352       12-May-22       UL VERIFICATION SERVICES INC.       630       IRWD Check       F         427353       12-May-22       UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA       5,853.46       IRWD Check       F         427354       12-May-22       UNIED PARCEL SERVICE INC       36       IRWD Check       F         427355       12-May-22       USA BLUEBOOK       564       IRWD Check       F         427355       12-May-22       USA BLUEBOOK       562.5       IRWD Check       F         427356       12-May-22       VAUGHAN'S INDUSTRIAL REPAIR CO INC       6,988.43       IRWD Check       F         427358       12-May-22       VERTECH INDUSTRIAL SYSTEMS, LLC       11,647.11       IRWD Check       F         427350       12-May-22       VULCAN MATERIALS COMPANY       1,570.94       IRWD Check       F         427360       12-May-22       WASTE MANAGEMENT COLLECTIONS AND RECYCLING, INC.       2,161.25       IRWD Check       F         427361       12-May-22       WASTE MANAGEMENT COLLECTIONS AND RECYCLING, INC.       310.93       IRWD Check       F         427363       12-May-22       WASTE OAST SAND & GRAVEL  |          | -         |                                       |            |            | Reconciled               |
| 427352       12-May-22       UL VERIFICATION SERVICES INC.       630       IRWD Check.       F         427353       12-May-22       UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA       5,853.46       IRWD Check.       F         427354       12-May-22       UNITED PARCEL SERVICE INC       36       IRWD Check.       F         427355       12-May-22       USA BLUEBOOK       564       IRWD Check.       F         427355       12-May-22       USA BLUEBOOK       562.5       IRWD Check.       F         427357       12-May-22       VAUGHAN'S INDUSTRIAL REPAIR CO INC       6,988.43       IRWD Check.       F         427358       12-May-22       VERTECH INDUSTRIAL REPAIR CO INC       11,647.11       IRWD Check.       F         427359       12-May-22       VULCAN MATERIALS COMPANY       1,570.94       IRWD Check.       F         427361       12-May-22       WAR INTERNATIONAL, LLC       2,161.25       IRWD Check.       F         427363       12-May-22       WAR INTERNATIONAL, SINC.       310.93       IRWD Check.       F         427363       12-May-22       WASTE MANAGEMENT COLLECTIONS AND RECYCLING, INC.       2,769.52       IRWD Check.       F         427363       12-May-22       WASTE MANAGEMENT COLLECTIONS  |          | -         |                                       | ,          |            | Reconciled               |
| 427353       12-May-22       UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA       5,853.46       IRWD Check       F         427354       12-May-22       UNITED PARCEL SERVICE INC       36       IRWD Check       F         427355       12-May-22       USA BLUEBOOK       564       IRWD Check       F         427355       12-May-22       USA WASTE OF CALIFORNIA, INC.       562.5       IRWD Check       F         427357       12-May-22       VAUGHAN'S INDUSTRIAL REPAIR CO INC       6,988.43       IRWD Check       F         427358       12-May-22       VERTECH INDUSTRIAL SYSTEMS, LLC       11,647.11       IRWD Check       F         427350       12-May-22       VERTECH INDUSTRIAL SOMPANY       1,570.94       IRWD Check       F         427360       12-May-22       VULCAN MATERIALS COMPANY       2,161.25       IRWD Check       F         427361       12-May-22       WASTE MANAGEMENT COLLECTIONS AND RECYCLING, INC.       2,769.52       IRWD Check       F         427363       12-May-22       WASTE MANAGEMENT COLLECTIONS AND RECYCLING, INC.       335       IRWD Check       F         427363       12-May-22       WASTE MANAGEMENT COLLECTIONS, INC.       335       IRWD Check       F         427364       12-May-22  |          | -         |                                       |            |            | Reconciled               |
| 427354       12-May-22       UNITED PARCEL SERVICE INC       36       IRWD Check       F         427355       12-May-22       USA BLUEBOOK       564       IRWD Check       F         427356       12-May-22       USA WASTE OF CALIFORNIA, INC.       562.5       IRWD Check       F         427357       12-May-22       VAUGHAN'S INDUSTRIAL REPAIR CO INC       6,988.43       IRWD Check       F         427358       12-May-22       VERTECH INDUSTRIAL SYSTEMS, LLC       11,647.11       IRWD Check       F         427359       12-May-22       VULCAN MATERIALS COMPANY       1,570.94       IRWD Check       F         427360       12-May-22       VWR INTERNATIONAL, LLC       2,161.25       IRWD Check       F         427361       12-May-22       WASTE MANAGEMENT COLLECTIONS AND RECYCLING, INC.       2,769.52       IRWD Check       F         427362       12-May-22       WAXIE'S ENTERPRISES, INC       310.93       IRWD Check       F         427363       12-May-22       WAXIE'S COAST SAND & GRAVEL INC.       335       IRWD Check       F         427365       12-May-22       WEST AMERICA COMMUNICATIONS, INC.       600       IRWD Check       F         427366       12-May-22       WEST AMERICA COMMUNICATIONS, INC.   |          | -         |                                       |            |            | Reconciled               |
| 42735512-May-22USA BLUEBOOK564IRWD CheckF42735612-May-22USA WASTE OF CALIFORNIA, INC.562.5IRWD CheckF42735712-May-22VAUGHAN'S INDUSTRIAL REPAIR CO INC6,988.43IRWD CheckF42735812-May-22VERTECH INDUSTRIAL SYSTEMS, LLC11,647.11IRWD CheckF42735912-May-22VULCAN MATERIALS COMPANY1,570.94IRWD CheckF42736012-May-22VWR INTERNATIONAL, LLC2,161.25IRWD CheckF42736112-May-22WASTE MANAGEMENT COLLECTIONS AND RECYCLING, INC.2,769.52IRWD CheckF42736212-May-22WASTE SENTERPRISES, INC310.93IRWD CheckF42736312-May-22WECK LABORATORIES INC335IRWD CheckF42736412-May-22WEST COAST SAND & GRAVEL INC.934.6IRWD CheckF42736512-May-22WEST AMERICA COMMUNICATIONS, INC.600IRWD CheckF42736612-May-22WISCONSIN STATE LABORATORY OF HYGIENE1,015.00IRWD CheckF42736812-May-22YSI, INC3,771.25IRWD CheckF42736912-May-22YSI, INC3,771.25IRWD CheckF42736912-May-22PACIFIC HYDROTECH CORPORATION215,194.08IRWD CheckF42736912-May-22PACIFIC HYDROTECH CORPORATION11,326.01IRWD CheckF  |          |           |                                       |            |            | Reconciled               |
| 427357       12-May-22       VAUGHAN'S INDUSTRIAL REPAIR CO INC       6,988.43       IRWD Check       F         427358       12-May-22       VERTECH INDUSTRIAL SYSTEMS, LLC       11,647.11       IRWD Check       F         427359       12-May-22       VULCAN MATERIALS COMPANY       1,570.94       IRWD Check       F         427360       12-May-22       VWR INTERNATIONAL, LLC       2,161.25       IRWD Check       F         427361       12-May-22       WASTE MANAGEMENT COLLECTIONS AND RECYCLING, INC.       2,769.52       IRWD Check       F         427362       12-May-22       WASTE MANAGEMENT COLLECTIONS AND RECYCLING, INC.       2,769.52       IRWD Check       F         427363       12-May-22       WAXIE'S ENTERPRISES, INC       310.93       IRWD Check       F         427364       12-May-22       WEST COAST SAND & GRAVEL INC.       934.6       IRWD Check       F         427365       12-May-22       WEST COAST SAND & GRAVEL INC.       934.6       IRWD Check       F         427365       12-May-22       WEST COAST SAND & GRAVEL INC.       934.6       IRWD Check       F         427366       12-May-22       WESTAMERICA COMMUNICATIONS, INC.       600       IRWD Check       F         427366       12-May-22   |          | -         | USA BLUEBOOK                          | 564        | IRWD Check | Reconciled               |
| 427358       12-May-22       VERTECH INDUSTRIAL SYSTEMS, LLC       11,647.11       IRWD Check       F         427359       12-May-22       VULCAN MATERIALS COMPANY       1,570.94       IRWD Check       F         427360       12-May-22       VWR INTERNATIONAL, LLC       2,161.25       IRWD Check       F         427361       12-May-22       WASTE MANAGEMENT COLLECTIONS AND RECYCLING, INC.       2,769.52       IRWD Check       F         427362       12-May-22       WASTE MANAGEMENT COLLECTIONS AND RECYCLING, INC.       2,769.52       IRWD Check       F         427363       12-May-22       WASTE MANAGEMENT COLLECTIONS AND RECYCLING, INC.       310.93       IRWD Check       F         427363       12-May-22       WASTE MANAGEMENT COLLECTIONS AND RECYCLING, INC.       335       IRWD Check       F         427363       12-May-22       WECK LABORATORIES INC       335       IRWD Check       F         427364       12-May-22       WEST COAST SAND & GRAVEL INC.       934.6       IRWD Check       F         427365       12-May-22       WEST COAST SAND & GRAVEL INC.       934.6       IRWD Check       F         427366       12-May-22       WESTAMERICA COMMUNICATIONS, INC.       600       IRWD Check       F         427366  | 427356   | 12-May-22 | USA WASTE OF CALIFORNIA, INC.         | 562.5      | IRWD Check | Reconciled               |
| 427359       12-May-22       VULCAN MATERIALS COMPANY       1,570.94       IRWD Check       F         427360       12-May-22       VWR INTERNATIONAL, LLC       2,161.25       IRWD Check       F         427361       12-May-22       WASTE MANAGEMENT COLLECTIONS AND RECYCLING, INC.       2,769.52       IRWD Check       F         427362       12-May-22       WASTE MANAGEMENT COLLECTIONS AND RECYCLING, INC.       2,769.52       IRWD Check       F         427362       12-May-22       WASTE MANAGEMENT COLLECTIONS AND RECYCLING, INC.       310.93       IRWD Check       F         427363       12-May-22       WASTE MANAGEMENT COLLECTIONS, INC.       335       IRWD Check       F         427363       12-May-22       WECK LABORATORIES INC       335       IRWD Check       F         427364       12-May-22       WEST COAST SAND & GRAVEL INC.       934.6       IRWD Check       F         427365       12-May-22       WESTAMERICA COMMUNICATIONS, INC.       600       IRWD Check       F         427366       12-May-22       WITLEY, MARGARET       248.33       IRWD Check       F         427368       12-May-22       VSI, INC       3,771.25       IRWD Check       F         427369       12-May-22       YSI, INC       <   | 427357   | 12-May-22 | VAUGHAN'S INDUSTRIAL REPAIR CO INC    | 6,988.43   | IRWD Check | Reconciled               |
| 427360       12-May-22       VWR INTERNATIONAL, LLC       2,161.25       IRWD Check       F         427361       12-May-22       WASTE MANAGEMENT COLLECTIONS AND RECYCLING, INC.       2,769.52       IRWD Check       F         427362       12-May-22       WASTE MANAGEMENT COLLECTIONS AND RECYCLING, INC.       310.93       IRWD Check       F         427363       12-May-22       WAXIE'S ENTERPRISES, INC       335       IRWD Check       F         427363       12-May-22       WECK LABORATORIES INC       335       IRWD Check       F         427364       12-May-22       WEST COAST SAND & GRAVEL INC.       934.6       IRWD Check       F         427365       12-May-22       WEST AMERICA COMMUNICATIONS, INC.       600       IRWD Check       F         427366       12-May-22       WHITLEY, MARGARET       248.33       IRWD Check       F         427367       12-May-22       WISCONSIN STATE LABORATORY OF HYGIENE       1,015.00       IRWD Check       F         427368       12-May-22       YSI, INC       3,771.25       IRWD Check       F         427369       12-May-22       PACIFIC HYDROTECH CORPORATION       215,194.08       IRWD Check       F         427370       12-May-22       PACIFIC HYDROTECH CORPORATION <td>427358</td> <td>12-May-22</td> <td>VERTECH INDUSTRIAL SYSTEMS, LLC</td> <td>11,647.11</td> <td></td> <td>Reconciled</td>                               | 427358   | 12-May-22 | VERTECH INDUSTRIAL SYSTEMS, LLC       | 11,647.11  |            | Reconciled               |
| 427361       12-May-22       WASTE MANAGEMENT COLLECTIONS AND RECYCLING, INC.       2,769.52       IRWD Check       F         427362       12-May-22       WAXIE'S ENTERPRISES, INC       310.93       IRWD Check       F         427363       12-May-22       WECK LABORATORIES INC       335       IRWD Check       F         427364       12-May-22       WEST COAST SAND & GRAVEL INC.       934.6       IRWD Check       F         427365       12-May-22       WEST COAST SAND & GRAVEL INC.       934.6       IRWD Check       F         427365       12-May-22       WESTAMERICA COMMUNICATIONS, INC.       600       IRWD Check       F         427366       12-May-22       WHITLEY, MARGARET       248.33       IRWD Check       F         427367       12-May-22       WISCONSIN STATE LABORATORY OF HYGIENE       1,015.00       IRWD Check       F         427368       12-May-22       YSI, INC       3,771.25       IRWD Check       F         427369       12-May-22       PACIFIC HYDROTECH CORPORATION       215,194.08       IRWD Check       F         427370       12-May-22       PACIFIC HYDROTECH CORPORATION       11,326.01       IRWD Check       F   | 427359   | 12-May-22 | VULCAN MATERIALS COMPANY              | 1,570.94   | IRWD Check | Reconciled               |
| 427362       12-May-22       WAXIE'S ENTERPRISES, INC       310.93       IRWD Check       F         427363       12-May-22       WECK LABORATORIES INC       335       IRWD Check       F         427364       12-May-22       WEST COAST SAND & GRAVEL INC.       934.6       IRWD Check       F         427365       12-May-22       WEST COAST SAND & GRAVEL INC.       934.6       IRWD Check       F         427365       12-May-22       WESTAMERICA COMMUNICATIONS, INC.       600       IRWD Check       F         427366       12-May-22       WHITLEY, MARGARET       248.33       IRWD Check       F         427367       12-May-22       WISCONSIN STATE LABORATORY OF HYGIENE       1,015.00       IRWD Check       F         427368       12-May-22       YSI, INC       3,771.25       IRWD Check       F         427369       12-May-22       PACIFIC HYDROTECH CORPORATION       215,194.08       IRWD Check       F         427370       12-May-22       PACIFIC HYDROTECH CORPORATION       11,326.01       IRWD Check       F   |          | -         |                                       |            |            | Reconciled               |
| 427363       12-May-22       WECK LABORATORIES INC       335       IRWD Check       F         427364       12-May-22       WEST COAST SAND & GRAVEL INC.       934.6       IRWD Check       F         427365       12-May-22       WESTAMERICA COMMUNICATIONS, INC.       600       IRWD Check       F         427366       12-May-22       WESTAMERICA COMMUNICATIONS, INC.       600       IRWD Check       F         427366       12-May-22       WHITLEY, MARGARET       248.33       IRWD Check       F         427367       12-May-22       WISCONSIN STATE LABORATORY OF HYGIENE       1,015.00       IRWD Check       F         427368       12-May-22       YSI, INC       3,771.25       IRWD Check       F         427369       12-May-22       PACIFIC HYDROTECH CORPORATION       215,194.08       IRWD Check       F         427370       12-May-22       PACIFIC HYDROTECH CORPORATION       11,326.01       IRWD Check       F  |          | -         |                                       |            |            | Reconciled               |
| 427364       12-May-22       WEST COAST SAND & GRAVEL INC.       934.6       IRWD Check       F         427365       12-May-22       WESTAMERICA COMMUNICATIONS, INC.       600       IRWD Check       F         427366       12-May-22       WHITLEY, MARGARET       248.33       IRWD Check       F         427367       12-May-22       WISCONSIN STATE LABORATORY OF HYGIENE       1,015.00       IRWD Check       F         427368       12-May-22       YSI, INC       3,771.25       IRWD Check       F         427369       12-May-22       PACIFIC HYDROTECH CORPORATION       215,194.08       IRWD Check       F         427370       12-May-22       PACIFIC HYDROTECH CORPORATION       11,326.01       IRWD Check       F   |          | -         |                                       |            |            | Reconciled               |
| 427365       12-May-22       WESTAMERICA COMMUNICATIONS, INC.       600       IRWD Check       F         427365       12-May-22       WHITLEY, MARGARET       248.33       IRWD Check       F         427367       12-May-22       WISCONSIN STATE LABORATORY OF HYGIENE       1,015.00       IRWD Check       F         427368       12-May-22       YSI, INC       3,771.25       IRWD Check       F         427369       12-May-22       PACIFIC HYDROTECH CORPORATION       215,194.08       IRWD Check       F         427370       12-May-22       PACIFIC HYDROTECH CORPORATION       11,326.01       IRWD Check       F   |          | -         |                                       |            |            | Reconciled               |
| 427366       12-May-22       WHITLEY, MARGARET       248.33       IRWD Check       F         427367       12-May-22       WISCONSIN STATE LABORATORY OF HYGIENE       1,015.00       IRWD Check       F         427368       12-May-22       YSI, INC       3,771.25       IRWD Check       F         427369       12-May-22       PACIFIC HYDROTECH CORPORATION       215,194.08       IRWD Check       F         427370       12-May-22       PACIFIC HYDROTECH CORPORATION       11,326.01       IRWD Check       F  |          | -         |                                       |            |            | Reconciled               |
| 427367         12-May-22         WISCONSIN STATE LABORATORY OF HYGIENE         1,015.00         IRWD Check         F           427368         12-May-22         YSI, INC         3,771.25         IRWD Check         F           427369         12-May-22         PACIFIC HYDROTECH CORPORATION         215,194.08         IRWD Check         F           427370         12-May-22         PACIFIC HYDROTECH CORPORATION         11,326.01         IRWD Check         F   |          | -         |                                       |            |            | Reconciled               |
| 427368         12-May-22         YSI, INC         3,771.25         IRWD Check         F           427369         12-May-22         PACIFIC HYDROTECH CORPORATION         215,194.08         IRWD Check         F           427370         12-May-22         PACIFIC HYDROTECH CORPORATION         11,326.01         IRWD Check         F  |          | -         |                                       |            |            | Reconciled               |
| 427369         12-May-22         PACIFIC HYDROTECH CORPORATION         215,194.08         IRWD Check         F           427370         12-May-22         PACIFIC HYDROTECH CORPORATION         11,326.01         IRWD Check         F  |          | -         |                                       |            |            | Reconciled               |
| 427370 12-May-22 PACIFIC HYDROTECH CORPORATION 11,326.01 IRWD Check F   |          | -         |                                       |            |            | Reconciled<br>Reconciled |
|   |          | -         |                                       |            |            | Reconciled               |
|   |          | -         |                                       |            |            | Reconciled               |
|   |          | -         |                                       |            |            | Reconciled               |
|   |          | -         |                                       |            |            | Negotiable               |
|   |          | -         |                                       |            |            | Reconciled               |
| D-/   |          |           | D - /                                 |            |            |                          |

| CHECK OR         |                        |   |                | PAYMENT    |            |
|------------------|------------------------|---|----------------|------------|------------|
| ELECTRONIC #     | PAYMENT DATE           | SUPPLIERS   | PAYMENT AMOUNT | METHOD     | STATUS     |
| 427375           | 19-May-22              | Joseph, Brandon                                     | 483.91         | IRWD Check | Reconciled |
| 427376           | 19-May-22              | A&Y ASPHALT CONTRACTORS, INC.                       | 1,200.00       | IRWD Check | Reconciled |
| 427377           | 19-May-22              | ACCUSTANDARD INC                                    | 304.97         | IRWD Check | Reconciled |
| 427378           | 19-May-22              | ADAMS, AMANDA                                       | 114.23         | IRWD Check | Negotiable |
| 427379           | 19-May-22              | AGILENT TECHNOLOGIES, INC.                          | 472.9          | IRWD Check | Reconciled |
| 427380           | 19-May-22              | AIR TECHNOLOGY LABORATORIES                         | 503            | IRWD Check | Reconciled |
| 427381           | 19-May-22              | AIRGAS, INC.  | 651.39         | IRWD Check | Reconciled |
| 427382           | 19-May-22              | ALCOR SOLUTIONS, INC                                | 5,400.00       | IRWD Check | Reconciled |
| 427383           | 19-May-22              | AMAZON CAPITAL SERVICES, INC.                       | 1,830.92       | IRWD Check | Reconciled |
| 427384           | 19-May-22              | ANTHEM BLUE CROSS                                   | 306.93         | IRWD Check | Reconciled |
| 427385           | 19-May-22              | APCO GRAPHICS INC                                   | 107.75         | IRWD Check | Reconciled |
| 427386           | 19-May-22              | ASGHARIPARI, SEYEDMOHAMMAD                          | 39.1           | IRWD Check | Negotiable |
| 427387           | 19-May-22              | ASSOCIATION OF CALIFORNIA WATER AGENCIES/JPIA       | 38,138.78      | IRWD Check | Reconciled |
| 427388           | 19-May-22              | AT&T  | 98.67          | IRWD Check | Reconciled |
| 427390           | 19-May-22              | AT&T  | 178.46         | IRWD Check | Reconciled |
| 427391           | 19-May-22              | AUTOZONE PARTS, INC.                                | 1,087.06       | IRWD Check | Reconciled |
| 427392           | 19-May-22              | BIOMAGIC INC  | 8,627.01       | IRWD Check | Reconciled |
| 427393           | 19-May-22              | BLAIRS TOWING INC                                   | 248            | IRWD Check | Reconciled |
| 427394           | 19-May-22              | BORCHARD SURVEYING & MAPPING, INC.                  | 6,270.00       | IRWD Check | Reconciled |
| 427395           | ,<br>19-May-22         | CALIFORNIA BARRICADE RENTAL, INC.                   | 7,830.25       | IRWD Check | Reconciled |
| 427396           | 19-May-22              | CALIFORNIA DEPARTMENT OF TAX AND FEE ADMINISTRATION | 2,911.00       | IRWD Check | Reconciled |
| 427397           | 19-May-22              | CALIFORNIA WATER EFFICIENCY PARTNERSHIP             | 464.76         | IRWD Check | Reconciled |
| 427398           | 19-May-22              | CANNON CORPORATION                                  | 2,948.75       | IRWD Check | Reconciled |
| 427399           | 19-May-22              | CANON FINANCIAL SERVICES, INC                       | 8,332.75       | IRWD Check | Reconciled |
| 427400           | 19-May-22              | CANON SOLUTIONS AMERICA, INC.                       | 2,246.94       | IRWD Check | Reconciled |
| 427400           | 19-May-22              | CENTROID SYSTEMS, INC.                              | 2,240.94       | IRWD Check | Reconciled |
| 427401           | 19-May-22              | CHEM TECH INTERNATIONAL INC                         | 12,827.28      | IRWD Check | Reconciled |
| 427402           | 19-May-22              | CNC ENGINEERING                                     | 9,840.00       | IRWD Check | Reconciled |
| 427403           | -                      |   | 360            | IRWD Check | Negotiable |
|                  | 19-May-22              | COASTAL OCCUPATIONAL MEDICAL GROUP, INC.            |                |            | -          |
| 427405           | 19-May-22              | COLE-PARMER INSTRUMENT CO                           | 1,050.03       | IRWD Check | Reconciled |
| 427406           | 19-May-22              | CONSTELLATION NEWENERGY, INC.                       | 31,000.47      | IRWD Check | Negotiable |
| 427407           | 19-May-22              | COTTONS POINT DESIGN, INC.                          | 2,469.08       | IRWD Check | Reconciled |
| 427408           | 19-May-22              |   | 3,342.50       | IRWD Check | Reconciled |
| 427409           | 19-May-22              | CV TECHNOLOGY, INC.                                 | 33,989.99      | IRWD Check | Reconciled |
| 427410           | 19-May-22              | DECISIONPOINT SYSTEMS INC                           | 316.59         | IRWD Check | Reconciled |
| 427411           | 19-May-22              | DILYTICS INC  | 6,210.00       | IRWD Check | Negotiable |
| 427412           | 19-May-22              | DIRECTV INC   | 146.99         | IRWD Check | Reconciled |
| 427413           | 19-May-22              | DO, ALAN  | 54.07          | IRWD Check | Reconciled |
| 427414           | 19-May-22              | DRAKE TRAFFIC CONTROL SERVICES INC                  | 840            | IRWD Check | Reconciled |
| 427415           | 19-May-22              | EMD MILLIPORE CORP.                                 | 724.08         | IRWD Check | Reconciled |
| 427416           | 19-May-22              | ENVIRONMENTAL ENGINEERING AND CONTRACTING, INC.     | 38,316.25      | IRWD Check | Reconciled |
| 427417           | 19-May-22              | EUROFINS ENVIRONMENT TESTING AMERICA HOLDINGS, INC. | 2,188.50       | IRWD Check | Reconciled |
| 427418           | 19-May-22              | FAN, RUOBING  | 176.22         | IRWD Check | Reconciled |
| 427419           | 19-May-22              | FEDEX   | 305.06         | IRWD Check | Reconciled |
| 427420           | 19-May-22              | FIREHOSEDIRECT.COM                                  | 137.41         | IRWD Check | Reconciled |
| 427421           | 19-May-22              | FIRST CHOICE SERVICES                               | 1,131.17       | IRWD Check | Reconciled |
| 427422           | 19-May-22              | FISHER SCIENTIFIC COMPANY LLC                       | 1,122.01       | IRWD Check | Reconciled |
| 427423           | 19-May-22              | FRONTIER CALIFORNIA INC.                            | 292.72         | IRWD Check | Reconciled |
| 427424           | 19-May-22              | GANAHL LUMBER CO.                                   | 685.5          | IRWD Check | Reconciled |
| 427425           | 19-May-22              | GANNETT FLEMING, INC.                               | 17,808.00      | IRWD Check | Reconciled |
| 427426           | 19-May-22              | GCI CONSTRUCTION, INC.                              | 14,049.25      | IRWD Check | Reconciled |
| 427427           | 19-May-22              | GEI CONSULTANTS INC                                 | 24,561.48      | IRWD Check | Reconciled |
| 427428           | 19-May-22              | GEIGER BROS   | 3,647.33       | IRWD Check | Reconciled |
| 427429           | 19-May-22              | GEOSYNTEC CONSULTANTS, INC.                         | 31,148.59      | IRWD Check | Reconciled |
| 427430           | 19-May-22              | GONZALEZ MUNOZ, LETICIA                             | 55.13          | IRWD Check | Reconciled |
| 427431           | 19-May-22              | GRAINGER  | 10,861.63      | IRWD Check | Reconciled |
| 427432           | 19-May-22              | GRAYBAR ELECTRIC COMPANY                            | 347.08         | IRWD Check | Reconciled |
| 427433           | 19-May-22              | GSRP ST SOLAR I LLC                                 | 14,498.85      | IRWD Check | Reconciled |
| 427434           | 19-May-22              | HAAKER EQUIPMENT COMPANY                            | 991.3          | IRWD Check | Reconciled |
| 427435           | 19-May-22              | HACH COMPANY  | 3,150.46       | IRWD Check | Reconciled |
| 427436           | 19-May-22              | HARRINGTON INDUSTRIAL PLASTICS LLC                  | 10,325.24      | IRWD Check | Reconciled |
| 427430           | 19-May-22              | HELPMATES STAFFING SERVICES LLC                     | 6,757.21       | IRWD Check | Reconciled |
| 427437<br>427438 | -                      | HELPMATES STAFFING SERVICES LLC<br>HI-LINE INC      | 349.74         | IRWD Check | Reconciled |
|                  | 19-May-22<br>19-May-22 |   |                |            | Reconciled |
| 427439           | 19-May-22              | HIJAZI, MOHAMED                                     | 22.77          | IRWD Check |            |
| 427440           | 19-May-22              | HILL BROTHERS CHEMICAL COMPANY                      | 10,764.13      | IRWD Check | Reconciled |
| 427441           | 19-May-22              | HINTON, LISA  | 32.53          | IRWD Check | Negotiable |
| 427442           | 19-May-22              | HUMANA INSURANCE COMPANY                            | 75.3           | IRWD Check | Reconciled |
| 427443           | 19-May-22              | ICHIBANYA USA INC D - 8                             | 929.89         | IRWD Check | Negotiable |

| CHECK OR |                        |   |                            | PAYMENT                  | STATUS     |
|----------|------------------------|---|----------------------------|--------------------------|------------|
| 427444   | PAYMENT DATE           | SUPPLIERS<br>IDEXX DISTRIBUTION, INC              | PAYMENT AMOUNT<br>7,053.29 | METHOD                   | Reconcilec |
| 427444   | 19-May-22<br>19-May-22 | INTEGRITY MUNICIPAL SERVICES LLC                  | 2,575.00                   | IRWD Check<br>IRWD Check | Reconciled |
| 427445   | -                      |   |                            |                          |            |
|          | 19-May-22              | INTRACORP SOUTHERN CALIFORNIA LLC                 | 355.03                     | IRWD Check               | Negotiable |
| 427447   | 19-May-22              | IRON MOUNTAIN INFORMATION MANAGEMENT INC          | 676.61                     | IRWD Check               | Reconciled |
| 427448   | 19-May-22              |   | 935.89                     | IRWD Check               | Negotiable |
| 427449   | 19-May-22              | IRVINE PIPE & SUPPLY INC                          | 12,162.11                  | IRWD Check               | Reconcilec |
| 427450   | 19-May-22              | IRWD-PETTY CASH CUSTODIAN                         | 674.24                     | IRWD Check               | Reconcilec |
| 427451   | 19-May-22              | JCI JONES CHEMICALS INC                           | 6,547.50                   | IRWD Check               | Reconcileo |
| 427452   | 19-May-22              | JOHN MICHAEL COVAS                                | 216.9                      | IRWD Check               | Negotiable |
| 427453   | 19-May-22              | JOHNSEN, ERIN                                     | 349.79                     | IRWD Check               | Negotiable |
| 427454   | 19-May-22              | JONSET LLC  | 836                        | IRWD Check               | Reconcilec |
| 427455   | 19-May-22              | KROOT, RICHARD                                    | 884.99                     | IRWD Check               | Reconcilec |
| 427456   | 19-May-22              | LA HABRA FENCE COMPANY INC                        | 5,169.00                   | IRWD Check               | Reconcileo |
| 427457   | 19-May-22              | LCS TECHNOLOGIES, INC.                            | 1,080.00                   | IRWD Check               | Negotiable |
| 427458   | 19-May-22              | LINDE GAS & EQUIPMENT INC.                        | 289.81                     | IRWD Check               | Reconcileo |
| 427459   | 19-May-22              | LOPEZ, RENEE                                      | 25.63                      | IRWD Check               | Negotiable |
| 427460   | 19-May-22              | MAP COMMUNICATIONS, INC.                          | 847.95                     | IRWD Check               | Reconcileo |
| 427461   | 19-May-22              | MARJAN, MANOUCHEHR                                | 41.47                      | IRWD Check               | Negotiable |
| 427462   | 19-May-22              | MATHESON TRI GAS, INC                             | 15.79                      | IRWD Check               | Reconcileo |
| 427463   | 19-May-22              | MC FADDEN-DALE INDUSTRIAL                         | 81.06                      | IRWD Check               | Reconcileo |
| 427464   | 19-May-22              | MC MASTER CARR SUPPLY CO                          | 551.94                     | IRWD Check               | Reconcileo |
| 427465   | 19-May-22              | MCR TECHNOLOGIES INC                              | 5,058.86                   | IRWD Check               | Reconcile  |
| 427466   | 19-May-22              | MICROSOFT CORPORATION                             | 20                         | IRWD Check               | Reconcileo |
| 427467   | 19-May-22              | MILES CHEMICAL COMPANY, INC.                      | 6,186.34                   | IRWD Check               | Reconcileo |
| 427468   | 19-May-22              | MSC INDUSTRIAL SUPPLY CO                          | 612.74                     | IRWD Check               | Reconcileo |
| 427469   | 19-May-22              | MYERS & SONS HI-WAY SAFETY, INC.                  | 4,111.36                   | IRWD Check               | Reconcileo |
| 427470   | 19-May-22              | NATIONAL READY MIXED CONCRETE SALES, LLC          | 1,382.26                   | IRWD Check               | Reconcile  |
| 427471   | 19-May-22              | NOV PROCESS & FLOW TECHNOLOGIES US, INC.          | 10,127.72                  | IRWD Check               | Reconcile  |
| 427472   | 19-May-22              | NV5, INC.   | 1,226.25                   | IRWD Check               | Reconcile  |
| 427473   | 19-May-22              | OFFICE SOLUTIONS BUSINESS PRODUCTS & SERVICES LLC | 1,421.01                   | IRWD Check               | Reconcile  |
| 427474   | 19-May-22              | OLIN CORPORATION                                  | 13,348.65                  | IRWD Check               | Reconcileo |
| 427475   | 19-May-22              | ONESOURCE DISTRIBUTORS LLC                        | 2,084.84                   | IRWD Check               | Reconcile  |
| 427476   | 19-May-22              | ORANGE COUNTY AUTO PARTS CO                       | 1,028.77                   | IRWD Check               | Reconcile  |
| 427477   | 19-May-22              | ORANGE COUNTY TREASURER                           | 250                        | IRWD Check               | Reconcileo |
| 427478   | 19-May-22              | ORANGE LINE OIL COMPANY                           | 1,480.92                   | IRWD Check               | Reconcileo |
| 427479   | 19-May-22              | ORIGIN CONSULTING LLC                             | 21,435.00                  | IRWD Check               | Reconcileo |
| 427480   | 19-May-22              | PACIFIC RIDGE MAINTENANCE ASSOCIATION             | 1,500.00                   | IRWD Check               | Negotiable |
| 427481   | 19-May-22              | PACIFIC STAR CHEMICAL, LLC                        | 2,552.93                   | IRWD Check               | Reconcileo |
| 427482   | 19-May-22              | PARKHOUSE TIRE INC                                | 4,884.94                   | IRWD Check               | Reconcileo |
| 427483   | 19-May-22              | PAYNE & FEARS LLP                                 | 7,620.00                   | IRWD Check               | Reconcileo |
| 427484   | 19-May-22              | PINNACLE TOWERS LLC                               | 842.76                     | IRWD Check               | Reconcileo |
| 427485   | 19-May-22              | POLYDYNE INC                                      | 61,941.17                  | IRWD Check               | Reconcileo |
| 427486   | 19-May-22              | PROJECT PARTNERS LLC                              | 11,525.00                  | IRWD Check               | Reconcileo |
| 427487   | 19-May-22              | PRONTO GYM SERVICES, INC.                         | 345                        | IRWD Check               | Reconcileo |
| 427488   | 19-May-22              | PSOMAS  | 9,142.50                   | IRWD Check               | Reconcileo |
| 427489   | 19-May-22              | PURE PROCESS FILTRATION INC                       | 4,602.78                   | IRWD Check               | Reconcile  |
| 427490   | 19-May-22              | QUINN COMPANY                                     | 143.4                      | IRWD Check               | Reconcile  |
| 427491   | 19-May-22              | RAM AIR ENGINEERING INC                           | 5,638.30                   | IRWD Check               | Reconcile  |
| 427492   | 19-May-22              | RELIANCE STANDARD LIFE INSURANCE COMPANY          | 35,930.82                  | IRWD Check               | Reconcile  |
| 427493   | 19-May-22              | RICHMOND AMERICAN HOMES OF MARYLAND, INC          | 132.12                     | IRWD Check               | Reconcile  |
| 427494   | 19-May-22              | RJM DESIGN GROUP INC                              | 4,209.00                   | IRWD Check               | Reconcile  |
| 427495   | 19-May-22              | ROSSI AUTOMOTIVE EQUIPMENT INC                    | 280                        | IRWD Check               | Reconcile  |
| 427496   | 19-May-22              | SANTA MARGARITA FORD                              | 208.57                     | IRWD Check               | Reconcile  |
| 427490   | 19-May-22              |   | 208.37 200.17              |                          | Reconcile  |
|          |                        | SHEHATA, MOHIB                                    |                            | IRWD Check               |            |
| 427498   | 19-May-22              | SIGMA-ALDRICH INC                                 | 118.85                     | IRWD Check               | Reconcile  |
| 427499   | 19-May-22              | SIGNPOST HOMES INC                                | 86.08                      | IRWD Check               | Negotiabl  |
| 427500   | 19-May-22              | SOUTH COAST BOBCAT                                | 253.16                     | IRWD Check               | Reconcile  |
| 427501   | 19-May-22              | SOUTHERN CALIFORNIA EDISON COMPANY                | 697,060.68                 | IRWD Check               | Reconcile  |
| 427502   | 19-May-22              | SOUTHERN CALIFORNIA GAS COMPANY                   | 16,126.72                  | IRWD Check               | Reconcile  |
| 427503   | 19-May-22              | STRADLING YOCCA CARLSON & RAUTH                   | 168                        | IRWD Check               | Reconcile  |
| 427504   | 19-May-22              | TAIT ENVIRONMENTAL SERVICES, INC.                 | 3,700.00                   | IRWD Check               | Reconcileo |
| 427505   | 19-May-22              | TAYLOR MORRISON OF CALIFORNIA, LLC                | 17.1                       | IRWD Check               | Negotiabl  |
| 427506   | 19-May-22              | TETRA TECH, INC                                   | 87,738.66                  | IRWD Check               | Reconcile  |
| 427507   | 19-May-22              | THOMPSON & PHIPPS INC                             | 4,120.01                   | IRWD Check               | Reconcile  |
| 427508   | 19-May-22              | TOM'S TRUCK CENTER NORTH COUNTY, LLC              | 1,104.35                   | IRWD Check               | Reconcileo |
| 427509   | 19-May-22              | TOTAL RESOURCE MANAGEMENT, INC                    | 4,250.00                   | IRWD Check               | Reconcileo |
| 427510   | 19-May-22              | TRAFFIC MANAGEMENT, INC                           | 3,442.00                   | IRWD Check               | Reconcileo |
| 427510   | 10 110 12              |   | -,                         |                          |            |

| CHECK OR         |                        |  |                      | PAYMENT                  |                          |
|------------------|------------------------|--|----------------------|--------------------------|--------------------------|
| ELECTRONIC #     | PAYMENT DATE           | SUPPLIERS  | PAYMENT AMOUNT       | METHOD                   | STATUS                   |
| 427512           | 19-May-22              | UNITED HEALTHCARE INSURANCE COMPANY                      | 324.22               | IRWD Check               | Reconciled               |
| 427513           | 19-May-22              | UNITED PARCEL SERVICE INC                                | 57.16                | IRWD Check               | Reconciled               |
| 427514           | 19-May-22              | UNITED SITE SERVICES OF CALIFORNIA INC                   | 273.82               | IRWD Check               | Reconciled               |
| 427515           | 19-May-22              | VAUGHAN'S INDUSTRIAL REPAIR CO INC                       | 49,862.00            | IRWD Check               | Reconciled               |
| 427516           | 19-May-22              | WASTE MANAGEMENT COLLECTIONS AND RECYCLING, INC.         | 440.06               | IRWD Check               | Reconciled               |
| 427517           | 19-May-22              | WATER RESEARCH FOUNDATION                                | 62,924.00            | IRWD Check               | Reconciled               |
| 427518           | 19-May-22              | WATERSMART SOFTWARE INC<br>WAXIE'S ENTERPRISES, INC      | 15,174.99            | IRWD Check               | Negotiable<br>Reconciled |
| 427519<br>427520 | 19-May-22<br>19-May-22 | WECK LABORATORIES INC                                    | 2,046.06<br>240      | IRWD Check<br>IRWD Check | Reconciled               |
| 427521           | 19-May-22              | WEST COAST SAND & GRAVEL INC.                            | 473.32               | IRWD Check               | Reconciled               |
| 427522           | 19-May-22              | WEST YOST & ASSOCIATES, INC.                             | 836                  | IRWD Check               | Reconciled               |
| 427523           | 19-May-22              | YSI, INC   | 9,212.63             | IRWD Check               | Reconciled               |
| 427524           | 19-May-22              | ZEPPELIN FLOODS LLC                                      | 11,480.00            | IRWD Check               | Reconciled               |
| 427525           | 19-May-22              | AT&T   | 437.46               | IRWD Check               | Reconciled               |
| 427526           | 19-May-22              | AT&T   | 5,718.34             | IRWD Check               | Reconciled               |
| 427527           | 19-May-22              | PERS LONG TERM CARE                                      | 612.63               | IRWD Check               | Reconciled               |
| 427528           | 19-May-22              | INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS LOCAL 47 | 3,455.65             | IRWD Check               | Reconciled               |
| 427529           | 19-May-22              | FRANCHISE TAX BOARD                                      | 1,654.15             | IRWD Check               | Negotiable               |
| 427530           | 19-May-22              | CALIFORNIA DEPT OF JUSTICE                               | 25                   | IRWD Check               | Negotiable               |
| 427531           | 19-May-22              | CALIFORNIA DEPT OF JUSTICE                               | 250                  | IRWD Check               | Negotiable               |
| 427532           | 19-May-22              | CALIFORNIA DEPT OF JUSTICE                               | 25                   | IRWD Check               | Negotiable               |
| 427533           | 20-May-22              | ACTION WHOLESALE PRODUCTS, INC.                          | 775.48               | IRWD Check               | Reconciled               |
| 427535           | 24-May-22              | PETRUSSE-NORRIS PAINTING, INC.                           | 10,370.36            | IRWD Check               | Reconciled               |
| 427536           | 25-May-22              |  | 4,704.68             | IRWD Check               | Reconciled               |
| 427537           | 26-May-22              | A&A WIPING CLOTH CO                                      | 1,939.50             | IRWD Check               | Reconciled               |
| 427538           | 26-May-22              | A&Y ASPHALT CONTRACTORS, INC.                            | 2,500.00             | IRWD Check               | Reconciled               |
| 427539<br>427540 | 26-May-22              | ABM INDUSTRY GROUPS, LLC<br>ABSOLUTE STANDARDS, INC.     | 24,516.09<br>165     | IRWD Check<br>IRWD Check | Reconciled<br>Negotiable |
| 427540           | 26-May-22<br>26-May-22 | ACCUSTANDARD INC   | 189.91               | IRWD Check               | Negotiable               |
| 427541           | 26-May-22              | ACE INDUSTRIES, INC.                                     | 1,856.05             | IRWD Check               | Reconciled               |
| 427543           | 26-May-22              | AECOM TECHNICAL SERVICES, INC.                           | 56,505.00            | IRWD Check               | Reconciled               |
| 427544           | 26-May-22              | AGILENT TECHNOLOGIES, INC.                               | 379.4                | IRWD Check               | Reconciled               |
| 427545           | 26-May-22              | AIRGAS, INC.   | 1,466.31             | IRWD Check               | Reconciled               |
| 427546           | 26-May-22              | ALEXANDER'S CONTRACT SERVICES, INC.                      | 112,423.10           | IRWD Check               | Reconciled               |
| 427547           | 26-May-22              | ALSTON & BIRD LLP  | 95,194.00            | IRWD Check               | Reconciled               |
| 427548           | 26-May-22              | AMAZON CAPITAL SERVICES, INC.                            | 5,650.27             | IRWD Check               | Reconciled               |
| 427549           | 26-May-22              | AMERICAN BACKFLOW SPECIALTIES, INC.                      | 2,892.88             | IRWD Check               | Negotiable               |
| 427550           | 26-May-22              | AMERICAN GEOTECHNICAL, INC.                              | 8,122.50             | IRWD Check               | Reconciled               |
| 427551           | 26-May-22              | ANDRITZ SEPARATION, INC.                                 | 2,356.60             | IRWD Check               | Negotiable               |
| 427552           | 26-May-22              | ANTHEM BLUE CROSS  | 306.93               | IRWD Check               | Reconciled               |
| 427553           | 26-May-22              | AQUA BEN CORPORATION                                     | 53,145.40            | IRWD Check               | Negotiable               |
| 427554           | 26-May-22              | AQUA-METRIC SALES COMPANY                                | 1,423.86             | IRWD Check               | Negotiable               |
| 427555           | 26-May-22              | AT&T   | 7,239.36             | IRWD Check               | Negotiable               |
| 427556           | 26-May-22              | AUTOMATIONDIRECT.COM INC.                                | 568.92               | IRWD Check               | Negotiable               |
| 427557           | 26-May-22              | AUTOZONE PARTS, INC.                                     | 529.77               | IRWD Check               | Reconciled               |
| 427558           | 26-May-22              | AVISTA TECHNOLOGIES, INC                                 | 10,788.44            | IRWD Check               | Reconciled               |
| 427559           | 26-May-22              | AZTEC CONTAINER  | 5,689.20             | IRWD Check               | Reconciled               |
| 427560<br>427561 | 26-May-22<br>26-May-22 | BANUELOS, MARTHA<br>BEHDADNIA, GOHAR                     | 52.9<br>30.47        | IRWD Check<br>IRWD Check | Negotiable<br>Negotiable |
| 427561           | 26-May-22              | BHATIA, JASMEET  | 55.06                | IRWD Check               | Negotiable               |
| 427563           | 26-May-22              | BIGWIG MONSTER, LLC                                      | 10,800.00            | IRWD Check               | Negotiable               |
| 427564           | 26-May-22              | BIOTAGE LLC  | 252.8                | IRWD Check               | Reconciled               |
| 427565           | 26-May-22              | BLANK, MITCHELL  | 30.84                | IRWD Check               | Reconciled               |
| 427566           | 26-May-22              | BRAY SALES, INC.   | 2,433.33             | IRWD Check               | Reconciled               |
| 427567           | 26-May-22              | BRUCE HADLEY NEWELL                                      | 1,250.00             | IRWD Check               | Reconciled               |
| 427568           | 26-May-22              | BURLINGTON SAFETY LABORATORY OF CALIFORNIA INC           | 17,119.29            | IRWD Check               | Negotiable               |
| 427569           | 26-May-22              | C WELLS PIPELINE MATERIALS INC                           | 3,750.79             | IRWD Check               | Negotiable               |
| 427570           | 26-May-22              | CALIFORNIA BARRICADE RENTAL, INC.                        | 8,944.25             | IRWD Check               | Reconciled               |
| 427571           | 26-May-22              | CALIFORNIA MUNICIPAL UTILITIES ASSOCIATION               | 14,505.00            | IRWD Check               | Negotiable               |
| 427572           | 26-May-22              | CAROLLO ENGINEERS, INC                                   | 3,097.25             | IRWD Check               | Negotiable               |
| 427573           | 26-May-22              | CASA EDUCATION FOUNDATION                                | 2,000.00             | IRWD Check               | Negotiable               |
| 427574           | 26-May-22              | CDW GOVERNMENT LLC                                       | 944.06               | IRWD Check               | Negotiable               |
| 427575           | 26-May-22              | CENTROID SYSTEMS, INC.                                   | 50,109.50            | IRWD Check               | Reconciled               |
| 427576           | 26-May-22              | CHAN, MATTHEW  | 45.35                | IRWD Check               | Negotiable               |
| 427577           | 26-May-22              | CHARLES P CROWLEY COMPANY INC                            | 285.67               | IRWD Check               | Reconciled               |
| 427578           | 26-May-22              | CHEM TECH INTERNATIONAL INC                              | 7,242.48             | IRWD Check               | Reconciled               |
| 107777           | 20                     |  |                      |                          |                          |
| 427579<br>427580 | 26-May-22<br>26-May-22 | CITY OF IRVINE<br>CITY OF NEWPORT BEACH D - 10           | 3,860.40<br>2,174.27 | IRWD Check<br>IRWD Check | Reconciled<br>Reconciled |

| ELECTRONIC #         PAYMENT DATE         SUPPLIERS         PAYMENT AMOUNT         METHOD           427581         26-May-22         CULFORD MORIYAMA         40.000         IRWD Check           427582         26-May-22         CONNEXUS INDUSTRIES INC.         31,444.99         IRWD Check           427583         26-May-22         CONSERV CONSTRUCTION INC.         8,027.50         IRWD Check           427584         26-May-22         CONSERV CONSTRUCTION INC.         50.11         IRWD Check           427585         26-May-22         CONCOMBS SERVICE GROUP         72,00.00         IRWD Check           427586         26-May-22         COX COMMUNICATIONS, INC.         3,463.57         IRWD Check           427587         26-May-22         DS UJULERTON AUXILIARY SERVICES CORPORATION         1,468.29         IRWD Check           427589         26-May-22         DATA CLEAR CORPORATION         5,646.41         IRWD Check           427592         26-May-22         DE SILVA, MAUREEN         31.111         IRWD Check           427593         26-May-22         DE MARIA ELECTRIC MOTOR SERVICES, INC.         11,867.45         IRWD Check           427593         26-May-22         DE MANA ELECTRIC MOTOR SERVICES, INC.         11,807.45         IRWD Check           427593 <th>Negotiable</th> | Negotiable |
|---|------------|
| 427582       26-May-22       CONNERVUS INDUSTRIES INC.       31,444.99       RWD Check         427583       26-May-22       CONSERV CONSTRUCTION INC.       8,027.50       IRWD Check         427584       26-May-22       CONSERV CONSTRUCTION INC.       5,01.91       IRWD Check         427585       26-May-22       CONDES SERVICE GROUP       7,000.00       IRWD Check         427586       26-May-22       COX OMMUNICATIONS, INC.       3,645.57       IRWD Check         427587       26-May-22       CSU FULLERTON ALXILLARY SERVICES CORPORATION       1,408.29       IRWD Check         427589       26-May-22       DATA CLEAN CORPORATION       5,646.44       IRWD Check         427590       26-May-22       DATA CLEAN CORPORATION       31.111       IRWD Check         427591       26-May-22       DEMARIN ELECTRIC MOTOR SERVICES, INC.       11,867.45       IRWD Check         427592       26-May-22       DEMARIN ELECTRIC MOTOR SERVICES INC       3,830.00       IRWD Check         427593       26-May-22       DIRACE TRAFFIC CONTROL SERVICES INC       3,830.00       IRWD Check         427594       26-May-22       DIRACE TRAFFIC CONTROL SERVICES INC       3,830.00       IRWD Check         427595       26-May-22       DIRACE TRAFFIC CONTROL SERVICES INC <th>Negotiable</th>                          | Negotiable |
| 427583       26-May-22       CONSERV CONSTRUCTION INC.       8,027.50       IRWD Check         427584       26-May-22       CONSTELLATION NEWENERGY, INC.       501.91       IRWD Check         427585       26-May-22       CONSTELLATION NEWENERGY, INC.       3,663.57       IRWD Check         427585       26-May-22       COX COMMUNICATIONS, INC.       3,663.57       IRWD Check         427587       26-May-22       D & H WATER SYSTEMS INC.       5,646.84       IRWD Check         427589       26-May-22       D & H WATER SYSTEMS INC.       5,646.84       IRWD Check         427590       26-May-22       D ATA CLEAN CORPORATION       559       IRWD Check         427591       26-May-22       D SILVA, MAUREEN       314.11       IRWD Check         427592       26-May-22       DEMARIA ELECTRIC MOTOR SERVICES, INC.       11,867.45       IRWD Check         427593       26-May-22       DEMARIA ELECTRIC MOTOR SERVICES, INC.       146.99       IRWD Check         427595       26-May-22       DEMARIA ELECTRIC CONTROL SERVICES INC       3,80.00       IRWD Check         427595       26-May-22       ENGENTRAL SERVICES INC       3,80.00       IRWD Check         427595       26-May-22       ELECTRIC CONTROL SERVICES INC       3,80.18       I   | •          |
| 427584       26-May-22       CONSTELLATION NEWENERGY, INC.       501.91       IRWD Check         427585       26-May-22       CONCOMB SERVICE GROUP       72,000.00       IRWD Check         427587       26-May-22       CONCOMUNICATIONS, INC.       3,63.57       IRWD Check         427588       26-May-22       D& H WATER SYSTEMS INC.       5,646.84       IRWD Check         427589       26-May-22       DA H CLEAN CORPORATION       5,946.84       IRWD Check         427590       26-May-22       DAVIS, JEROME       66.6       IRWD Check         427591       26-May-22       DE SLIVA, MAUREEN       311.11       IRWD Check         427592       26-May-22       DEMONBREUN, KEITH       235.68       IRWD Check         427593       26-May-22       DEMONBREUN, KEITH       235.68       IRWD Check         427594       26-May-22       DRAKE TRAFFIC CONTROL SERVICES INC       3,830.00       IRWD Check         427595       26-May-22       DRIVELINES INC       3,830.00       IRWD Check         427597       26-May-22       EUSTENN, ANNA       301.82       IRWD Check         427597       26-May-22       EUSTENN, ANNA       301.82       IRWD Check         427597       26-May-22       EUSTENN, ANNA   | Negotiable |
| 427585         26-May-22         COOMBS SERVICE GROUP         7,000.00         IRWD Check           427586         26-May-22         COX COMUNICATIONS, INC.         3,463.57         IRWD Check           427587         26-May-22         CS UPULLERTON AUXILARY SERVICES CORPORATION         11,408.29         IRWD Check           427588         26-May-22         D& H WATER SYSTEMS INC.         5,646.84         IRWD Check           427590         26-May-22         DAVIS, JEROME         66.6         IRWD Check           427591         26-May-22         DAVIS, JEROME         66.6         IRWD Check           427592         26-May-22         DES ILVA, MAUREEN         314.11         IRWD Check           427593         26-May-22         DEMONBREUN, KEITH         235.68         IRWD Check           427594         26-May-22         DEMONBREUN, KEITH         235.68         IRWD Check           427595         26-May-22         DRIVELINES INC         160         IRWD Check           427595         26-May-22         DRIVELINES INC         361.82         IRWD Check           427596         26-May-22         EXCURTINE SERVICES INC         361.82         IRWD Check           427597         26-May-22         EXRUCES INC         361.81         I   | Negotiable |
| 427586         26-May-22         COX COMMUNICATIONS, INC.         3,463.57         IRWD Check           427587         26-May-22         DS HULLERTON AUXILLARY SERVICES CORPORATION         11,408.29         IRWD Check           427589         26-May-22         DATA CLEAN CORPORATION         559         IRWD Check           427590         26-May-22         DATA CLEAN CORPORATION         559         IRWD Check           427592         26-May-22         DENIVA, MAUREEN         314.11         IRWD Check           427593         26-May-22         DEMARIA ELECTRIC MOTOR SERVICES, INC.         11,867.45         IRWD Check           427593         26-May-22         DEMORREUN, KEITH         235.68         IRWD Check           427594         26-May-22         DIRECTV INC         3830.00         IRWD Check           427595         26-May-22         DIRECTV INC         3830.00         IRWD Check           427596         26-May-22         DRAKE TRAFFIC CONTROL SERVICES INC         3830.00         IRWD Check           427597         26-May-22         DRIVELINES INC         160         IRWD Check           427598         26-May-22         ENVIRONMENTAL SECONCE ASSOCIATES         1681.88         IRWD Check           427600         26-May-22         EULIS, K                                   |            |
| 427587       26-May-22       CSU FULLERTON AUXILIARY SERVICES CORPORATION       11,408.29       IRWD Check         427588       26-May-22       D & H WATER SYSTEMS INC.       5,646.84       IRWD Check         427590       26-May-22       D AL CLEAN CORPORATION       559       IRWD Check         427591       26-May-22       DAVIS, JEROME       66.6       IRWD Check         427592       26-May-22       DE SILVA, MAUREEN       314.11       IRWD Check         427593       26-May-22       DEMONBRUN, KEITH       235.68       IRWD Check         427594       26-May-22       DIRECTV INC       18.800       IRWD Check         427595       26-May-22       DRIKE TRAFFIC CONTROL SERVICES INC       3.830.00       IRWD Check         427596       26-May-22       DRIVELINES INC       16.0       IRWD Check         427597       26-May-22       EXIZIAN, ANNA       301.82       IRWD Check         427599       26-May-22       ELUS KENT       51.1       IRWD Check         427500       26-May-22       ELUS KENT       51.1       IRWD Check         427600       26-May-22       ELUS KENT       51.1       IRWD Check         427601       26-May-22       ELUS KENT       51.1       IRWD   |            |
| 427588       26-May-22       D & H WATER SYSTEMS INC.       5,646.84       IRWD Check         427589       26-May-22       DATA CLEAN CORPORATION       559       IRWD Check         427591       26-May-22       DATA CLEAN CORPORATION       66.6       IRWD Check         427591       26-May-22       DE SILVA, MAUREEN       314.11       IRWD Check         427592       26-May-22       DEMONBREUN, KEITH       235.68       IRWD Check         427593       26-May-22       DIRECTV INC       146.99       IRWD Check         427594       26-May-22       DIRECTV INC       3,830.00       IRWD Check         427595       26-May-22       DRAKE TRAFFIC CONTROL SERVICES INC       3,830.00       IRWD Check         427597       26-May-22       DRIVELINES INC       160       IRWD Check         427597       26-May-22       ECI SERVICES LLC       3,830.00       IRWD Check         427599       26-May-22       ELILE EQUIPMENT, INC.       249.17       IRWD Check         427600       26-May-22       ELILIS, KENT       5.1       IRWD Check         427601       26-May-22       ELILIS, KENT       5.1       IRWD Check         427602       26-May-22       ELILIS KENT       5.1       IRWD  |            |
| 427589         26-May-22         DATA CLEAN CORPORATION         559         IRWD Check           427590         26-May-22         DEXINS, JEROME         66.6         IRWD Check           427591         26-May-22         DEXINA, MAUREEN         31.11         IRWD Check           427592         26-May-22         DEMARIA ELECTRIC MOTOR SERVICES, INC.         11,867.45         IRWD Check           427593         26-May-22         DEMONBREUN, KEITH         235.68         IRWD Check           427595         26-May-22         DRAKE TRAFFIC CONTROL SERVICES INC         3,830.00         IRWD Check           427595         26-May-22         DRIVELINES INC         160         IRWD Check           427596         26-May-22         EKIZIAN, ANNA         301.82         IRWD Check           427597         26-May-22         ELIC         5935.56         IRWD Check           427590         26-May-22         ELIC         5935.51         IRWD Check           427591         26-May-22         ELIC         5935.56         IRWD Check           427601         26-May-22         ELIC         5535.51         IRWD Check           427602         26-May-22         ENVIRONMENTAL RESOURCE ASSOCIATES         1,681.88         IRWD Check <tr< td=""><td></td></tr<>   |            |
| 427590       26-May-22       DAVIS, JEROME       66.6       IRWD Check         427591       26-May-22       DE SILVA, MAUREEN       314.11       IRWD Check         427592       26-May-22       DE MARIA ELECTRIC MOTOR SERVICES, INC.       11,867.45       IRWD Check         427593       26-May-22       DEMONBREUN, KEITH       235.68       IRWD Check         427594       26-May-22       DRACTV INC       146.99       IRWD Check         427595       26-May-22       DRIVELINES INC       3,830.00       IRWD Check         427597       26-May-22       EKIZAN, ANNA       301.82       IRWD Check         427598       26-May-22       EKIZAN, ANNA       301.82       IRWD Check         427599       26-May-22       EKIZE ANNA       301.82       IRWD Check         427600       26-May-22       ELUTE EQUIPMENT, INC.       249.17       IRWD Check         427600       26-May-22       ENVIRONMENTAL RESOURCE ASSOCIATES       1,681.88       IRWD Check         427601       26-May-22       ELUTE FOUIPMENT AL SCIENCE ASSOCIATES       1,243.41       IRWD Check         427604       26-May-22       EVURONMENTAL SCIENCE ASSOCIATES       1,244.94       IRWD Check         427605       26-May-22       FERE   | •          |
| 427591       26-May-22       DE SILVA, MAUREEN       314.11       IRWD Check         427592       26-May-22       DEMARIA ELECTRIC MOTOR SERVICES, INC.       11,867.45       IRWD Check         427593       26-May-22       DEMONBREUN, KEITH       235.68       IRWD Check         427594       26-May-22       DIRECTV INC       146.99       IRWD Check         427595       26-May-22       DRAKE TRAFFIC CONTROL SERVICES INC       3,830.00       IRWD Check         427595       26-May-22       DRIVELINES INC       160       IRWD Check         427598       26-May-22       ECK SERVICES LLC       5,935.96       IRWD Check         427599       26-May-22       ELIC EQUIPMENT, INC.       249.17       IRWD Check         427600       26-May-22       ELVIRONMENTAL RESOURCE ASSOCIATES       1681.88       IRWD Check         427601       26-May-22       ENVIRONMENTAL SCIENCE ASSOCIATES       1681.88       IRWD Check         427602       26-May-22       ENVIRONMENTAL SCIENCE ASSOCIATES       1681.88       IRWD Check         427603       26-May-22       ENVIRONMENTAL SCIENCE ASSOCIATES       1681.88       IRWD Check         427604       26-May-22       ENVIRONMENTAL SCIENCE ASSOCIATES       1681.88       IRWD Check   |            |
| 427592         26-May-22         DEMARIA ELECTRIC MOTOR SERVICES, INC.         11,867.45         IRWD Check           427593         26-May-22         DEMONBREUN, KEITH         235.68         IRWD Check           427594         26-May-22         DIRECTV INC         146.99         IRWD Check           427595         26-May-22         DRAKE TRAFFIC CONTROL SERVICES INC         3,830.00         IRWD Check           427595         26-May-22         DRIVELINES INC         160         IRWD Check           427597         26-May-22         EKIZAN, ANNA         301.82         IRWD Check           427598         26-May-22         EKIZAN, ANNA         301.82         IRWD Check           427600         26-May-22         EKIZAN, ANNA         301.82         IRWD Check           427600         26-May-22         EKIZAN, ANNA         55.1         IRWD Check           427600         26-May-22         ENVIRONMENTAL RESOURCE ASSOCIATES         15,438.41         IRWD Check           427602         26-May-22         ENVIRONMENTAL SCIENCE ASSOCIATES         15,438.41         IRWD Check           427604         26-May-22         ENVIRONMENTAL SCIENCE ASSOCIATES         15,438.41         IRWD Check           427605         26-May-22         ENCOTIVE LIGHTING & ELECT                                   | •          |
| 427593       26-May-22       DEMONBREUN, KEITH       235.68       IRWD Check         427594       26-May-22       DIRECTV INC       146.99       IRWD Check         427595       26-May-22       DRAKE TRAFFIC CONTROL SERVICES INC       3,830.00       IRWD Check         427595       26-May-22       DRAKE TRAFFIC CONTROL SERVICES INC       3,830.00       IRWD Check         427597       26-May-22       ECO SERVICES LLC       5,935.96       IRWD Check         427598       26-May-22       ELIIS, KENT       301.82       IRWD Check         427500       26-May-22       ELIIS, KENT       5.1       IRWD Check         427601       26-May-22       ENVIRONMENTAL RESOURCE ASSOCIATES       1,681.88       IRWD Check         427602       26-May-22       ENVIRONMENTAL SCIENCE ASSOCIATES       1,681.88       IRWD Check         427603       26-May-22       ENVORISONMENTAL SCIENCE ASSOCIATES       2,882.25       IRWD Check         427604       26-May-22       ENVORISONMENTAL SCIENCE ASSOCIATES       2,882.25       IRWD Check         427605       26-May-22       FERGUSIN ENTERPRISES, ILC       11,204.90       IRWD Check         427606       26-May-22       FERGUSIN ENTERPRISES, INC.       7,368.75       IRWD Check   | •          |
| 427594       26-May-22       DIRECTV INC       146.99       IRWD Check         427595       26-May-22       DRAKE TRAFFIC CONTROL SERVICES INC       3,830.00       IRWD Check         427596       26-May-22       DRIVELINES INC       160       IRWD Check         427597       26-May-22       ECO SERVICES LLC       5,935.96       IRWD Check         427598       26-May-22       EKIZIAN, ANNA       301.82       IRWD Check         427599       26-May-22       ELITE EQUIPMENT, INC.       249.17       IRWD Check         427601       26-May-22       ELITS KENT       55.1       IRWD Check         427602       26-May-22       ENVIRONMENTAL RESOURCE ASSOCIATES       1,681.88       IRWD Check         427603       26-May-22       EUROFINS ENVIRONMENT ESTING AMERICA HOLDINGS, INC.       2,882.25       IRWD Check         427604       26-May-22       EUROFINS ENVIRONMENT ESTING AMERICA HOLDINGS, INC.       2,882.25       IRWD Check         427605       26-May-22       EVECUTIVE LIGHTING & ELECTRIC       264.74       IRWD Check         427605       26-May-22       FERGUSON ENTERPRISES, LLC       272.77       IRWD Check         427606       26-May-22       FEDEX       7,368.75       IRWD Check         427607<   | •          |
| 427595         26-May-22         DRAKE TRAFFIC CONTROL SERVICES INC         3,830.00         IRWD Check           427596         26-May-22         DRIVELINES INC         160         IRWD Check           427597         26-May-22         EKUZIAN, ANNA         301.82         IRWD Check           427599         26-May-22         EKUZIAN, ANNA         301.82         IRWD Check           427599         26-May-22         EKUZIAN, ANNA         301.82         IRWD Check           427600         26-May-22         ELITS EQUIPMENT, INC.         249.17         IRWD Check           427601         26-May-22         ENVIRONMENTAL RESOURCE ASSOCIATES         1,681.88         IRWD Check           427602         26-May-22         EUNIRONMENTAL SCIENCE ASSOCIATES         15,438.41         IRWD Check           427603         26-May-22         EXCUTIVE LIGHTING & ELECTRIC         2,882.25         IRWD Check           427604         26-May-22         FERCUTIVE LIGHTING & ELECTRIC         2,882.25         IRWD Check           427605         26-May-22         FERCUTIVE LIGHTING & ELECTRIC         2,882.25         IRWD Check           427605         26-May-22         FERCUTIVE LIGHTING & SUCON ENTERPRISES, ILC         11,204.90         IRWD Check           427607         26-M                          | -          |
| 427596       26-May-22       DRIVELINES INC       160       IRWD Check         427597       26-May-22       ECO SERVICES LLC       5,935.96       IRWD Check         427598       26-May-22       EKIZIAN, ANNA       301.82       IRWD Check         427599       26-May-22       EKIZIAN, ANNA       301.82       IRWD Check         427590       26-May-22       ELITE EQUIPMENT, INC.       249.17       IRWD Check         427600       26-May-22       ENVIRONMENTAL RESOURCE ASSOCIATES       1,681.88       IRWD Check         427601       26-May-22       ENVIRONMENTAL SCIENCE ASSOCIATES       15,438.41       IRWD Check         427602       26-May-22       EUROFINS ENVIRONMENT TESTING AMERICA HOLDINGS, INC.       2,882.25       IRWD Check         427603       26-May-22       EVECUTIVE LIGHTING & LECTRIC       264.74       IRWD Check         427604       26-May-22       FERCUSON ENTERPRISES, LLC       272.77       IRWD Check         427605       26-May-22       FERGUSON ENTERPRISES, LLC       11,204.90       IRWD Check         427607       26-May-22       FICONA HUTTON & ASSOCIATES       7,368.75       IRWD Check         427609       26-May-22       FISUS ALLECTRIC       26.424       IRWD Check         42   |            |
| 427597         26-May-22         ECO SERVICES LLC         5,935.96         IRWD Check           427598         26-May-22         EKIZIAN, ANNA         301.82         IRWD Check           427599         26-May-22         ELITE EQUIPMENT, INC.         249.17         IRWD Check           427600         26-May-22         ELITS, KENT         55.1         IRWD Check           427601         26-May-22         ENVIRONMENTAL RESOURCE ASSOCIATES         1,681.88         IRWD Check           427602         26-May-22         ENVIRONMENTAL SCIENCE ASSOCIATES         1,5438.41         IRWD Check           427603         26-May-22         EUROFINS ENVIRONMENT TESTING AMERICA HOLDINGS, INC.         2,882.25         IRWD Check           427604         26-May-22         EXECUTIVE LIGHTING & ELECTRIC         264.74         IRWD Check           427606         26-May-22         FARRELL & ASSOCIATES         7,27.5         IRWD Check           427606         26-May-22         FEDEX         272.77         IRWD Check           427607         26-May-22         FEDEX         7,368.75         IRWD Check           427608         26-May-22         FEDEX         7,372.00         IRWD Check           427609         26-May-22         FISHER & PHILLIPS LIP         7  |            |
| 427598       26-May-22       EKIZIAN, ANNA       301.82       IRWD Check         427599       26-May-22       ELITE EQUIPMENT, INC.       249.17       IRWD Check         427600       26-May-22       ELILS, KENT       55.1       IRWD Check         427601       26-May-22       ELILS, KENT       55.1       IRWD Check         427602       26-May-22       ENVIRONMENTAL SCIENCE ASSOCIATES       16,81.88       IRWD Check         427603       26-May-22       EUROFINS ENVIRONMENT TESTING AMERICA HOLDINGS, INC.       2,882.25       IRWD Check         427604       26-May-22       EXECUTIVE LIGHTING & ELECTRIC       264.74       IRWD Check         427605       26-May-22       FEDEX       272.57       IRWD Check         427606       26-May-22       FEDEX       272.77       IRWD Check         427606       26-May-22       FEDEX       272.77       IRWD Check         427607       26-May-22       FERGUSON ENTERPRISES, LLC       11,204.90       IRWD Check         427608       26-May-22       FISHER SCIENTIFIC COMPANY LLC       3,611.64       IRWD Check         427610       26-May-22       FISHER SCIENTIFIC COMPANY LLC       3,611.64       IRWD Check         427611       26-May-22       FISHE   | 0          |
| 427600       26-May-22       ELLIS, KENT       55.1       IRWD Check         427601       26-May-22       ENVIRONMENTAL RESOURCE ASSOCIATES       1,681.88       IRWD Check         427602       26-May-22       ENVIRONMENTAL SCIENCE ASSOCIATES       15,438.41       IRWD Check         427603       26-May-22       ENVORONMENTAL SCIENCE ASSOCIATES       15,438.41       IRWD Check         427604       26-May-22       EXECUTIVE LIGHTING & ELECTRIC       2,882.25       IRWD Check         427605       26-May-22       EXECUTIVE LIGHTING & ELECTRIC       2,882.25       IRWD Check         427605       26-May-22       FARRELL & ASSOCIATES       27.25       IRWD Check         427606       26-May-22       FERE       272.57       IRWD Check         427607       26-May-22       FERE SCIATES       272.77       IRWD Check         427608       26-May-22       FISHER & ASSOCIATES, INC.       7,368.75       IRWD Check         427609       26-May-22       FISHER & PHILIPS LLP       7,372.00       IRWD Check         427610       26-May-22       FISHER SCIENTIFIC COMPANY LLC       3,611.64       IRWD Check         427612       26-May-22       FISHER SCIENTIA INC.       325.43       IRWD Check         427613   | Negotiable |
| 427601       26-May-22       ENVIRONMENTAL RESOURCE ASSOCIATES       1,681.88       IRWD Check         427602       26-May-22       ENVIRONMENTAL SCIENCE ASSOCIATES       15,438.41       IRWD Check         427603       26-May-22       EUROFINS ENVIRONMENT TESTING AMERICA HOLDINGS, INC.       2,882.25       IRWD Check         427604       26-May-22       EXECUTIVE LIGHTING & ELECTRIC       264.74       IRWD Check         427605       26-May-22       FARRELL & ASSOCIATES       27.25       IRWD Check         427606       26-May-22       FEDEX       272.77       IRWD Check         427608       26-May-22       FEGUSON ENTERPRISES, LLC       11,204.90       IRWD Check         427608       26-May-22       FIONA HUTTON & ASSOCIATES, INC.       7,368.75       IRWD Check         427609       26-May-22       FISHER & PHILLIPS LLP       7,372.00       IRWD Check         427610       26-May-22       FISHER SCIENTIFIC COMPANY LLC       3,611.64       IRWD Check         427611       26-May-22       FISHER ALIPORINA INC.       325.43       IRWD Check         427613       26-May-22       FIONTIER CALIFORNIA INC.       325.43       IRWD Check         427614       26-May-22       FIONTIER CALIFORNIA INC.       325.43       IRWD Check<   | Negotiable |
| 427602       26-May-22       ENVIRONMENTAL SCIENCE ASSOCIATES       15,438.41       IRWD Check         427603       26-May-22       EUROFINS ENVIRONMENT TESTING AMERICA HOLDINGS, INC.       2,882.25       IRWD Check         427604       26-May-22       EXECUTIVE LIGHTING & ELECTRIC       264.74       IRWD Check         427605       26-May-22       FARRELL & ASSOCIATES       27.25       IRWD Check         427606       26-May-22       FARRELL & ASSOCIATES       272.77       IRWD Check         427607       26-May-22       FERGUSON ENTERPRISES, LLC       11,204.90       IRWD Check         427608       26-May-22       FIONA HUTTON & ASSOCIATES, INC.       7,368.75       IRWD Check         427609       26-May-22       FISHER & PHILLIPS LLP       7,372.00       IRWD Check         427610       26-May-22       FISHER SCIENTIFIC COMPANY LLC       3,611.64       IRWD Check         427612       26-May-22       FILUID SOUND, INC.       1,000.00       IRWD Check         427613       26-May-22       FRONTIER CALIFORNIA INC.       325.43       IRWD Check         427614       26-May-22       FRONTIER CALIFORNIA INC.       325.43       IRWD Check         427613       26-May-22       GEI CONSULTANTS INC       1,908.00       IRWD Check   | Negotiable |
| 427603       26-May-22       EUROFINS ENVIRONMENT TESTING AMERICA HOLDINGS, INC.       2,882.25       IRWD Check         427604       26-May-22       EXECUTIVE LIGHTING & ELECTRIC       264.74       IRWD Check         427605       26-May-22       FARRELL & ASSOCIATES       27.25       IRWD Check         427606       26-May-22       FEDEX       272.77       IRWD Check         427607       26-May-22       FERGUSON ENTERPRISES, LLC       11,204.90       IRWD Check         427608       26-May-22       FISHER & PHILLIPS LLP       7,368.75       IRWD Check         427610       26-May-22       FISHER & SCIENTIFIC COMPANY LLC       3,611.64       IRWD Check         427611       26-May-22       FISHER SCIENTIFIC COMPANY LLC       3,611.64       IRWD Check         427612       26-May-22       FISHER SCIENTIFIC COMPANY LLC       3,611.64       IRWD Check         427613       26-May-22       FILO SOUND, INC.       1,000.00       IRWD Check         427613       26-May-22       FILO ENGINEERING, INC.       325.43       IRWD Check         427613       26-May-22       GEL ONSULTANTS INC       398.00       IRWD Check         427614       26-May-22       GEL ONSULTANTS INC       33.24       IRWD Check <t< td=""><td>Negotiable</td></t<>   | Negotiable |
| 427604       26-May-22       EXECUTIVE LIGHTING & ELECTRIC       264.74       IRWD Check         427605       26-May-22       FARRELL & ASSOCIATES       27.25       IRWD Check         427606       26-May-22       FEDEX       272.77       IRWD Check         427607       26-May-22       FERGUSON ENTERPRISES, LLC       11,204.90       IRWD Check         427608       26-May-22       FIONA HUTTON & ASSOCIATES, INC.       7,368.75       IRWD Check         427609       26-May-22       FISHER & PHILLIPS LLP       7,372.00       IRWD Check         427610       26-May-22       FISHER SCIENTIFIC COMPANY LLC       3,611.64       IRWD Check         427612       26-May-22       FLUID SOUND, INC.       1,000.00       IRWD Check         427612       26-May-22       FRONTIER CALIFORNIA INC.       325.43       IRWD Check         427613       26-May-22       FUSCOE ENGINEERING, INC.       435       IRWD Check         427614       26-May-22       GEL CONSULTANTS INC       1,988.00       IRWD Check         427615       26-May-22       GEL CONSULTANTS INC       1,988.00       IRWD Check         427615       26-May-22       GELB, TERRI       83.24       IRWD Check         427616       26-May-22  | Negotiable |
| 427605       26-May-22       FARRELL & ASSOCIATES       27.25       IRWD Check         427606       26-May-22       FEDEX       272.77       IRWD Check         427607       26-May-22       FERGUSON ENTERPRISES, LLC       11,204.90       IRWD Check         427608       26-May-22       FIONA HUTTON & ASSOCIATES, INC.       7,368.75       IRWD Check         427609       26-May-22       FISHER & PHILLIPS LLP       7,372.00       IRWD Check         427610       26-May-22       FISHER SCIENTIFIC COMPANY LLC       3,611.64       IRWD Check         427612       26-May-22       FLUID SOUND, INC.       1,000.00       IRWD Check         427612       26-May-22       FLUID SOUND, INC.       1,000.00       IRWD Check         427613       26-May-22       FLUID SOUND, INC.       325.43       IRWD Check         427613       26-May-22       FUSCOE ENGINEERING, INC.       325.43       IRWD Check         427614       26-May-22       GEI CONSULTANTS INC       1,908.00       IRWD Check         427615       26-May-22       GELB, TERRI       83.24       IRWD Check         427616       26-May-22       GOFORTH & MARTI       747.35       IRWD Check         427617       26-May-22       GRAINGER   | Negotiable |
| 427606       26-May-22       FEDEX       272.77       IRWD Check         427607       26-May-22       FERGUSON ENTERPRISES, LLC       11,204.90       IRWD Check         427608       26-May-22       FIONA HUTTON & ASSOCIATES, INC.       7,368.75       IRWD Check         427609       26-May-22       FISHER & PHILLIPS LLP       7,372.00       IRWD Check         427610       26-May-22       FISHER SCIENTIFIC COMPANY LLC       3,611.64       IRWD Check         427612       26-May-22       FLUID SOUND, INC.       1,000.00       IRWD Check         427612       26-May-22       FRONTIER CALIFORNIA INC.       325.43       IRWD Check         427613       26-May-22       FUSCOE ENGINEERING, INC.       325.43       IRWD Check         427614       26-May-22       GEI CONSULTANTS INC       1,908.00       IRWD Check         427615       26-May-22       GELB, TERRI       83.24       IRWD Check         427616       26-May-22       GOFORTH & MARTI       747.35       IRWD Check         427617       26-May-22       GRAINGER       1,486.91       IRWD Check         427618       26-May-22       GRAYBAR ELECTRIC COMPANY       1,017.25       IRWD Check         427619       26-May-22       GRATER IR   |            |
| 427607       26-May-22       FERGUSON ENTERPRISES, LLC       11,204.90       IRWD Check         427608       26-May-22       FIONA HUTTON & ASSOCIATES, INC.       7,368.75       IRWD Check         427609       26-May-22       FISHER & PHILLIPS LLP       7,372.00       IRWD Check         427610       26-May-22       FISHER SCIENTIFIC COMPANY LLC       3,611.64       IRWD Check         427611       26-May-22       FLUID SOUND, INC.       1,000.00       IRWD Check         427612       26-May-22       FRONTIER CALIFORNIA INC.       325.43       IRWD Check         427613       26-May-22       FUSCOE ENGINEERING, INC.       435       IRWD Check         427614       26-May-22       GEI CONSULTANTS INC       435       IRWD Check         427615       26-May-22       GELB, TERRI       83.24       IRWD Check         427616       26-May-22       GOFORTH & MARTI       747.35       IRWD Check         427617       26-May-22       GRAINGER       1,486.91       IRWD Check         427618       26-May-22       GRAYBAR ELECTRIC COMPANY       1,017.25       IRWD Check         427619       26-May-22       GRATER IRVINE CHAMBER OF COMMERCE       1,800.00       IRWD Check  |            |
| 427608       26-May-22       FIONA HUTTON & ASSOCIATES, INC.       7,368.75       IRWD Check         427609       26-May-22       FISHER & PHILLIPS LLP       7,372.00       IRWD Check         427610       26-May-22       FISHER SCIENTIFIC COMPANY LLC       3,611.64       IRWD Check         427611       26-May-22       FLUID SOUND, INC.       1,000.00       IRWD Check         427612       26-May-22       FRONTIER CALIFORNIA INC.       325.43       IRWD Check         427613       26-May-22       FRONTIER CALIFORNIA INC.       325.43       IRWD Check         427613       26-May-22       FUSCOE ENGINEERING, INC.       435       IRWD Check         427614       26-May-22       GEI CONSULTANTS INC       1,908.00       IRWD Check         427615       26-May-22       GELB, TERRI       83.24       IRWD Check         427616       26-May-22       GOFORTH & MARTI       747.35       IRWD Check         427617       26-May-22       GRAINGER       1,486.91       IRWD Check         427618       26-May-22       GRAYBAR ELECTRIC COMPANY       1,017.25       IRWD Check         427619       26-May-22       GRATER IRVINE CHAMBER OF COMMERCE       1,800.00       IRWD Check   |            |
| 427609       26-May-22       FISHER & PHILLIPS LLP       7,372.00       IRWD Check         427610       26-May-22       FISHER SCIENTIFIC COMPANY LLC       3,611.64       IRWD Check         427611       26-May-22       FLUID SOUND, INC.       1,000.00       IRWD Check         427612       26-May-22       FRONTIER CALIFORNIA INC.       325.43       IRWD Check         427613       26-May-22       FRONTIER CALIFORNIA INC.       325.43       IRWD Check         427613       26-May-22       FUSCOE ENGINEERING, INC.       435       IRWD Check         427614       26-May-22       GEI CONSULTANTS INC       1,908.00       IRWD Check         427615       26-May-22       GELB, TERRI       83.24       IRWD Check         427616       26-May-22       GOFORTH & MARTI       747.35       IRWD Check         427617       26-May-22       GRAINGER       1,486.91       IRWD Check         427618       26-May-22       GRAYBAR ELECTRIC COMPANY       1,017.25       IRWD Check         427619       26-May-22       GREATER IRVINE CHAMBER OF COMMERCE       1,800.00       IRWD Check   |            |
| 427610       26-May-22       FISHER SCIENTIFIC COMPANY LLC       3,611.64       IRWD Check         427611       26-May-22       FLUID SOUND, INC.       1,000.00       IRWD Check         427612       26-May-22       FRONTIER CALIFORNIA INC.       325.43       IRWD Check         427613       26-May-22       FRONTIER CALIFORNIA INC.       325.43       IRWD Check         427613       26-May-22       FUSCOE ENGINEERING, INC.       435       IRWD Check         427614       26-May-22       GEI CONSULTANTS INC       1,908.00       IRWD Check         427615       26-May-22       GELB, TERRI       83.24       IRWD Check         427616       26-May-22       GOFORTH & MARTI       747.35       IRWD Check         427617       26-May-22       GRAINGER       1,486.91       IRWD Check         427618       26-May-22       GRAYBAR ELECTRIC COMPANY       1,017.25       IRWD Check         427619       26-May-22       GREATER IRVINE CHAMBER OF COMMERCE       1,800.00       IRWD Check  |            |
| 427611       26-May-22       FLUID SOUND, INC.       1,000.00       IRWD Check         427612       26-May-22       FRONTIER CALIFORNIA INC.       325.43       IRWD Check         427613       26-May-22       FUSCOE ENGINEERING, INC.       325.43       IRWD Check         427614       26-May-22       GEI CONSULTANTS INC       435       IRWD Check         427615       26-May-22       GELB, TERRI       1,908.00       IRWD Check         427616       26-May-22       GOFORTH & MARTI       83.24       IRWD Check         427617       26-May-22       GOFORTH & MARTI       747.35       IRWD Check         427618       26-May-22       GRAINGER       1,486.91       IRWD Check         427619       26-May-22       GREATER IRVINE CHAMBER OF COMMERCE       1,017.25       IRWD Check  |            |
| 427612       26-May-22       FRONTIER CALIFORNIA INC.       325.43       IRWD Check         427613       26-May-22       FUSCOE ENGINEERING, INC.       435       IRWD Check         427614       26-May-22       GEI CONSULTANTS INC       1,908.00       IRWD Check         427615       26-May-22       GELB, TERRI       83.24       IRWD Check         427616       26-May-22       GOFORTH & MARTI       747.35       IRWD Check         427617       26-May-22       GRAINGER       1,486.91       IRWD Check         427618       26-May-22       GRAYBAR ELECTRIC COMPANY       1,017.25       IRWD Check         427619       26-May-22       GREATER IRVINE CHAMBER OF COMMERCE       1,800.00       IRWD Check  |            |
| 42761326-May-22FUSCOE ENGINEERING, INC.435IRWD Check42761426-May-22GEI CONSULTANTS INC1,908.00IRWD Check42761526-May-22GELB, TERRI83.24IRWD Check42761626-May-22GOFORTH & MARTI747.35IRWD Check42761726-May-22GRAINGER1,486.91IRWD Check42761826-May-22GRAYBAR ELECTRIC COMPANY1,017.25IRWD Check42761926-May-22GRATER IRVINE CHAMBER OF COMMERCE1,800.00IRWD Check   | 0          |
| 427614         26-May-22         GEI CONSULTANTS INC         1,908.00         IRWD Check           427615         26-May-22         GELB, TERRI         83.24         IRWD Check           427616         26-May-22         GOFORTH & MARTI         747.35         IRWD Check           427617         26-May-22         GRAINGER         1,486.91         IRWD Check           427618         26-May-22         GRAYBAR ELECTRIC COMPANY         1,017.25         IRWD Check           427619         26-May-22         GREATER IRVINE CHAMBER OF COMMERCE         1,800.00         IRWD Check   | -          |
| 427615       26-May-22       GELB, TERRI       83.24       IRWD Check         427616       26-May-22       GOFORTH & MARTI       747.35       IRWD Check         427617       26-May-22       GRAINGER       1,486.91       IRWD Check         427618       26-May-22       GRAYBAR ELECTRIC COMPANY       1,017.25       IRWD Check         427619       26-May-22       GREATER IRVINE CHAMBER OF COMMERCE       1,800.00       IRWD Check  |            |
| 427616         26-May-22         GOFORTH & MARTI         747.35         IRWD Check           427617         26-May-22         GRAINGER         1,486.91         IRWD Check           427618         26-May-22         GRAYBAR ELECTRIC COMPANY         1,017.25         IRWD Check           427619         26-May-22         GREATER IRVINE CHAMBER OF COMMERCE         1,800.00         IRWD Check  |            |
| 427617         26-May-22         GRAINGER         1,486.91         IRWD Check           427618         26-May-22         GRAYBAR ELECTRIC COMPANY         1,017.25         IRWD Check           427619         26-May-22         GREATER IRVINE CHAMBER OF COMMERCE         1,800.00         IRWD Check   | -          |
| 427619 26-May-22 GREATER IRVINE CHAMBER OF COMMERCE 1,800.00 IRWD Check   | Reconciled |
|   | Reconciled |
| 427620 26-May-22 HACH COMPANY 6 362 81 IBWD Cherk   | Reconciled |
|   | Reconciled |
| 427621 26-May-22 HARRINGTON INDUSTRIAL PLASTICS LLC 12,176.78 IRWD Check  | Negotiable |
| 427622 26-May-22 HELPMATES STAFFING SERVICES 3,264.00 IRWD Check  | Negotiable |
| 427623 26-May-22 HELPMATES STAFFING SERVICES LLC 6,600.65 IRWD Check  | •          |
| 427624 26-May-22 HI-LINE INC 492.45 IRWD Check  |            |
| 427625 26-May-22 HILL BROTHERS CHEMICAL COMPANY 10,358.39 IRWD Check  |            |
| 427626 26-May-22 HOME DEPOT USA INC 1,881.65 IRWD Check   |            |
| 427627 26-May-22 HORIZONS CONSTRUCTION CO. INT'L INC 1,249.47 IRWD Check  |            |
| 427628 26-May-22 HUANG, LIANG 680.59 IRWD Check<br>427629 26-May-22 HUNSAKER & ASSOCIATES IRVINE 13,806.00 IRWD Check   | -          |
|   | •          |
|   | •          |
| 427631         26-May-22         IMPERIAL SPRINKLER SUPPLY, INC.         238.23         IRWD Check           427632         26-May-22         INNOVATIVE MACHINE TOOL REPAIR LLC         1,582.96         IRWD Check  |            |
| 427633 26-May-22 INVOVATIVE MACHINE FOOL REFAINLED  |            |
| 427634 26-May-22 IRVINE PIPE & SUPPLY INC 2,444.97 IRWD Check   | -          |
| 427635 26-May-22 JACOBS ENGINEERING GROUP INC. 4,438.00 IRWD Check  |            |
| 427636 26-May-22 JONSET LLC 836 IRWD Check  | -          |
| 427637 26-May-22 JUST ENERGY SOLUTIONS INC. 164.17 IRWD Check   |            |
| 427638 26-May-22 KAN VENTURES, INC 7,298.07 IRWD Check  | Negotiable |
| 427639 26-May-22 KB HOMES 28.46 IRWD Check  | •          |
| 427640 26-May-22 KP PUBLIC AFFAIRS LLC 15,000.00 IRWD Check   | Reconciled |
| 427641 26-May-22 KRONICK MOSKOVITZ TIEDEMANN & GIRARD 229.15 IRWD Check   | Reconciled |
| 427642 26-May-22 KUTAK ROCK LLP 3,695.97 IRWD Check   | Reconciled |
| 427643 26-May-22 LAGUNA BEACH COUNTY WATER DISTRICT 18,174.48 IRWD Check  | Negotiable |
| 427644 26-May-22 LANDCARE HOLDINGS, INC. 1,304.00 IRWD Check  |            |
| 427645 26-May-22 LILLESTRAND LEADERSHIP CONSULTING, INC. 17,956.88 IRWD Check   |            |
| 427646 26-May-22 LINDE GAS & EQUIPMENT INC. 2,202.24 IRWD Check   |            |
| 427647 26-May-22 LSA ASSOCIATES INC 120 IRWD Check  |            |
| 427648 26-May-22 MARK ENTERPRISES TECHNOLOGIES LLC D - 11 36,737.75 IRWD Check  | Reconciled |

| InterConce         PAYMENT ANOLUT         MATO Conce         STATUS           42764         XCM-MP22         MARA KADESH         128         REVD Cinck         Negetiable           42764         XCM-MP22         MARA KADESH         128         REVD Cinck         Negetiable           42765         XCM-MP22         MARA KADESH         128         REVD Cinck         Negetiable           427654         XCM-MP22         MARA KADESH         128         REVD Cinck         Negetiable           427654         XCM-MP22         MARA KADESH         128         REVD Cinck         Negetiable           427654         XCM-MP22         NARTONIK READ WINDER CONCERT SELS, LLC         2,845.00         Rescripted           427654         XCM-MP22         NEWTORT WINDER CONCERT SELS, LLC         13.85         REVD Cinck         Negetiable           427664         XCM-MP22         NEWTORT WINDER CONCERT SELS, LLC         13.85         REVD Cinck         Negetiable           427664         XCM-MP22         NEWTORT WINDER CONCERT SELS, LLC         13.85         REVD Cinck         Negetiable           427664         XCM-MP22         NEWTORT WINDER CONCERT SELS, LLC         13.85         REVD Cinck         Negetiable           427664         XCM-MP22 <td< th=""><th>CHECK OR</th><th></th><th></th><th></th><th>PAYMENT</th><th></th></td<>   | CHECK OR     |              |   |                | PAYMENT    |            |
|--|--------------|--------------|---|----------------|------------|------------|
| 42769         26 May 22         MCF ADDEN DALE INDUSTRIAL         7.28         INVD Check         Negotable           427691         26 May 22         MSC ROUSTRIAL SUPPLY CO         2.75         INVD Check         Negotable           427693         26 May 22         MSC ROUSTRIAL SUPPLY CO         2.75         INVD Check         Negotable           427693         26 May 22         NEW CORR         5.815.LUC         2.75         INVD Check         Negotable           427694         26 May 22         NEW CORR         NEW CORR         5.815.LUC         2.916.MVD Check         Negotable           427695         26 May 22         NEW CORR         NEW CORR         S.815.VVD Check         Negotable           427697         26 May 22         NOV ROCES & RICOW TECHNOLOGE US, INC.         283.95         INVD Check         Negotable           427698         26 May 22         ONE ORDORATION         47.373         INVD Check         Negotable           427691         26 May 22         ONE ORDORATION         47.373         INVD Check         Negotable           427661         26 May 22         ONE ORDORATION         47.373         INVD Check         Negotable           427664         26 May 22         PACIC (CHORORATION         37.3570         INVD Che  | ELECTRONIC # | PAYMENT DATE | SUPPLIERS                                   | PAYMENT AMOUNT | METHOD     | STATUS     |
| 42761         3.2 Mar, 22         MCROSOFT CORPORATION         5.16.23         HKVD Clark         Recombell           427653         3.6 Mar, 22         NATIONAL READY MARED CONCRETE SALES, LIC         497.82         HKVD Clark         Recombell           427654         3.6 Mar, 22         NATIONAL READY MARED CONCRETE SALES, LIC         497.82         HKVD Clark         Recombell           427654         3.6 Mar, 22         NATIONAL READY MARED CONCRETE SALES, LIC         497.84         HKVD Clark         Negretable           427654         3.6 Mar, 22         NATIONAL READY MARED CONCRETE SALES, LIC         3.84.82         HKVD Clark         Negretable           427656         3.6 Mar, 22         OLIN COMPARI INC.         3.84.92         HKVD Clark         Negretable           427660         3.6 Mar, 22         OLIN COMPARIANCI, NIC.         3.37.73         HKVD Clark         Negretable           427640         3.6 Mar, 22         OLIN COMPORATION         3.37.73         HKVD Clark         Negretable           427641         3.4 Mar, 22         OLIN COMPORATION         3.37.73         HKVD Clark         Negretable           427642         3.4 Mar, 22         OLIN COMPORATION         3.37.73         HKVD Clark         Negretable           427643         3.4 Mar, 22   | 427649       | 26-May-22    | MARK KADESH                                 | 10,200.00      | IRWD Check | Negotiable |
| 427653         2.6 Km/22         MISC MUDISTELS SUPPLY CO         2.76         RevOrded           427653         2.6 Mm/22         REVORDER SALES, LUC         497.82         REVORDER SALES, LUC         497.82           427654         2.6 Mm/22         REVORDER SALES, LUC         2.76.50         REVORDER SALES, LUC           427684         2.6 Mm/22         REVORDER VARTER MARCE INC.         2.63.64.21         REVORDER SALES, LUC           427684         2.6 Mm/22         REVORDER VARTER SALES, LUC         4.73.43         REVORDER SALES, REVORDER SALE           427686         2.6 Mm/22         ORELLY AUTO REREWES, LL         4.73.43         REVORDER SALES, REVORDER SALE           427661         2.6 Mm/22         OLSON REMOLO LIP         4.73.73         REVORDERS         RECORDER SALES, RECORDER SALE           427662         2.6 Mm/22         OLSON REMOLO LIP         4.77.72.20         REVORDERS         RECORDER SALES, REC |              | -            |   |                |            |            |
| 427653         26 May 22         NANDARI KARY MIKE CONCRET SALES, LLC         497.83         NAND Creat.         Regenerated           427654         26-May 22         NEWO CREAT.         NEWO Creat.         Regenerated           427655         26-May 22         NEWO CREAT.         NEWO Creat.         Regenerated           427657         26-May 22         NEWO CREAT.         Resonated         Reconstruct           427657         26-May 22         NEWO Creat.         Reconstruct         1.84.8         NEWO Creat.         Reconstruct           427658         26-May 22         NEWO Creat.         NEWO Creat.         Reconstruct         New Creat.         Reconstruct           427668         26-May 22         OLIC CORPORATION         47.713.97         NEWO Creat.         Reconstruct           427663         26-May 22         OLIC CORPORATION         5.724.6         NEWO Creat.         Reconstruct           427663         26-May 22         OLIC CREATIONAL UTO PARTS CO         1.77.20         NEWO Creat.         Reconstruct           427664         26-May 22         PACIT: HYDROTECH CORPORATION         5.724.6         NEWO Creat.         Reconstruct           427665         26-May 22         PACIT: HYDROTECH CORPORATION         5.724.6         NEWO Creat. <td< td=""><td></td><td>-</td><td></td><td></td><td></td><td></td></td<>   |              | -            |   |                |            |            |
| 427654         2C May 22         NEWORT WINDOW MAINTENANCE INC         2,74500         INWO Creck         Regatable           427655         2E-MAY-22         NEWO Creck         Regatable         Reconciled           427656         2E-MAY-22         NEWO Creck         Reconciled         Reconciled           427657         2E-MAY-22         NEWO Creck         Reconciled         Reconciled           427658         2E-MAY-22         NEWO Creck         Reconciled         Reconciled           427651         2E-MAY-22         NEWO Creck         Reconciled         Reconciled           427661         2E-MAY-22         OSON ESKONOLUP         417.677         INWO Creck         Reconciled           427663         2E-MAY-22         OSON ESKONOLUP ARTO PARTS CO         1,775.20         INWO Creck         Reconciled           427664         2E-MAY-22         OSON ESKONOLUP ARTO PARTS CO         1,755.20         INWO Creck         Reconciled           427665         2E-MAY-22         ACRICIC TARGETORINON         1,275.20         INWO Creck         Reconciled           427666         2E-MAY-22         ACRICIC TARGETORINON         1,275.20         INWO Creck         Reconciled           427671         2E-MAY-22         ACRICIC TARGETORINON         1,275.31<   |              | -            |   |                |            | -          |
| 42765         22-Miy 22         NUCPORT MINICOW MANTENACE INC.         5.86.42         INVD Check Recorded<br>Recorded<br>Recorded           42765         25-Miy 22         NOV PROCESS R.IOW TECHNOLOGIS US, INC.         18.95         INVD Check Recorded<br>Recorded         Recorded<br>Recorded           42765         25-Miy 22         OV RECORS R.IOW TECHNOLOGIS US, INC.         18.47         INVD Check Recorded<br>Recorded         Recorded<br>Recorded           42766         25-Miy 22         OV RELIX ALT COMPORATION         17.47         INVD Check Recorded<br>Recorded         Recorded<br>Recorded           42766         25-Miy 22         OV RELIX ALT COMPORATION         17.47         INVD Check Recorded<br>Recorded         Recorded<br>Recorded           42766         25-Miy 22         PACIFIC HYDRIFCH COMPORATION         17.47.15.4         INVD Check Recorded           42766         25-Miy 22         PACIFIC HYDRIFCH COMPORATION         1.07.7.15.4         INVD Check Recorded           42766         25-Miy 22         PACIFIC HYDRIFCH COMPORATION         1.07.7.15.4         INVD Check Recorded           42766         25-Miy 22         PACIFIC HYDRIFCH COMPORATION         1.07.7.1         INVD Check Recorded           42766         25-Miy 22         PARIFIC HYDRIFCH COMPORATION         1.07.7.1         INVD Check Recorded           42767         25-Miy 22   |              | -            |   |                |            |            |
| 42765         25.Min 22         NIXON EGU EQUIVMENT COMPARITINC.         58.84.2         NIXO Enclet.         Reconciled           427657         25.Min 22         NIXON EGUS E ALOW TECHNOLOGIES U, INC.         18.91         NIXO Enclet.         Reportable           427658         25.Min 22         OLIN CORPORATION         21.51         NIXO Enclet.         Reportable           427660         25.Min 22         OLIN CORPORATION         47.73.30         NIXO Enclet.         Reconciled           427661         25.Min 22         OLIN CORPORATION         3.74.24         NIXO Enclet.         Reconciled           427662         25.Min 22         OLIN CORPORATION         3.75.24         NIXO Enclet.         Reconciled           427663         25.Min 22         OLIN CORPORATION         3.75.24         NIXO Enclet.         Reconciled           427664         25.Min 22         PARTIC STAR CONDATION         3.75.24         NIXO Enclet.         Reconciled           427666         25.Min 22         PARTIC STAR CONDATION         1.07.31.54         NIXO Enclet.         Reconciled           427667         25.Min 22         PARTIC STAR CONDATION         1.07.31.54         NIXO Enclet.         Reconciled           427671         25.Min 22         PARTIC STAR CONDATION         1.07.31.   |              | -            |   |                |            | -          |
| 42767         26-May-22         NVD PROCESS R. DWTECHNOLOGIS U.S. NC.         18.85         INWD Check         Regolabile           427658         26-May-22         OYKLILY ALID ENTERPRISES, LLC         12.4.7         INWD Check         Regolabile           427660         26-May-22         OYKLILY ALID ENTERPRISES, LLC         12.4.7         INWD Check         Reconciled           427661         26-May-22         OXKLILY ALID ENTERPRISES, LLC         497         INWD Check         Reconciled           427661         26-May-22         OXKLILY ALID ENTERPRISES, LLC         497         INWD Check         Reconciled           427663         26-May-22         OXKLILY ALID ENTERPRISES, LLC         10.71.35.4         INWD Check         Reconciled           427663         26-May-22         PARTIC HYDROTECH CORPORTICION         12.77.43         INWD Check         Reconciled           427663         25-May-22         PARCHIC HYDROTECH CORPORTICION         1.04.73         INWD Check         Reconciled           427661         25-May-22         PARCHIC HYDROTECH CORPORTICION         1.04.73         INWD Check         Reconciled           427671         25-May-22         PARCHIC HYDROTECH CORPORTICION         1.04.73         INWD Check         Reconciled          427671         25-May-22 <td< td=""><td></td><td>-</td><td></td><td></td><td></td><td></td></td<>   |              | -            |   |                |            |            |
| 427658         26.4May-22         VNAMTASHIN, TSTIMUUN         28.14.2         IRVD Check         Megatiable           427659         26.4May-22         OUN CONTANTON         47.38.3         IRVD Check         Megatiable           427660         26.4May-22         OUN CONTANTON         47.38.3         IRVD Check         Megatiable           427661         26.4May-22         OUN CONTANTON         3.37.67.2         IRVD Check         Megatiable           427663         26.4May-22         ORACIE AMRIECA, INC.         3.37.67.2         IRVD Check         Megatiable           427664         26.4May-22         PACINE (NORDITEC) CONFUNCTION         3.37.67.6         IRVD Check         Megatiable           427665         26.4May-22         PACINE (NORDITEC) CONFUNCTION         1.07.1.33.4         IRVD Check         Megatiable           427666         26.4May-22         PERILSENDRIES INC.         1.00.00.0         IRVD Check         Megatiable           427667         26.4May-22         PERILSENDRIES INC.         1.00.00.0         IRVD Check         Megatiable           427671         26.4May-22         PERILSENDRIES INC.         1.00.00.0         IRVD Check         Megatiable           427672         26.4May-22         RECK, INNM         2.00.00.0         IRVD Chec  |              |              | -   |                |            |            |
| 427693         25-May 22         O'RELLY AUD CONTRINES, LLC         14.24.7         IRVD Check         Negotiable           427661         25 May 22         OLSON REMOLO LLP         4.97         18.72.7         IRVD Check         Negotiable           427662         25 May 22         ORANGE CONTRY AUTO PARTS CO         1.77.72.8         IRVD Check         Negotiable           427663         25 May 22         ORANGE CONTRY AUTO PARTS CO         1.77.72.0         IRVD Check         Negotiable           427664         25 May 22         ORANGE CONTRY AUTO PARTS CO         1.77.72.0         IRVD Check         Negotiable           427666         26 May 22         PACHE (MORDIEEL CORFORATION         0.72.31.35.44         IRVD Check         Negotiable           427666         26 May 22         PACHE (MORDIEEL CORFORATION         1.01.47         IRVD Check         Negotiable           427667         26 May 22         PACHE (MORDIEEL CORFORATION         1.01.61.7         IRVD Check         Negotiable           427661         26 May 22         PACHE (MORDIEEL CORFORATION         1.01.61.7         IRVD Check         Negotiable           427672         26 May 22         PACHE (MORTER MATRINE, INC.         1.10.61.7         IRVD Check         Negotiable           427677         26 May 22 </td <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td>  |              | -            |   |                |            |            |
| 427650         26-May-22         OLN CONFORMICION         647.38.9         INVD Check         Reconciled           427661         26-May-22         ORACLE AMERICA, INC.         3.577.4         INVD Check         Reconciled           427663         26-May-22         ORACLE AMERICA, INC.         3.577.6         INVD Check         Reconciled           427664         26-May-22         PACIFIC INVDRICE CONFORTION         9.757.20         INVD Check         Reconciled           427665         26-May-22         PACIFIC INVDRICE CONFORTION         9.757.20         INVD Check         Reconciled           427666         26-May-22         PACIFIC INVDRICE CONFORTION         1.031.355.60         IRVD Check         Reconciled           427667         26-May-22         PACIFIC INVDRICE INCALL LC         2.827.47         IRVD Check         Reconciled           427670         26-May-22         PACIFIC INVDRICE INCALL LC         1.040.00         IRVD Check         Reportable           427671         26-May-22         PACIFIC INVDRICE INCALL CC         1.040.00         IRVD Check         Reportable           427671         26-May-22         PACIFIC INSTITUT OF CALIFORMA         0.000.00         IRVD Check         Reportable           427671         26-May-22         PACIFIC INSTITUT OF CALIFO  |              | -            |   |                |            | -          |
| 427661         26 May 22         05XP REMORD UP         4377         8 RWD Cneck         Reconciled           427663         25 May 22         0RANGE CONTY AUTO PARTS CO         1,775.0         RWD Cneck         Reconciled           427664         25 May 22         PACIFIC HYDORTECH CORPORATION         47.246.8         RWD Cneck         Reconciled           427664         25 May 22         PACIFIC HYDORTECH CORPORATION         47.248.9         RWD Cneck         Reconciled           427666         26 May 22         PACIFIC HYDORTECH CORPORATION         47.248.9         RWD Cneck         Reconciled           427666         26 May 22         PACIFIC HYDORTECH CORPORATION         28.24         RWD Cneck         Reconciled           427667         26 May 22         PACIFIC HYDORTECH CORPORATION         28.26         RWD Cneck         Reconciled           427670         26 May 22         PERUSSE-MORINS PARITING, INC.         31.35.64         RWD Cneck         Reconciled           427671         26 May 22         PERUSSE-MORINS PARITING, INC.         32.8         RWD Cneck         Reconciled           427673         26 May 22         RWD Cneck MRECONTRIC         2000.00         RWD Cneck         Reconciled           427674         26 May 22         RWD Cneck MRECONTRIC   |              | -            | ,   |                |            | -          |
| 427682         256.May-22         ORACE CONTY AUTO PARTS CO         1,772.45         HWD Oncek         Reconciled           427664         256.May-22         PACHEC INTROTTCH CORPORATION         9,376.07         HWD Oncek         Negotitable           427665         256.May-22         PACHEC INTROTTCH CORPORATION         1,273.13         HWD Oncek         Negotitable           427666         256.May-22         PACHEC INTROTTCH CORPORATION         1,273.13         HWD Oncek         Reconciled           427666         256.May-22         PACHEC INTROTTCH CORPORATION         1,31.55.00         HWD Oncek         Reconciled           427669         256.May-22         PARHEUSE TREINC         1,16.60.00         HWD Oncek         Reconciled           427670         26.May-22         PIENCE KNNY         2,32.6         HWD Oncek         Negotitable           427671         26.May-22         PIENCE KNNY         2,30.000         HWD Oncek         Negotitable           427671         26.May-22         PIENCE KNNY         2,30.000         HWD Oncek         Negotitable           427673         26.May-22         FINAL HERCE, NAC         2,00.000         HWD Oncek         Negotitable           427674         26.May-22         FINAL HERCE, ANSOLARES LUC         3,34.6 <td< td=""><td></td><td>-</td><td></td><td></td><td></td><td></td></td<>   |              | -            |   |                |            |            |
| 427663         26-Mmy-22         ORANGE COUNTY AUTO PARTS CO         1,77.30         IRVD Check         Negotiable           427664         25 Mmy-22         PACIFIC VIDBOTCH CORPORATION         47,284.33         IRVD Check         Negotiable           427665         26 Mmy-22         PACIFIC VIDBOTCH CORPORATION         1,27,315.44         IRVD Check         Negotiable           427667         26 Mmy-22         PACIFIC VIDBOTCH CORPORATION         1,27,315.44         IRVD Check         Reconciled           427669         26 Mmy-22         PACIFIC STRAI CHEMICAL, LIC         2,374.77         IRVD Check         Reconciled           427670         26 Mmy-22         PERUSEX NORINS PAINTING, INC.         3,256.00         IRVD Check         Negotiable           427671         26 Mmy-22         PROLET PATTINES LC         10,000.00         IRVD Check         Negotiable           427672         26 Mmy-22         RENTOBIL NORTH NERS LC         3,304.37         IRVD Check         Negotiable           427674         26 Mmy-22         RENTOBIL NORTH AVERICA, INC         3,304.37         IRVD Check         Negotiable           427675         26 Mmy-22         RENTOBIL NORTH AVERICA, INC         3,304.37         IRVD Check         Negotiable           427676         26 Mmy-22         SAMM  |              | -            |   |                |            |            |
| 42664         26-Mmy-22         PACIFIC PURDOTECH CORPORATION         9,78.007         HWD Check         Negotiable           427665         26-Mmy-22         PACIFIC PURDOTECH CORPORATION         1,07.31.34.41         HWD Check         Negotiable           427666         26-Mmy-22         PACIFIC STAR CHEMICAL, LLC         2,827.47         HWD Check         Reconciled           427668         26-Mmy-22         PERUSSE-NORBIS PANTING, INC.         3,55.60         HWD Check         Reconciled           427670         26-Mmy-22         PERUSSE-NORBIS PANTING, INC.         3,55.60         HWD Check         Negotiable           427671         26-Mmy-22         PERUSE NORBIS INC.         1,65.000         HWD Check         Negotiable           427672         26-Mmy-22         PERUSE NORBIS USA, INC.         2,000.00         HWD Check         Negotiable           427673         26-Mmy-22         PUBLC POLICY INSTITUTE OF CALIFONNIA         1,000.00         HWD Check         Negotiable           427675         26-Mmy-22         HAM JRE NOINE KEINNE INC.         2,000.00         HWD Check         Negotiable           427676         26-Mmy-22         HUNCHT TWOLC CHARCHENCE         2,30.41         HWD Check         Negotiable           427678         26-Mmy-22         NM ARE NOINESCHW  |              | -            |   |                |            |            |
| 427665         26 May-22         PACIFIC PRODECTIC CORPORATION         47,243,31         RWD Check         Negotiable           427666         26 May-22         PACIFIC STRA CHEMICAL, LLC         2,827,47         RWD Check         Reconciled           427667         26 May-22         PACIFIC STRA CHEMICAL, LLC         2,827,47         RWD Check         Reconciled           427668         26 May-22         PERUSES NORRIS PMITTING, INC.         3,155,60         RWD Check         Reconciled           427670         26 May-22         PERUSES NORRIS PMITTING IC         10,000,00         RWD Check         Negotiable           427671         26 May-22         PERUSES NORRIS PMITTURE OF CALFORNIA         10,000,00         RWD Check         Negotiable           427672         26 May-22         RUNCIC PACIFIC NERIS NICC         3,364,31         RWD Check         Negotiable           427673         26 May-22         RUND Chuck         Negotiable         Reconciled         427677           26 May-22         RUND Chuck         Negotiable         3,34,33         RWD Check         Negotiable           427677         26 May-22         SHUG RUNCI CHUCK RESING         2,34,43         RWD Check         Negotiable           427680         26 May-22         SHU ARA ESOLEX RESOLEX <t< td=""><td></td><td>-</td><td></td><td></td><td></td><td></td></t<>   |              | -            |   |                |            |            |
| 427667         25.May 22         PACIFIC STAR CHEMICAL, LLC         1.4.97.27         INVD Check         Reconcilied           427668         25.May 22         PERKUSSE NORRIS PAINTING, INC.         3.25.60         INVD Check         Reconcilied           427670         25.May 22         PERCE, IERNY         3.25.60         INVD Check         Negotiable           427671         25.May 22         PROJICE PARTNERS LLC         11.050.00         INVD Check         Negotiable           427673         25.May 22         PROJICE PARTNERS LLC         13.060.00         INVD Check         Negotiable           427674         25.May 22         PUBLIC POLICY INTUTOR OF CALIFORNIA         2.03.00.00         INVD Check         Negotiable           427675         25.May 22         RENTONIL NORTH AMERICA, INC         .5.31.46.31         INVD Check         Negotiable           427676         25.May 22         RENTONIC NORTH AMERICA, INC         .5.31.46.31         INVD Check         Negotiable           427676         25.May 22         RENTONIC CONTER INC.         .7.39.36         INVD Check         Negotiable           427678         25.May 22         RING CONTER INC.         .7.39.36         INVD Check         Negotiable           427679         25.May 22         SAN ANA RE NING PERSTONANY,   | 427665       | -            | PACIFIC HYDROTECH CORPORATION               |                | IRWD Check | -          |
| 1427668         25.M.wy-22         PARKHOUSE THE INC         1.510.79         IRWO Check         Reconciled           1427670         25.M.wy-22         PERDESC MORRIS PANTING, INC         3.515.50         IRWO Check         Negritable           1427671         25.M.wy-22         PERDECT PARTNERS LIC         1.56.00         IRWO Check         Negritable           1427671         25.M.wy-22         PUBLC POLICY INSTITUTE OF CALFORNIA         2.000.00         IRWO Check         Negritable           1427671         25.M.wy-22         RAM AR LEGINEETUS, INC.         5.314.63         IRWO Check         Reconciled           1427672         25.M.wy-22         RANTORI, INORTH AMERICA, INC.         5.314.63         IRWO Check         Negotiable           1427675         25.M.wy-22         RINTORI, INORTH AMERICA, INC.         5.314.63         IRWO Check         Negotiable           1427677         25.M.wy-22         RINTORI, INSC. CEVITER INC.         2.75         IRWO Check         Negotiable           1427678         26.M.wy-22         SHUGHES COMPANY, INC.         2.75         IRWO Check         Negotiable           142768         26.M.wy-22         SANTAAK ABLE PRINT         1.981-93         IRWO Check         Negotiable           1427681         26.M.wy-22         SANTA AK ABLE   | 427666       | 26-May-22    | PACIFIC HYDROTECH CORPORATION               | 1,073,135.44   | IRWD Check | Negotiable |
| 427669         26-May-22         PETRUSE-NORMIS PAINTING, INC.         3,255.00         INWO Check         Negotiable           427670         25-May-22         PRICIC, FENTY         1,260.00         INWO Check         Negotiable           427671         25-May-22         PRICIC PARTNERS LIC         1,000.00         INWO Check         Negotiable           427673         25-May-22         QUADIENT FINANCE USA, INC.         6,39.47         INWO Check         Reconciled           427674         25-May-22         RENTOKIL NORTH AMERICA, INC.         5,31.61.63         INWO Check         Negotiable           427676         25-May-22         RENTOKIL NORTH AMERICA, INC.         5,31.61.63         INWO Check         Negotiable           427676         25-May-22         RINCON TRUCK CENTER INC.         2,37.83         INWO Check         Negotiable           427678         25-May-22         SENTHAXES COMPANY, INC.         2,39.50         INWO Check         Negotiable           427678         25-May-22         SANT ANA BUC AVARTMENTS         2,39.50         INWO Check         Negotiable           427681         25-May-22         SANT ANA BUC AVARTMENTS         2,39.50         INWO Check         Negotiable           427682         25-May-22         SANT ANA BUC AVARTMENTS  | 427667       | 26-May-22    | PACIFIC STAR CHEMICAL, LLC                  | 2,827.47       | IRWD Check | Reconciled |
| 427670         26-May-22         PIROEC, RATINERS LIC         11.6500.00         IRWD Check         Negotiable           427671         26-May-22         PUBLIC PARTINERS LIC         10.000.00         IRWD Check         Negotiable           427672         26-May-22         PUBLIC PARTINERS LIC         2.000.00         IRWD Check         Negotiable           427673         26-May-22         RAM AR ENGINEERING INC         2.000.00         IRWD Check         Negotiable           427676         26-May-22         RICHOR IN DATE AMERICA, INC         2.000.00         IRWD Check         Negotiable           427676         26-May-22         RICHOR IN DATE C SLADE & ASSOCIATES LLC         5.314.63         IRWD Check         Negotiable           427678         26-May-22         RICHOR TRUCK CHTER INC.         2.509.51         IRWD Check         Negotiable           427678         26-May-22         SAL ARCO APARTINERS         2.509.51         IRWD Check         Negotiable           427681         26-May-22         SAL FLY KLER INSTEINS, INC         2.509.51         IRWD Check         Negotiable           427682         26-May-22         SANTA ANA BUE PARTINERS         3.81         IRWD Check         Negotiable           427683         26-May-22         SANTA ANA BUE PARTINERS   | 427668       | 26-May-22    | PARKHOUSE TIRE INC                          | 1,104.79       | IRWD Check | Reconciled |
| 427671         26-May-22         PROJECT PARTNERS LLC         11,650.00         IRWD Check         Negotiable           427673         26-May-22         QUADENT FINANCE USA, INC.         2,000.00         IRWD Check         Negotiable           427675         26-May-22         QUADENT FINANCE USA, INC.         6,304.07         IRWD Check         Negotiable           427676         26-May-22         RENTORIK NORTH AMERICA, INC.         2,000.00         IRWD Check         Negotiable           427677         26-May-22         RINCON TRUCK CENTER INC.         378.36         IRWD Check         Negotiable           427677         26-May-22         RINCON TRUCK CENTER INC.         2,093.00         IRWD Check         Negotiable           427678         26-May-22         RINCON TRUCK CENTER INC.         2,093.00         IRWD Check         Negotiable           427680         26-May-22         SAN HARCADARTINENTS         0.038         IRWD Check         Negotiable           427681         26-May-22         SANTA AMARABARTAFORD         1.31.7         IRWD Check         Negotiable           427686         26-May-22         SANTA MARABARTAFORD         4.58.00         IRWD Check         Negotiable           427686         26-May-22         SANTA MARABARTAFORD         4.59.00  | 427669       | 26-May-22    | PETRUSSE-NORRIS PAINTING, INC.              | 3,155.60       | IRWD Check | Reconciled |
| 427672         26 May-22         PUBLIC POLICY INSTITUTE OF CALIFORMA         10,000.00         IRWD Check         Regatiable           427673         26-May-22         RIMA RE NOINFERING INC         2,000.00         IRWD Check         Reconciled           427675         26-May-22         RENTOKIL NORTH AMERICA, INC         5,314.63         IRWD Check         Negotiable           427676         26-May-22         RICHARD C. SLOPE & ASSOCIATES LLC         5,314.63         IRWD Check         Negotiable           427677         26-May-22         RINCOL TRUCK CENTER INC.         2,599.50         IRWD Check         Negotiable           427678         26-May-22         SALTY-KLER SYSTEMS, INC         2,599.50         IRWD Check         Negotiable           427681         26-May-22         SALTY-KLER SYSTEMS, INC         2,599.50         IRWD Check         Negotiable           427682         26-May-22         SANTA MARCU APATITMTS         90.98         IRWD Check         Negotiable           427683         26-May-22         SANTA MARCU APATITMTS         90.58         IRWD Check         Negotiable           427684         26-May-22         SANTA MARCU APATITMT         1,891.50         NEW Check         Negotiable           427685         26-May-22         SANTA MAREULE PINT  |              | 26-May-22    |   |                |            | -          |
| 427673         25.40m/22         QUADIENT FINANCE USA, INC.         2,000.00         RWD Check         Reconciled           427675         26.40m/22         RENTORIU MORTH AMERIAG, INC         2,000.00         RWD Check         Negotiable           427676         26.40m/22         REINTORIU MORTH AMERIAG, INC         2,000.00         RWD Check         Negotiable           427677         26.40m/22         RICHARD C. SLADE & ASSOCIATES LLC         3,31.6         IRWD Check         Negotiable           427677         26.40m/22         RNILCON TRUCC CONTEN INC.         2,309.00         IRWD Check         Negotiable           427678         26.40m/22         SATET ALES COMPANY, INC.         2,205.00         IRWD Check         Reconciled           427680         26.40m/22         SATET ANA RE COMPANY, INC.         275         IRWD Check         Reconciled           427681         26.40m/22         SATA ANA BLUE PRINT         1,991.95         IRWD Check         Reconciled           427682         26.40m/22         SATA ANA SULP PRINT         1,991.95         IRWD Check         Reconciled           427683         26.40m/22         SATA AMASRARIA FORD         4,51.0         IRWD Check         Reconciled           427684         26.40m/22         SATAT AMASRARIA FORD  |              | -            |   |                |            | -          |
| 427674         26.4May-22         RAM RIE NGINEERING INC         6.390.47         RIVD Cinck Repitable           427675         26.4May-22         RENTOKI NORT AMERICA, INIC         2,000.00         RIVD Cinck Negritable           427676         26.4May-22         RINCON TRUCK CENTER INC.         378.36         IRVD Cinck Negritable           427677         26.4May-22         RINCON TRUCK CENTER INC.         378.36         IRVD Cinck Negritable           427678         26.4May-22         RINCON TRUCK CENTER INC.         2,005.0         IRVD Cinck Negritable           42768         26.4May-22         SATETY-KLEEN SYSTEMS, INC.         2,005.0         IRVD Cinck Negritable           42768         26.4May-22         SATETY-KLEEN SYSTEMS, INC.         39.98         IRVD Cinck Negritable           42768         26.4May-22         SATETY-KLEEN SYSTEMS, INC.         25.81         RSUD Cinck Negritable           42768         26.4May-22         SATETY-KLEEN SYSTEMS, INC.         25.81         RSUD Cinck Negritable           42768         26.4May-22         SATETY-KLEEN SYSTEMS, INC.         25.81         RSUD Cinck Negritable           42768         26.4May-22         SATET ARKNOCK SUPLY CO INC         453.2         IRVD Cinck Negritable           42768         26.4May-22         SITETING         45.1   |              | -            |   |                |            | -          |
| 427675         26-May-22         RECHABO C. SLADE & ASSOCIATES LLC         5.31.4.6.3         IRWD Check         Negotiable           427676         26-May-22         RICHABO C. SLADE & ASSOCIATES LLC         373.4.6         IRWD Check         Negotiable           427677         26-May-22         RICON TRUCC KOTTEN INC.         373.4.6         IRWD Check         Negotiable           427678         26-May-22         SATETY-KLEEN SYSTEMS, INC.         2.709.00         IRWD Check         Reconciled           427680         26-May-22         SATETA ANA BLUE PRINT         3.99.8         IRWD Check         Reconciled           427681         26-May-22         SATAT ANARGARTA FORD         54.1.7         IRWD Check         Negotiable           427682         26-May-22         SATAT AMARGARTA FORD         52.1         IRWD Check         Negotiable           427683         26-May-22         SATAT AMARGARTA FORD         45.2         IRWD Check         Negotiable           427684         26-May-22         SATAT AMARGARTA FORD         52.1         IRWD Check         Negotiable           427685         26-May-22         SITATA INT ANA BLUE PRINT         1.94.9.2         IRWD Check         Negotiable           427686         26-May-22         SITATATICA, INALIEA         NEGOTIANEA   |              | -            |   |                |            |            |
| 427676         2F-May-22         RINCON TRUCK CENTER INC.         378.35         IRWD Check         Negotiable           427677         26-May-22         RINCON TRUCK CENTER INC.         378.35         IRWD Check         Negotiable           427678         26-May-22         ROLL RITE         1,799.24         IRWD Check         Negotiable           427678         26-May-22         SAFETY KELEN SYSTEMS, INC         2,509.50         IRWD Check         Negotiable           427681         26-May-22         SART MARGARTA FOND         19.81.95         IRWD Check         Negotiable           427683         26-May-22         SANTA MARGARITA FOND         53.31.7         IRWD Check         Negotiable           427684         26-May-22         SINATA MARGARITA FOND         45.30.00         IRWD Check         Negotiable           427685         26-May-22         SINATROL         45.80.00         IRWD Check         Negotiable           427688         26-May-22         SINATROL         2.80.00         IRWD Check         Negotiable           427688         26-May-22         SINATROL         2.80.00         IRWD Check         Negotiable           427689         26-May-22         SOUTHER CALIFORNIA DEGON COMPANY         4.90.00.00         IRWD Check         Negotiab   |              | -            |   |                |            |            |
| 427677         26.May-22         RINCX CENTER INC.         378.36         IRWD Check         Negotiable           427678         26.May-22         RS HUGHES COMPANY, INC.         1,799.84         IRWD Check         Negotiable           427679         26.May-22         SAFTY-KLEEN SYSTEMS, INC.         275         IRWD Check         Negotiable           427680         26.May-22         SAN MARCO APARTIMENTS         90.98         IRWD Check         Negotiable           427681         26.May-22         SANTA ANA BLUE PRINT         1,891.55         IRWD Check         Negotiable           427682         26.May-22         SANTA ANA BLUE PRINT         1,891.55         IRWD Check         Negotiable           427683         26.May-22         SANTA ANA SUPPLY CO INC         76.58         IRWD Check         Negotiable           427686         26.May-22         SITAMTIC         458.00         IRWD Check         Negotiable           427686         26.May-22         SITAMTIC         50         IRWD Check         Negotiable           427688         26.May-22         SOLA, WAVU         50         IRWD Check         Negotiable           427691         26.May-22         SOLT-FICA ALLORDANA         429.60.00         IRWD Check         Negotiable <t< td=""><td></td><td>-</td><td></td><td></td><td></td><td>-</td></t<>   |              | -            |   |                |            | -          |
| 427678         26-May-22         RS HUGHES COMPANY, INC.         2.509.50         IRWD Check         Regoriable           427680         26-May-22         SAFETY-KLEEN SYSTEMS, INC.         2.509.50         IRWD Check         Regoriable           427680         26-May-22         SAFETY-KLEEN SYSTEMS, INC.         9.038         IRWD Check         Recornciled           427683         26-May-22         SANTA MARGARTA FORD         543.17         IRWD Check         Recornciled           427684         26-May-22         SANTA MARGARTA FORD         543.17         IRWD Check         Recornciled           427685         26-May-22         SHIMARCA SUPPLY CO INC         455.2         IRWD Check         Regoriable           427686         26-May-22         SITMARC         1980         IRWD Check         Recornciled           427687         26-May-22         SITMARCO         1870         IRWD Check         Recornciled           427688         26-May-22         SITMARCO         1870         IRWD Check         Recornciled           427689         26-May-22         SITMARCO         1870         IRWD Check         Recornciled           427680         26-May-22         SOUTH COAST AR QUALITY MANAGEMENT DISTRICT         1.294.940.01         IRWD Check         Recornc   |              | -            |   |                |            | -          |
| 427679         26-May-22         SAFETY-KLEES COMPANY, INC         2,509.50         IRWD Check         Negotiable           427680         26-May-22         SANTA ANA BULE PRINT         9.09.8         IRWD Check         Negotiable           427682         26-May-22         SANTA ANA BULE PRINT         1,891.95         IRWD Check         Negotiable           427683         26-May-22         SANTA ANA BULE PRINT         1,891.95         IRWD Check         Negotiable           427684         26-May-22         SANTA ANA BULE PRINT         1,891.95         IRWD Check         Negotiable           427685         26-May-22         SANTA ANA GARTA FORD         543.17         IRWD Check         Negotiable           427686         26-May-22         SINTACON SUPPLY CO INC         455.00         IRWD Check         Negotiable           427687         26-May-22         SINTATCO         641.67         IRWD Check         Negotiable           427688         26-May-22         SONT-KOATAIR QUALITY MANAGEMENT DISTRICT         12.94.94         IRWD Check         Negotiable           427690         26-May-22         SOUTHERN CALIFORNIA EDISON COMPANY         429.450.09         IRWD Check         Negotiable           427694         26-May-22         SOUTHERN CALIFORNIA EDISON COMPANY         <   |              | -            |   |                |            | -          |
| 427880         26-May-22         SARTY-KLERN SYSTEMS, INC         275         IRWD Check         Reconciled           427681         26-May-22         SANTA ANA BLUE PRINT         19.918         IRWD Check         Reconciled           427682         26-May-22         SANTA ANA BLUE PRINT         19.919         IRWD Check         Reconciled           427683         26-May-22         SANTA ANAGARITA FORD         543.17         IRWD Check         Reconciled           427684         26-May-22         SANTA ANAGARITA FORD         455.2         IRWD Check         Regotiable           427685         26-May-22         SIATA MARCO SUPPLY CO INC         455.2         IRWD Check         Regotiable           427686         26-May-22         SINATICAL INC         641.67         IRWD Check         Regotiable           427687         26-May-22         SONG, WAIYU         50         IRWD Check         Reconciled           427689         26-May-22         SOUTHERN CALIFORNA EDISON COMPANY         429.450.0         IRWD Check         Reconciled           427692         26-May-22         SOUTHERN CALIFORNA EDISON COMPANY         84.41         IRWD Check         Reconciled           427692         26-May-22         SOUTHERN CALIFORNA EDISON COMPANY         84.41         IRWD C  |              | -            |   |                |            |            |
| 427681         26.May-22         SAN MARCO APATMENTS         90.98         RWD Check         Negotiable           427682         26.May-22         SANTA ANA BLUE PRINT         1,891.95         IRWD Check         Reconciled           427683         26.May-22         SANTA ANA BLUE PRINT         563.17         IRWD Check         Negotiable           427684         26.May-22         SANTA ANA BLUE PRINT         563.17         IRWD Check         Negotiable           427685         26.May-22         SHAMROK SUPPLY CO INC         455.2         IRWD Check         Negotiable           427686         26.May-22         SITATIC         641.67         IRWD Check         Negotiable           427686         26.May-22         SITATIC         1,294.92         IRWD Check         Negotiable           427689         26.May-22         SOLTH COAST AIR QUALITY MANAGEMENT DISTRICT         1,294.92         IRWD Check         Negotiable           427691         26.May-22         SOLTHERN CALIFORNIA EDISON COMPANY         429.450.09         IRWD Check         Negotiable           427693         26.May-22         SOLTHERN CALIFORNIA EDISON COMPANY         229.07         IRWD Check         Negotiable           427694         26.May-22         SOLTHERN CALIFORNIA EDISON COMPARI         2,92.97<   |              | -            |   |                |            | •          |
| 427682         26-May-22         SANTA ANA BLUE PRINT         1.891-95         RRVD Check         Reconciled           427683         26-May-22         SANTA ANA RAGRITA FORD         543.17         IRVD Check         Reconciled           427684         26-May-22         SFAL ANALYTICAL INC         726.38         IRVD Check         Negotiable           427685         26-May-22         STESTING         45.50         IRVD Check         Negotiable           427686         26-May-22         SITSTING         641.67         IRVD Check         Negotiable           427686         26-May-22         SITATIC         641.67         IRVD Check         Negotiable           427687         26-May-22         SOLTH COAST ARI QUALITY MANAGEMENT DISTRICT         1,294.92         IRVD Check         Negotiable           427690         26-May-22         SOUTH COAST ARI QUALITY MANAGEMENT DISTRICT         1,294.92         IRVD Check         Negotiable           427691         26-May-22         SOUTH COAST ARI QUALITY MANAGEMENT DISTRICT         1,294.92         IRVD Check         Negotiable           427692         26-May-22         SOUTH FRIN CALIFORNIA GAS COMPANY         2,29.07         IRVD Check         Negotiable           427693         26-May-22         STAMTE CONSUNICNS         2,2   |              | -            |   |                |            |            |
| 427683         26 May-22         SANTA MARGARITA FORD         543.17         IRWD Check         Reconciled           427684         26-May-22         SEAL ANALYTICAL INC         726.98         IRWD Check         Negotiable           427686         26-May-22         SIHAMCCK SUPPLY CO INC         455.2         IRWD Check         Negotiable           427686         26-May-22         SITESTING         641.67         IRWD Check         Negotiable           427687         26-May-22         SIMATIC         641.67         IRWD Check         Negotiable           427689         26-May-22         SIMA-ON INCORPORATED         82.71         IRWD Check         Reconciled           427690         26-May-22         SOUTHERN CALIFORNIA EDISON COMPANY         294.92         IRWD Check         Negotiable           427691         26-May-22         SOUTHERN CALIFORNIA GAS COMPANY         2.29.07         IRWD Check         Negotiable           427692         26-May-22         SOUTHERN CALIFORNIA GAS COMPANY         2.29.97.02         IRWD Check         Negotiable           427694         26-May-22         SULT REATMENT SOLUTIONS INC.         2.09.97.42         IRWD Check         Negotiable           427695         26-May-22         SULE ADVERTISING INC.         2.09.97.42         <  |              | -            |   |                |            | -          |
| 427684         26 May-22         SEAL ANALYTICAL INC         72.63.8         IRWD Check         Negotiable           427685         26 May-22         SITESTING         455.2         IRWD Check         Negotiable           427686         26 May-22         SITESTING         456.00         IRWD Check         Negotiable           427687         26 May-22         SITMATIC         641.67         IRWD Check         Reconciled           427687         26 May-22         SONG, WANYU         50         IRWD Check         Reconciled           427690         26 May-22         SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT         1,294.92         IRWD Check         Negotiable           427691         26 May-22         SOUTHERN CALIFORNIA EDISON COMPANY         42,496.09         IRWD Check         Negotiable           427692         26 May-22         SOUTHERN CALIFORNIA EDISON COMPANY         84.41         IRWD Check         Negotiable           427693         26 May-22         SOUTHERN CALIFORNIA EDISON COMPANY         2,29.07         IRWD Check         Negotiable           427695         26 May-22         SULT REATMENT SOLUTIONS INC.         2,09.74.2         IRWD Check         Negotiable           427697         26 May-22         SVARGO-WWT, INC.         2,09.63.31         <  |              | -            |   |                |            |            |
| 427685         26-May-22         SHAMROCK SUPPLY CO INC         455.2         IRWD Check         Negotiable           427686         26-May-22         SI TESTING         4,580.00         IRWD Check         Regotiable           427687         26-May-22         SI TESTING         641.67         IRWD Check         Regotiable           427688         26-May-22         SNAP-ON INCORPORATED         82.71         IRWD Check         Regoniable           427689         26-May-22         SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT         1,294.92         IRWD Check         Regoniable           427691         26-May-22         SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT         1,294.92         IRWD Check         Negotiable           427691         26-May-22         SOUTHERN CALIFORNIA EDISON COMPANY         429.450.09         IRWD Check         Negotiable           427693         26-May-22         SULTERN CALIFORNIA EDISON COMPANY         2,29.07         IRWD Check         Negotiable           427695         26-May-22         SULTERN CALIFORNIA GAS COMPANY         2,29.97         IRWD Check         Negotiable           427696         26-May-22         SULTERN CALIFORNIA GAS COMPANY         2,29.97         IRWD Check         Negotiable           427697         26-May-22         SULTER  |              | -            |   |                |            |            |
| 42768726-May-22SITMATIC641.67IRWD CheckReconciled42768826-May-22SNAP-ON INCORPORATED82.71IRWD CheckNegotiable42768026-May-22SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT1,294.92IRWD CheckReconciled42769026-May-22SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT1,294.92IRWD CheckNegotiable42769126-May-22SOUTHERN CALIFORNIA EDISON COMPANY429,450.09IRWD CheckNegotiable42769326-May-22SOUTHERN CALIFORNIA EDISON COMPANY8.441IRWD CheckNegotiable42769426-May-22SOUTHERN CALIFORNIA GAS COMPANY2,299.70IRWD CheckNegotiable42769526-May-22SULTERT CAUFORNIA GAS COMPANY2,299.74IRWD CheckNegotiable42769626-May-22SULTE ATAMENT SOLUTIONS INC.2,997.42IRWD CheckNegotiable42769626-May-22SUKAGO-WWT, INC.2,997.42IRWD CheckNegotiable42769926-May-22TEKDRAULICS1,733.22IRWD CheckNegotiable42769926-May-22TEKDRAULICS21,482.80IRWD CheckNegotiable42770126-May-22TEKDRAULICS21,482.80IRWD CheckNegotiable42770226-May-22TEKDRAULICS21,482.80IRWD CheckNegotiable42770326-May-22TEKDRAULICS24,270.00IRWD CheckNegotiable42770426-May-22TEKDRAULICS24,270.00IRWD CheckNegotiable<   |              | -            |   |                |            | -          |
| 42768826-May-22SNAP-ON INCORPORATED82.71IRWD CheckNegotiable42768926-May-22SONG, WANYU50IRWD CheckReconciled42769026-May-22SOUTHERN CALIFORNIA EDISON COMPANY429,450.09IRWD CheckNegotiable42769226-May-22SOUTHERN CALIFORNIA EDISON COMPANY84.41IRWD CheckNegotiable42769226-May-22SOUTHERN CALIFORNIA EDISON COMPANY84.41IRWD CheckNegotiable42769326-May-22SOUTHERN CALIFORNIA CAS COMPANY84.41IRWD CheckNegotiable42769426-May-22SUET TREATMENT SOLUTIONS INC.2,290.70IRWD CheckNegotiable42769526-May-22SUEL TREATMENT SOLUTIONS INC.2,997.42IRWD CheckNegotiable42769626-May-22SUEL ADVERTISING INC.229,698.39IRWD CheckNegotiable42769726-May-22STENADULCS1,733.22IRWD CheckNegotiable42769826-May-22TEKDAULCS3,312.02IRWD CheckNegotiable42769926-May-22TEKDAULCS3,312.02IRWD CheckNegotiable42770026-May-22TEKDAULCS3,312.02IRWD CheckNegotiable42770126-May-22TEKDA BUSINESS SOLUTIONS, INC.2,427.00IRWD CheckNegotiable42770326-May-22THE ADV SECURITY CORPORATION2,427.00IRWD CheckNegotiable42770526-May-22THE ORAC AT IRVINE SPECTRUM84.49IRWD CheckNegotiable <td>427686</td> <td>26-May-22</td> <td>SI TESTING</td> <td>4,580.00</td> <td>IRWD Check</td> <td>Negotiable</td>  | 427686       | 26-May-22    | SI TESTING                                  | 4,580.00       | IRWD Check | Negotiable |
| 42768926-May-22SONG, WANYU50IRWD CheckReconciled42769026-May-22SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT1,294,92IRWD CheckReconciled42769126-May-22SOUTH ENN CALIFORNIA EDISON COMPANY42,94,50.09IRWD CheckNegotiable42769226-May-22SOUTHERN CALIFORNIA EDISON COMPANY84.41IRWD CheckNegotiable42769326-May-22SOUTHERN CALIFORNIA GAS COMPANY2,229,07IRWD CheckNegotiable42769426-May-22STANTEC CONSULTING SERVICES INC.1,7,087,90IRWD CheckNegotiable42769526-May-22SUKE ADVERTISING INC.2,997,42IRWD CheckNegotiable42769626-May-22SYNAGRO-WWT, INC.229,698.39IRWD CheckNegotiable42769726-May-22SYNAGRO-WWT, INC.1,733.22IRWD CheckNegotiable42769826-May-22TEKDRAULICS1,733.22IRWD CheckNegotiable42769926-May-22TEKDRAULICS1,733.22IRWD CheckNegotiable42770026-May-22TEKDRAULICS1,733.22IRWD CheckNegotiable42770126-May-22TEKDRAULICS1,733.24IRWD CheckNegotiable42770226-May-22TEKDRAULICS21,482.00IRWD CheckNegotiable42770326-May-22THE AT ECH, INC24,270.00IRWD CheckNegotiable42770426-May-22THE AT ECH INPS NC9,878.41IRWD CheckNegotiable42770   | 427687       | 26-May-22    | SITMATIC                                    | 641.67         | IRWD Check | Reconciled |
| 42769026-May-22SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT1,294.92IRWD CheckReconciled42769126-May-22SOUTHERN CALIFORNIA EDISON COMPANY429,450.09IRWD CheckNegotiable42769326-May-22SOUTHERN CALIFORNIA EDISON COMPANY84.41IRWD CheckNegotiable42769426-May-22SOUTHERN CALIFORNIA EDISON COMPANY2,291.07IRWD CheckNegotiable42769426-May-22SOUTHERN CALIFORNIA EDISON COMPANY2,291.07IRWD CheckNegotiable42769526-May-22SUET REATMENT SOLUTIONS INC.40,021.25IRWD CheckReconciled42769626-May-22SUKLE ADVERTISING INC.40,021.25IRWD CheckNegotiable42769726-May-22STNAGRO-WWT, INC.40,021.25IRWD CheckNegotiable42769826-May-22TEKDRAULICS1,733.32IRWD CheckNegotiable42770926-May-22TEKDRAULICS1,733.32IRWD CheckNegotiable42770026-May-22TEVGRA BUSINESS SOLUTIONS, INC.21,482.80IRWD CheckNegotiable42770126-May-22THE ADT SECURITY CORPORATION21,482.80IRWD CheckNegotiable42770326-May-22THE ADT SECURITY CORPORATION24,270.00IRWD CheckNegotiable42770326-May-22THE ADT SECURITY CORPORATION24,270.00IRWD CheckNegotiable42770526-May-22THE ADT SECURITY CORPORATION24,270.00IRWD CheckNegotiable42770526-May-   | 427688       | 26-May-22    | SNAP-ON INCORPORATED                        | 82.71          | IRWD Check | Negotiable |
| 42769126-May-22SOUTHERN CALIFORNIA EDISON COMPANY429,450.09IRWD CheckNegotiable42769226-May-22SOUTHERN CALIFORNIA EDISON COMPANY8.4.41IRWD CheckNegotiable42769326-May-22SOUTHERN CALIFORNIA GAS COMPANY2,229.07IRWD CheckNegotiable42769426-May-22SOUTHERN CALIFORNIA GAS COMPANY2,29.07IRWD CheckNegotiable42769526-May-22SUEZ TREATMENT SOLUTIONS INC.17,087.90IRWD CheckReconciled42769626-May-22SUKLE ADVERTISING INC.2,997.42IRWD CheckNegotiable42769726-May-22SUKLE ADVERTISING INC.229,698.39IRWD CheckNegotiable42769826-May-22TEKDRAULICS1,733.22IRWD CheckNegotiable42769926-May-22TEKDRAULICS1,733.22IRWD CheckNegotiable42770126-May-22TEKDRAULICS1,733.22IRWD CheckNegotiable42770226-May-22TEVORA BUSINESS SOLUTIONS, INC.21,482.80IRWD CheckNegotiable42770326-May-22THE ADT SECURITY CORPORATION24,270.00IRWD CheckNegotiable42770426-May-22THE ADT SECURITY CORPORATION24,270.00IRWD CheckNegotiable42770526-May-22THE ADT SECURITY CORPORATION24,270.00IRWD CheckNegotiable42770526-May-22THE ADT SECURITY CORPORATION24,270.00IRWD CheckNegotiable42770526-May-22THE ADT SECURITY CORP  | 427689       | 26-May-22    | SONG, WANYU                                 | 50             | IRWD Check | Reconciled |
| 42769226-May-22SOUTHERN CALIFORNIA EDISON COMPANY84.41IRWD CheckNegotiable42769326-May-22SOUTHERN CALIFORNIA GAS COMPANY2,229.07IRWD CheckNegotiable42769426-May-22STATTEC CONSULTING SERVICES INC.17,087.90IRWD CheckReconciled42769526-May-22SUEZ TREATMENT SOLUTIONS INC.2,997.42IRWD CheckReconciled42769626-May-22SUKLE ADVERTISING INC.40,021.25IRWD CheckNegotiable42769726-May-22SYNAGRO-WWT, INC.229,698.39IRWD CheckNegotiable42769826-May-22TESLA MOTORS INCORPORATED3,312.02IRWD CheckNegotiable42770926-May-22TESLA MOTORS INCORPORATED3,312.02IRWD CheckNegotiable42770026-May-22TEVORA BUSINESS SOLUTIONS, INC.21,482.80IRWD CheckNegotiable42770226-May-22THE ADT SECURITY CORPORATION24,270.00IRWD CheckNegotiable42770326-May-22THE PARK AT IRVINE SPECTRUM84.49IRWD CheckNegotiable42770426-May-22THE PARK AT IRVINE SPECTRUM9,878.74IRWD CheckNegotiable42770526-May-22TIC-RESORT PROPERTIES26.56IRWD CheckNegotiable42770726-May-22TIC-RESORT PROPERTIES50.55IRWD CheckNegotiable42770726-May-22TIC-RESORT PROPERTIES50.55IRWD CheckNegotiable42770726-May-22TIC-RESORT PROPERTIES <td>427690</td> <td>26-May-22</td> <td>SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT</td> <td>1,294.92</td> <td>IRWD Check</td> <td>Reconciled</td>  | 427690       | 26-May-22    | SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT | 1,294.92       | IRWD Check | Reconciled |
| 42769326-May-22SOUTHERN CALIFORNIA GAS COMPANY2,229.07IRWD CheckNegotiable42769426-May-22STANTEC CONSULTING SERVICES INC.17,087.90IRWD CheckReconciled42769526-May-22SUEZ TREATMENT SOLUTIONS INC.2,997.42IRWD CheckReconciled42769626-May-22SUKLE ADVERTISING INC.40,021.25IRWD CheckNegotiable42769726-May-22SYNAGRO-WWT, INC.229,698.39IRWD CheckNegotiable42769826-May-22TEKDRAULICS1,733.22IRWD CheckNegotiable42769926-May-22TEKDRAULICS3,312.02IRWD CheckNegotiable42770026-May-22TEKDRAULICS3,312.02IRWD CheckNegotiable42770126-May-22TEVORA BUSINESS SOLUTIONS, INC.21,482.80IRWD CheckNegotiable42770326-May-22THE ADT SECURITY CORPORATION24,270.00IRWD CheckNegotiable42770426-May-22THE ORPORATION24,270.00IRWD CheckNegotiable42770526-May-22THE ORPERTIES242.67IRWD CheckNegotiable42770526-May-22TIC-OFFICE PROPERTIES50.25IRWD CheckNegotiable42770726-May-22TIC-RESORT PROPERTIES50.25IRWD CheckNegotiable42770426-May-22TIC-RETAIL PROPERTIES50.25IRWD CheckNegotiable42770526-May-22TIC-RETAIL PROPERTIES50.25IRWD CheckNegotiable427706<   |              | 26-May-22    | SOUTHERN CALIFORNIA EDISON COMPANY          | 429,450.09     | IRWD Check | Negotiable |
| 42769426-May-22STANTEC CONSULTING SERVICES INC.17,087.90IRWD CheckReconciled42769526-May-22SUEZ TREATMENT SOLUTIONS INC.2,997.42IRWD CheckReconciled42769626-May-22SUKLE ADVERTISING INC.40,021.25IRWD CheckNegotiable42769726-May-22SYNAGRO-WWT, INC.229,688.39IRWD CheckNegotiable42769826-May-22TEKDRAULICS1,733.22IRWD CheckNegotiable42769926-May-22TEKDRAULICS1,733.22IRWD CheckNegotiable42770026-May-22TEVORA BUSINESS SOLUTIONS, INC.21,482.80IRWD CheckReconciled42770126-May-22THE ADT SECURITY CORPORATED21,482.80IRWD CheckNegotiable42770226-May-22THE ADT SECURITY CORPORATION24,270.00IRWD CheckNegotiable42770326-May-22THE ADT SECURITY CORPORATION24,270.00IRWD CheckNegotiable42770426-May-22THE ADT SECURITY CORPORATIES242.67IRWD CheckNegotiable42770526-May-22TIC-OFFICE PROPERTIES242.67IRWD CheckNegotiable42770726-May-22TIC-RESORT PROPERTIES56.69IRWD CheckNegotiable42770826-May-22TIC-RETAIL PROPERTIES502.5IRWD CheckNegotiable42770926-May-22TIC-RETAIL PROPERTIES268.11IRWD CheckNegotiable42771026-May-22TIC-RETAIL PROPERTIES268.11IRWD Check <td< td=""><td></td><td>-</td><td></td><td></td><td></td><td>-</td></td<>  |              | -            |   |                |            | -          |
| 42769526-May-22SUEZ TREATMENT SOLUTIONS INC.2,997.42IRWD CheckReconciled42769626-May-22SUKLE ADVERTISING INC.40,021.25IRWD CheckNegotiable42769726-May-22SYNAGRO-WWT, INC.229,698.39IRWD CheckNegotiable42769826-May-22TEKDRAULICS1,733.22IRWD CheckNegotiable42769926-May-22TESLA MOTORS INCORPORATED3,312.02IRWD CheckNegotiable42770026-May-22TESLA MOTORS INCORPORATED3,312.02IRWD CheckNegotiable42770126-May-22TEVORA BUSINESS SOLUTIONS, INC.21,482.80IRWD CheckNegotiable42770226-May-22THE ADT SECURITY CORPORATION24,270.00IRWD CheckNegotiable42770326-May-22THE DARK AT IRVINE SPECTRUM84.49IRWD CheckNegotiable42770426-May-22TIC-OFFICE PROPERTIES242.67IRWD CheckNegotiable42770526-May-22TIC-OFFICE PROPERTIES242.67IRWD CheckNegotiable42770626-May-22TIC-RESORT PROPERTIES242.67IRWD CheckNegotiable42770726-May-22TIC-RESORT PROPERTIES56.69IRWD CheckNegotiable42770926-May-22TIC-RESORT PROPERTIES50.25IRWD CheckNegotiable42770926-May-22TIC-RESORT PROPERTIES3,293.75IRWD CheckNegotiable42770926-May-22TIC-RESORT PROPERTIES35.26IRWD CheckNegotiable <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>-</td>  |              | -            |   |                |            | -          |
| 42769626-May-22SUKLE ADVERTISING INC.40,021.25IRWD CheckNegotiable42769726-May-22SYNAGRO-WWT, INC.229,698.39IRWD CheckNegotiable42769826-May-22TEKDRAULICS1,733.22IRWD CheckNegotiable42769926-May-22TESLA MOTORS INCORPORATED3,312.02IRWD CheckNegotiable42770026-May-22TERA TECH, INC4,628.00IRWD CheckNegotiable42770126-May-22TERA TECH, INC21,482.80IRWD CheckNegotiable42770226-May-22THE ADT SECURITY CORPORATION24,270.00IRWD CheckNegotiable42770326-May-22THE ADT SECURITY CORPORATION24,270.00IRWD CheckNegotiable42770426-May-22THOMPSON & PHIPPS INC9,878.74IRWD CheckNegotiable42770526-May-22TIC-OFFICE PROPERTIES242.67IRWD CheckNegotiable42770626-May-22TIC-RETAIL PROPERTIES242.67IRWD CheckNegotiable42770726-May-22TIC-RETAIL PROPERTIES256.69IRWD CheckNegotiable42770826-May-22TIC-RETAIL PROPERTIES252.5IRWD CheckNegotiable42771026-May-22TRAFFIC MANAGEMENT, INC1,554.00IRWD CheckNegotiable42771126-May-22TUSTIN TOYOTA352.6IRWD CheckNegotiable42771226-May-22TUSTIN TOYOTA352.6IRWD CheckNegotiable42771226-May-22<   |              | -            |   |                |            |            |
| 42769726-May-22SYNAGRO-WWT, INC.229,698.39IRWD CheckNegotiable42769826-May-22TEKDRAULICS1,733.22IRWD CheckNegotiable42769926-May-22TESLA MOTORS INCORPORATED3,312.02IRWD CheckNegotiable42770026-May-22TETRA TECH, INC4,628.00IRWD CheckReconciled42770126-May-22TEVORA BUSINESS SOLUTIONS, INC.21,482.80IRWD CheckNegotiable42770226-May-22THE ADT SECURITY CORPORATION24,270.00IRWD CheckNegotiable42770326-May-22THE ADT SECURITY CORPORATION24,270.00IRWD CheckNegotiable42770426-May-22THOMPSON & PHIPPS INC9,878.74IRWD CheckNegotiable42770526-May-22TIC-OFFICE PROPERTIES242.67IRWD CheckNegotiable42770626-May-22TIC-RESORT PROPERTIES50.25IRWD CheckNegotiable42770726-May-22TIC-RESORT PROPERTIES50.25IRWD CheckNegotiable42770826-May-22TIC-RESORT PROPERTIES50.25IRWD CheckNegotiable42771026-May-22TRAFFIC MANAGEMENT, INC1,554.00IRWD CheckNegotiable42771026-May-22TURTLE ROCK CANYON APTS26.81IRWD CheckNegotiable42771126-May-22TURTLE ROCK CANYON APTS26.81IRWD CheckNegotiable42771326-May-22UNITLE NOYOTA35.26IRWD CheckNegotiable427714<   |              | -            |   |                |            |            |
| 42769826-May-22TEKDRAULICS1,733.22IRWD CheckNegotiable42769926-May-22TESLA MOTORS INCORPORATED3,312.02IRWD CheckNegotiable42770026-May-22TETRA TECH, INC4,628.00IRWD CheckReconciled42770126-May-22TEVORA BUSINESS SOLUTIONS, INC.21,482.80IRWD CheckNegotiable42770226-May-22THE ADT SECURITY CORPORATION24,270.00IRWD CheckNegotiable42770326-May-22THE ADT SECURITY CORPORATION24,270.00IRWD CheckNegotiable42770426-May-22THE ADT SECURITY CORPORATION84.49IRWD CheckNegotiable42770526-May-22THOMPSON & PHIPPS INC9,878.74IRWD CheckNegotiable42770626-May-22TIC-OFFICE PROPERTIES242.67IRWD CheckNegotiable42770726-May-22TIC-RESORT PROPERTIES502.5IRWD CheckNegotiable42770926-May-22TIC-SPECTRUM OFFICE152.45IRWD CheckNegotiable42771026-May-22TRAFFIC MANAGEMENT, INC1,554.00IRWD CheckNegotiable42771126-May-22TURTLE ROCK CANYON APTS268.1IRWD CheckNegotiable42771326-May-22UCT, LLC314.9IRWD CheckReconciled42771426-May-22UNTEL PARCEL SERVICE INC36IRWD CheckReconciled42771426-May-22UNITED PARCEL SERVICE INC36IRWD CheckReconciled427715 </td <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>-</td>  |              | -            |   |                |            | -          |
| 42769926-May-22TESLA MOTORS INCORPORATED3,312.02IRWD CheckNegotiable42770026-May-22TETRA TECH, INC4,628.00IRWD CheckReconciled42770126-May-22TEVORA BUSINESS SOLUTIONS, INC.21,482.80IRWD CheckReconciled42770226-May-22THE ADT SECURITY CORPORATION24,270.00IRWD CheckNegotiable42770326-May-22THE ADT SECURITY CORPORATION24,270.00IRWD CheckNegotiable42770426-May-22THE PARK AT IRVINE SPECTRUM84.49IRWD CheckNegotiable42770526-May-22TIC-OFFICE PROPERTIES242.67IRWD CheckNegotiable42770626-May-22TIC-OFFICE PROPERTIES242.67IRWD CheckNegotiable42770726-May-22TIC-RESORT PROPERTIES56.69IRWD CheckNegotiable42770826-May-22TIC-RETAIL PROPERTIES502.5IRWD CheckNegotiable42770926-May-22TIC-RETAIL PROPERTIES502.5IRWD CheckNegotiable42771026-May-22TRAFFIC MANAGEMENT, INC1,554.00IRWD CheckNegotiable42771126-May-22TRAFFIC MANAGEMENT, INC3,293.75IRWD CheckNegotiable42771226-May-22TURLE ROCK CANYON APTS268.1IRWD CheckNegotiable42771326-May-22UCT, LLC314.9IRWD CheckNegotiable42771426-May-22UNITED PARCEL SERVICE INC36IRWD CheckNegotiable <td< td=""><td></td><td>-</td><td></td><td></td><td></td><td>-</td></td<>  |              | -            |   |                |            | -          |
| 42770026-May-22TETRA TECH, INC4,628.00IRWD CheckReconciled42770126-May-22TEVORA BUSINESS SOLUTIONS, INC.21,482.80IRWD CheckReconciled42770226-May-22THE ADT SECURITY CORPORATION24,270.00IRWD CheckNegotiable42770326-May-22THE PARK AT IRVINE SPECTRUM84.49IRWD CheckNegotiable42770426-May-22THOMPSON & PHIPPS INC9,878.74IRWD CheckNegotiable42770526-May-22TIC-OFFICE PROPERTIES242.67IRWD CheckNegotiable42770626-May-22TIC-RESORT PROPERTIES56.69IRWD CheckNegotiable42770726-May-22TIC-RETAIL PROPERTIES502.5IRWD CheckNegotiable42770926-May-22TIC-SPECTRUM OFFICE152.45IRWD CheckNegotiable42771026-May-22TRAFIC MANAGEMENT, INC3,293.75IRWD CheckNegotiable42771026-May-22TRIPAC MARKETING INC3,293.75IRWD CheckNegotiable42771126-May-22TURTLE ROCK CANYON APTS268.1IRWD CheckNegotiable42771326-May-22TUSTIN TOYOTA35.26IRWD CheckNegotiable42771426-May-22UUTIED PARCEL SERVICE INC36IRWD CheckNegotiable42771526-May-22UNITED SITE SERVICES OF CALIFORNIA INC739.95IRWD CheckReconciled  |              | •            |   |                |            | -          |
| 42770126-May-22TEVORA BUSINESS SOLUTIONS, INC.21,482.80IRWD CheckReconciled42770226-May-22THE ADT SECURITY CORPORATION24,270.00IRWD CheckNegotiable42770326-May-22THE PARK AT IRVINE SPECTRUM84.49IRWD CheckNegotiable42770426-May-22THOMPSON & PHIPPS INC9,878.74IRWD CheckNegotiable42770526-May-22TIC-OFFICE PROPERTIES242.67IRWD CheckNegotiable42770626-May-22TIC-RESORT PROPERTIES242.67IRWD CheckNegotiable42770726-May-22TIC-RETAIL PROPERTIES56.69IRWD CheckNegotiable42770826-May-22TIC-SPECTRUM OFFICE502.5IRWD CheckNegotiable42770926-May-22TIC-SPECTRUM OFFICE152.45IRWD CheckNegotiable42771026-May-22TRAFFIC MANAGEMENT, INC3,293.75IRWD CheckNegotiable42771026-May-22TRUC MARKETING INC3,293.75IRWD CheckNegotiable42771226-May-22TUSTIN TOYOTA268.1IRWD CheckReconciled42771326-May-22UCT, LLC314.9IRWD CheckNegotiable42771426-May-22UNITED PARCEL SERVICE INC36IRWD CheckNegotiable42771526-May-22UNITED SITE SERVICES OF CALIFORNIA INC739.95IRWD CheckReconciled  |              | -            |   |                |            |            |
| 42770226-May-22THE ADT SECURITY CORPORATION24,270.00IRWD CheckNegotiable42770326-May-22THE PARK AT IRVINE SPECTRUM84.49IRWD CheckNegotiable42770426-May-22THOMPSON & PHIPPS INC9,878.74IRWD CheckNegotiable42770526-May-22TIC-OFFICE PROPERTIES242.67IRWD CheckNegotiable42770626-May-22TIC-RESORT PROPERTIES242.67IRWD CheckNegotiable42770726-May-22TIC-RESORT PROPERTIES56.69IRWD CheckNegotiable42770826-May-22TIC-SPECTRUM OFFICE152.45IRWD CheckNegotiable42770926-May-22TRAFFIC MANAGEMENT, INC1,554.00IRWD CheckNegotiable42771026-May-22TRIPAC MARKETING INC3,293.75IRWD CheckNegotiable42771226-May-22TUSTIN TOYOTA35.26IRWD CheckNegotiable42771326-May-22UCT, LLC314.9IRWD CheckReconciled42771426-May-22UNITED PARCEL SERVICE INC36IRWD CheckNegotiable42771526-May-22UNITED PARCEL SERVICE SOF CALIFORNIA INC739.95IRWD CheckReconciled  |              | -            |   |                |            |            |
| 42770326-May-22THE PARK AT IRVINE SPECTRUM84.49IRWD CheckNegotiable42770426-May-22THOMPSON & PHIPPS INC9,878.74IRWD CheckNegotiable42770526-May-22TIC-OFFICE PROPERTIES242.67IRWD CheckNegotiable42770626-May-22TIC-RESORT PROPERTIES56.69IRWD CheckNegotiable42770726-May-22TIC-RETAIL PROPERTIES502.5IRWD CheckNegotiable42770826-May-22TIC-SPECTRUM OFFICE502.5IRWD CheckNegotiable42770926-May-22TRAFFIC MANAGEMENT, INC1,554.00IRWD CheckNegotiable42771026-May-22TRIPAC MARKETING INC3,293.75IRWD CheckNegotiable42771226-May-22TURTLE ROCK CANYON APTS268.1IRWD CheckNegotiable42771326-May-22UCT, LLC314.9IRWD CheckReconciled42771426-May-22UNITED PARCEL SERVICE INC36IRWD CheckNegotiable42771526-May-22UNITED SITE SERVICE SOF CALIFORNIA INC36IRWD CheckReconciled  |              | -            | · ·   |                |            |            |
| 42770426-May-22THOMPSON & PHIPPS INC9,878.74IRWD CheckNegotiable42770526-May-22TIC-OFFICE PROPERTIES242.67IRWD CheckNegotiable42770626-May-22TIC-RESORT PROPERTIES56.69IRWD CheckNegotiable42770726-May-22TIC-RETAIL PROPERTIES502.5IRWD CheckNegotiable42770826-May-22TIC-SPECTRUM OFFICE152.45IRWD CheckNegotiable42770926-May-22TRAFFIC MANAGEMENT, INC1,554.00IRWD CheckNegotiable42771026-May-22TRIPAC MARKETING INC3,293.75IRWD CheckNegotiable42771126-May-22TURTLE ROCK CANYON APTS268.1IRWD CheckNegotiable42771326-May-22TUSTIN TOYOTA35.26IRWD CheckReconciled42771426-May-22UCT, LLC314.9IRWD CheckNegotiable42771526-May-22UNITED PARCEL SERVICE INC36IRWD CheckNegotiable42771526-May-22UNITED SITE SERVICES OF CALIFORNIA INC739.95IRWD CheckReconciled   |              | -            |   |                |            | -          |
| 42770526-May-22TIC-OFFICE PROPERTIES242.67IRWD CheckNegotiable42770626-May-22TIC-RESORT PROPERTIES56.69IRWD CheckNegotiable42770726-May-22TIC-RETAIL PROPERTIES502.5IRWD CheckNegotiable42770826-May-22TIC-SPECTRUM OFFICE152.45IRWD CheckNegotiable42770926-May-22TRAFFIC MANAGEMENT, INC1,554.00IRWD CheckNegotiable42771026-May-22TRIPAC MARKETING INC3,293.75IRWD CheckNegotiable42771126-May-22TURTLE ROCK CANYON APTS268.1IRWD CheckNegotiable42771226-May-22TUSTIN TOYOTA35.26IRWD CheckReconciled42771326-May-22UCT, LLC314.9IRWD CheckReconciled42771426-May-22UNITED PARCEL SERVICE INC36IRWD CheckNegotiable42771526-May-22UNITED SITE SERVICES OF CALIFORNIA INC739.95IRWD CheckReconciled   |              | -            |   |                |            | -          |
| 42770626-May-22TIC-RESORT PROPERTIES56.69IRWD CheckNegotiable42770726-May-22TIC-RETAIL PROPERTIES502.5IRWD CheckNegotiable42770826-May-22TIC-SPECTRUM OFFICE152.45IRWD CheckNegotiable42770926-May-22TRAFFIC MANAGEMENT, INC1,554.00IRWD CheckNegotiable42771026-May-22TRIPAC MARKETING INC3,293.75IRWD CheckNegotiable42771126-May-22TURTLE ROCK CANYON APTS268.1IRWD CheckNegotiable42771226-May-22TUSTIN TOYOTA35.26IRWD CheckReconciled42771326-May-22UCT, LLC314.9IRWD CheckReconciled42771426-May-22UNITED PARCEL SERVICE INC36IRWD CheckNegotiable42771526-May-22UNITED SITE SERVICES OF CALIFORNIA INC739.95IRWD CheckReconciled   |              | -            |   |                |            | -          |
| 42770726-May-22TIC-RETAIL PROPERTIES502.5IRWD CheckNegotiable42770826-May-22TIC-SPECTRUM OFFICE152.45IRWD CheckNegotiable42770926-May-22TRAFFIC MANAGEMENT, INC1,554.00IRWD CheckNegotiable42771026-May-22TRIPAC MARKETING INC3,293.75IRWD CheckReconciled42771226-May-22TURTLE ROCK CANYON APTS268.1IRWD CheckNegotiable42771326-May-22TUSTIN TOYOTA35.26IRWD CheckReconciled42771426-May-22UCT, LLC314.9IRWD CheckReconciled42771526-May-22UNITED PARCEL SERVICE INC36IRWD CheckReconciled42771526-May-22UNITED SITE SERVICES OF CALIFORNIA INC739.95IRWD CheckReconciled  |              | -            |   |                |            | -          |
| 42770826-May-22TIC-SPECTRUM OFFICE152.45IRWD CheckNegotiable42770926-May-22TRAFFIC MANAGEMENT, INC1,554.00IRWD CheckNegotiable42771026-May-22TRIPAC MARKETING INC3,293.75IRWD CheckReconciled42771126-May-22TURTLE ROCK CANYON APTS268.1IRWD CheckNegotiable42771226-May-22TUSTIN TOYOTA35.26IRWD CheckReconciled42771326-May-22UCT, LLC314.9IRWD CheckReconciled42771426-May-22UNITED PARCEL SERVICE INC36IRWD CheckNegotiable42771526-May-22UNITED SITE SERVICES OF CALIFORNIA INC739.95IRWD CheckReconciled   |              | -            |   |                |            | -          |
| 42770926-May-22TRAFFIC MANAGEMENT, INC1,554.00IRWD CheckNegotiable42771026-May-22TRIPAC MARKETING INC3,293.75IRWD CheckReconciled42771126-May-22TURTLE ROCK CANYON APTS268.1IRWD CheckNegotiable42771226-May-22TUSTIN TOYOTA35.26IRWD CheckReconciled42771326-May-22UCT, LLC314.9IRWD CheckReconciled42771426-May-22UNITED PARCEL SERVICE INC36IRWD CheckNegotiable42771526-May-22UNITED SITE SERVICES OF CALIFORNIA INC739.95IRWD CheckReconciled   |              | -            |   |                |            | -          |
| 42771126-May-22TURTLE ROCK CANYON APTS268.1IRWD CheckNegotiable42771226-May-22TUSTIN TOYOTA35.26IRWD CheckReconciled42771326-May-22UCT, LLC314.9IRWD CheckReconciled42771426-May-22UNITED PARCEL SERVICE INC36IRWD CheckNegotiable42771526-May-22UNITED SITE SERVICES OF CALIFORNIA INC739.95IRWD CheckReconciled  | 427709       | -            | TRAFFIC MANAGEMENT, INC                     |                | IRWD Check | -          |
| 42771126-May-22TURTLE ROCK CANYON APTS268.1IRWD CheckNegotiable42771226-May-22TUSTIN TOYOTA35.26IRWD CheckReconciled42771326-May-22UCT, LLC314.9IRWD CheckReconciled42771426-May-22UNITED PARCEL SERVICE INC36IRWD CheckNegotiable42771526-May-22UNITED SITE SERVICES OF CALIFORNIA INC739.95IRWD CheckReconciled  |              | -            |   |                | IRWD Check | -          |
| 42771326-May-22UCT, LLC314.9IRWD CheckReconciled42771426-May-22UNITED PARCEL SERVICE INC36IRWD CheckNegotiable42771526-May-22UNITED SITE SERVICES OF CALIFORNIA INC739.95IRWD CheckReconciled42771626-May-22UNITED SITE SERVICES OF CALIFORNIA INC739.95IRWD CheckReconciled   | 427711       | 26-May-22    | TURTLE ROCK CANYON APTS                     |                | IRWD Check | Negotiable |
| 42771426-May-22UNITED PARCEL SERVICE INC36IRWD CheckNegotiable42771526-May-22UNITED SITE SERVICES OF CALIFORNIA INC739.95IRWD CheckReconciled42771526-May-22UNITED SITE SERVICES OF CALIFORNIA INC739.95IRWD CheckReconciled   |              | 26-May-22    |   |                |            |            |
| 427715 26-May-22 UNITED SITE SERVICES OF CALIFORNIA INC 739.95 IRWD Check Reconciled   |              | 26-May-22    |   |                |            |            |
|  |              | -            |   |                |            | -          |
| 427716 26-May-22 URBAN WATER INSTITUTE INC D - 12 1,250.00 IRWD Check Negotiable   |              | -            |   |                |            |            |
|  | 427716       | 26-May-22    | URBAN WATER INSTITUTE INC D - 12            | 1,250.00       | IRWD Check | Negotiable |

| CHECK OR       |                 |   |                | PAYMENT    |            |
|----------------|-----------------|---|----------------|------------|------------|
| ELECTRONIC #   | PAYMENT DATE    | SUPPLIERS                                       | PAYMENT AMOUNT | METHOD     | STATUS     |
| 427717         | 26-May-22       | VWR INTERNATIONAL, LLC                          | 9,312.98       | IRWD Check | Negotiable |
| 427718         | 26-May-22       | WAGENER LAW, A PROFESSIONAL CORPORATION         | 3,263.50       | IRWD Check | Reconciled |
| 427719         | 26-May-22       | WARD, WILLIAM P JR.                             | 1,369.04       | IRWD Check | Negotiable |
| 427720         | 26-May-22       | WARE MALCOMB                                    | 977.5          | IRWD Check | Reconciled |
| 427721         | 26-May-22       | WATER ASSOCIATION OF KERN COUNTY                | 500            | IRWD Check | Negotiable |
| 427722         | 26-May-22       | WATEREUSE ASSOCIATION                           | 6,000.00       | IRWD Check | Negotiable |
| 427723         | 26-May-22       | WAXIE'S ENTERPRISES, INC                        | 126.83         | IRWD Check | Reconciled |
| 427724         | 26-May-22       | WECK LABORATORIES INC                           | 1,050.00       | IRWD Check | Reconciled |
| 427725         | 26-May-22       | WEST COAST SAND & GRAVEL INC.                   | 2,294.81       | IRWD Check | Reconciled |
| 427726         | 26-May-22       | WESTERN WEATHER GROUP INC                       | 3,225.00       | IRWD Check | Reconciled |
| 427727         | 26-May-22       | WORKFORCE SAFETY LLC                            | 7,500.00       | IRWD Check | Negotiable |
| 427728         | 26-May-22       | IRWD-PETTY CASH CUSTODIAN                       | 753.96         | IRWD Check | Reconciled |
| SUB-TOTAL CHEC | CK DISBURSEMEN  | TS  | 9,642,732.00   |            |            |
| 14906          | 5-May-22        | CHARD SNYDER & ASSOCIATES, INC.                 | 16,119.05      | IRWD Wire  | Negotiable |
| 14907          | 5-May-22        | CHARD SNYDER & ASSOCIATES, INC.                 | 4,045.42       | IRWD Wire  | Negotiable |
| 14908          | 5-May-22        | YORK RISK SERVICES GROUP, INC.                  | 2,142.27       | IRWD Wire  | Negotiable |
| 14909          | 6-May-22        | EMPOWER RETIREMENT, LLC                         | 178,395.01     | IRWD Wire  | Negotiable |
| 14910          | 6-May-22        | CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES | 3,049.00       | IRWD Wire  | Negotiable |
| 14911          | 6-May-22        | INTERNAL REVENUE SERVICE                        | 231,070.23     | IRWD Wire  | Negotiable |
| 14912          | 6-May-22        | FRANCHISE TAX BOARD                             | 72,810.87      | IRWD Wire  | Negotiable |
| 14913          | 6-May-22        | EMPLOYMENT DEVELOPMENT DEPARTMENT               | 17,894.61      | IRWD Wire  | Negotiable |
| 14914          | 6-May-22        | CALPERS   | 249,099.23     | IRWD Wire  | Negotiable |
| 14915          | 6-May-22        | CALPERS   | 3,537.54       | IRWD Wire  | Negotiable |
| 14916          | 6-May-22        | CALPERS   | 589,682.42     | IRWD Wire  | Negotiable |
| 14917          | 9-May-22        | CHARD SNYDER & ASSOCIATES, INC.                 | 3,342.15       | IRWD Wire  | Negotiable |
| 14918          | 9-May-22        | CHARD SNYDER & ASSOCIATES, INC.                 | 3,397.78       | IRWD Wire  | Negotiable |
| 14919          | 10-May-22       | YORK RISK SERVICES GROUP, INC.                  | 10,708.74      | IRWD Wire  | Negotiable |
| 14921          | 16-May-22       | CHARD SNYDER & ASSOCIATES, INC.                 | 1,474.95       | IRWD Wire  | Negotiable |
| 14922          | 16-May-22       | BANK OF NEW YORK MELLON TRUST COMPANY NA        | 32,055.70      | IRWD Wire  | Negotiable |
| 14923          | 16-May-22       | BANK OF AMERICA                                 | 8,178.09       | IRWD Wire  | Negotiable |
| 14924          | 16-May-22       | U.S. BANK NATIONAL ASSOCIATION                  | 10,849.31      | IRWD Wire  | Negotiable |
| 14925          | 16-May-22       | U.S. BANK NATIONAL ASSOCIATION                  | 4,284.94       | IRWD Wire  | Negotiable |
| 14926          | ,<br>16-May-22  | SUMITOMO MITSUI BANKING CORPORATION             | 14,961.65      | IRWD Wire  | Negotiable |
| 14927          | 16-May-22       | CALPERS   | 1,392.07       | IRWD Wire  | Negotiable |
| 14928          | ,<br>17-May-22  | CHARD SNYDER & ASSOCIATES, INC.                 | 4,524.43       | IRWD Wire  | Negotiable |
| 14929          | 17-May-22       | CHARD SNYDER & ASSOCIATES, INC.                 | 5,358.07       | IRWD Wire  | Negotiable |
| 14930          | 17-May-22       | YORK RISK SERVICES GROUP, INC.                  | 5,914.84       | IRWD Wire  | Negotiable |
| 14931          | 17-May-22       | MUNICIPAL WATER DISTRICT OF ORANGE COUNTY       | 1,465,158.97   | IRWD Wire  | Negotiable |
| 14933          | 23-May-22       | CHARD SNYDER & ASSOCIATES, INC.                 | 2,840.53       | IRWD Wire  | Negotiable |
| 14934          | 23-May-22       | CHARD SNYDER & ASSOCIATES, INC.                 | 2,438.54       | IRWD Wire  | Negotiable |
| 14935          | 24-May-22       | EMPOWER RETIREMENT, LLC                         | 198,819.00     | IRWD Wire  | Negotiable |
| 14936          | ,<br>24-May-22  | CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES | 3,049.00       | IRWD Wire  | Negotiable |
| 14937          | 24-May-22       | INTERNAL REVENUE SERVICE                        | 240,651.28     | IRWD Wire  | Negotiable |
| 14938          | ,<br>24-May-22  | FRANCHISE TAX BOARD                             | 74,594.20      | IRWD Wire  | Negotiable |
| 14939          | 24-May-22       | EMPLOYMENT DEVELOPMENT DEPARTMENT               | 18,138.14      | IRWD Wire  | Negotiable |
| 14940          | 26-May-22       | WELLS FARGO BANK, N.A.                          | 5,504.08       | IRWD Wire  | Negotiable |
| 14941          | 31-May-22       | CALPERS   | 249,755.33     | IRWD Wire  | Negotiable |
| 14942          | 31-May-22       | CHARD SNYDER & ASSOCIATES, INC.                 | 9,322.10       | IRWD Wire  | Negotiable |
| 14943          | 31-May-22       | CHARD SNYDER & ASSOCIATES, INC.                 | 2,870.71       | IRWD Wire  | Negotiable |
| 14944          | 31-May-22       | YORK RISK SERVICES GROUP, INC.                  | 4,162.91       | IRWD Wire  | Negotiable |
| 14945          | 31-May-22       | YORK RISK SERVICES GROUP, INC.                  | 8,975.17       | IRWD Wire  | Negotiable |
| -              | TRONIC DISBURSE |   | 3,760,568.33   |            |            |

| -TOTAL AP ( | CHECK AND ELECT | RONIC DISBURSEMENTS                             | 13,403,300.33 |            |        |
|-------------|-----------------|---|---------------|------------|--------|
| 427027      | 5-May-22        | LEE, CHUNHUI                                    | 17.36         | IRWD Check | Voideo |
| 427120      | 5-May-22        | SHAVER JR, LEWIS                                | 52.48         | IRWD Check | Voideo |
| 427136      | 5-May-22        | TACTICAL PROPERTY HOLDINGS LLC                  | 1,811.49      | IRWD Check | Voideo |
| 427180      | 12-May-22       | ACTION WHOLESALE PRODUCTS, INC.                 | 775.48        | IRWD Check | Voideo |
| 427273      | 12-May-22       | LIDO PROPERTY MANAGEMENT                        | 15.56         | IRWD Check | Voideo |
| 427389      | 19-May-22       | AT&T  | 6,594.94      | IRWD Check | Voideo |
| 427534      | 24-May-22       | PETRUSSE-NORRIS PAINTING, INC.                  | 10,582.00     | IRWD Check | Voideo |
| 14920       | 12-May-22       | WELLS FARGO BANK, N.A.                          | 5,508.12      | IRWD Wire  | Voide  |
| 14932       | 20-May-22       | CALPERS   | 248,935.40    | IRWD Wire  | Voide  |
| B-TOTAL CHE | CK AND ELECTRO  | NIC DISBURSEMENTS ISSUED AND VOIDED IN MAY 2022 | 274,292.83    |            |        |

TOTAL AP DISBURSEMENTS AND VOIDS FOR MAY 2022

<sup>13,677,593.16</sup> 

Exhibit "E"

## MONTHLY SUMMARY OF PAYROLL ACH PAYMENTS

May 2022

|                       | AMOUNT  | VENDOR                             | PURPOSE  |
|-----------------------|---|------------------------------------|--|
| 5/6/2022<br>5/20/2022 | 1,076,097.24<br>1,076,854.90<br><b>\$2,152,952.14</b> | BANK OF AMERICA<br>BANK OF AMERICA | ACH Payments for Payroll<br>ACH Payments for Payroll |

# 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-MAY-22 to 31-MAY-22

| NAME              | CHECK NO> | CHECK DATE   | AMOUNT       | ITEM DESCRIPTION      | EXPENSE JUSTIFICATION   |
|-------------------|-----------|--------------|--------------|-----------------------|---|
| Lin, Eileen       | 426894    | 5-May-22     | 435.00       | Membership Renewal    | CalCPA Membership   |
| Lin, Eileen       | 426894    | 5-May-22     | 1,385.00     | Certification Renewal | CalCPA - CPE class credits  |
| Lindsay, Marina D | 427174    | 12-May-22    | 253.89       | Mileage               | Sustainable Water Markets Network Kern River Conf., Bakersfield, CA - May 6-8, 2022 |
| Moeder, Jacob     | 426895    | 5-May-22     | 180.00       | Certification Renewal | Professional Engineers, Land Surveyors, and Geologist - Civil Engineer renewal      |
| Mori, Richard     | 427175    | 12-May-22    | 180.00       | Certification Renewal | Professional Engineers, Land Surveyors, and Geologist - Civil Engineer renewal      |
|                   |           | Total Amount | : \$2,433.89 |                       |   |

June 27, 2022 Prepared by: N. Mwe / R. Mori Submitted by: K. Burton Approved by: Paul A. Cook

### CONSENT CALENDAR

### SEAWATCH RECYCLED WATER PRESSURE REDUCING STATION CONSTRUCTION AWARD

### SUMMARY:

The Seawatch Recycled Water Zone G to G\_R Pressure Reducing Station project includes construction of a new below grade pressure reducing station. Staff recommends the Board:

- Reject the bid of GCI Construction, Inc. as non-responsive, and
- Authorize the General Manager to execute a construction contract with T.E. Roberts, Inc. in the amount of \$383,155 for the Seawatch Recycled Water Zone G to G\_R Pressure Reducing Station project.

### BACKGROUND:

IRWD operates a 10-inch Zone G recycled water pipeline located in a fire access road between the streets of Seawatch and Coral Cay in Crystal Cove. The access road drops approximately 200 feet in elevation, which contributes to the development of high-pressure surges in the pipeline. Over the years, the surges have led to several pipe failures along this segment of pipe. In 2020, staff contracted with JIG Consultants to complete a study to further evaluate and understand the pressure surges and to ultimately develop a design solution. Per the recommendations provided by JIG, a new recycled water Zone G to G\_R pressure reducing station is needed near Seawatch, which is located on the high elevation side of the fire access road. The project will construct a new pressure reducing station that will eliminate high pressure surges in the pipeline to mitigate against future pipeline failures. The project location is shown in Exhibit "A".

### Construction Award:

IRWD retained JIG Consultants to design the pressure reducing station in November 2020. Staff approved the plans and advertised the project for construction bids to a select list of 36 pipeline and mechanical contractors in May 2022. The bid opening was held on June 14, 2022 with bids received from GCI Construction, T.E. Roberts, SS Mechanical Construction, Paulus Engineering, and Ferreira Construction Co. GCI Construction was the apparent low bidder with a bid amount of \$297,900. A summary of the five bids received is provided in the following table. Consent Calendar: Seawatch Recycled Water Pressure Reducing Station Construction Award June 27, 2022 Page 2

| Bidder                     | Bid Amount |
|----------------------------|------------|
| GCI Construction           | \$ 297,900 |
| T.E. Roberts               | \$ 383,155 |
| SS Mechanical Construction | \$ 391,633 |
| Paulus Engineering         | \$ 399,500 |
| Ferreira Construction Co.  | \$ 452,600 |
| Engineer's Estimate        | \$ 450,000 |

After review by staff and legal counsel, the apparent low bid from GCI Construction was determined to be non-responsive. GCI Construction failed to include the following required documents for the project in its bid submission: "Statements by Bidder", "Certification of Bidder and Qualifications", "Safety Program Certification", and "Non-Collusion Declaration". As such, staff and legal counsel recommend that the Board reject the bid of GCI Construction as non-responsive.

The next apparent low bidder, with a bid amount of \$383,155, is T.E. Roberts. Staff reviewed the bid from T.E. Roberts and determined that it is responsive. T.E. Roberts' bid information is attached as Exhibit "B". Staff recommends that the Board authorize the General Manager to award a construction contract to T.E. Roberts in the amount of \$383,155.

## FISCAL IMPACTS:

Project 11597 is included in the FY 2021-22 Capital Budget and will be funded by the regional recycled water funds. The existing budget is sufficient to fund the recommendation presented herein.

## ENVIRONMENTAL COMPLIANCE:

This project is exempt from the California Environmental Quality Act (CEQA) as authorized under the California Code of Regulations, Title 14, Chapter 3, Section 15303, which provides categorical exemption for small facilities or structures; installation of small new equipment and facilities in small structures; water main, sewage, electrical, gas and other utility extensions, including street improvements of reasonable length to serve such construction and Section 15282, which provides statutory exemption for installation of new pipeline that does not exceed one mile (more than 5,210 feet) in length. A Notice of Exemption was filed with the Orange County Clerk's office on November 16, 2021.

## COMMITTEE STATUS:

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

Consent Calendar: Seawatch Recycled Water Pressure Reducing Station Construction Award June 27, 2022 Page 3

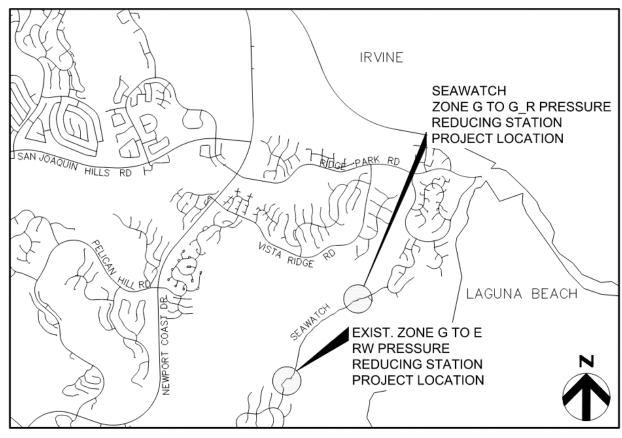
## **RECOMMENDATION:**

THAT THE BOARD REJECT THE BID OF GCI CONSTRUCTION, INC. AS NON-RESPONSIVE AND AUTHORIZE THE GENERAL MANAGER TO EXECUTE A CONSTRUCTION CONTRACT WITH T.E. ROBERTS, INC. IN THE AMOUNT OF \$383,155 FOR THE SEAWATCH RECYCLED WATER ZONE G TO G\_R PRESSURE REDUCING STATION, PROJECT 11597.

### LIST OF EXHIBITS:

Exhibit "A" – Location Map Exhibit "B" – Bid Results

## EXHIBIT "A"



VICINITY MAP



LOCATION MAP

# EXHIBIT "B"

# **Bid Results**

# **Bidder Details**

| Vendor Name     | T. E. Roberts, Inc.           |
|-----------------|-------------------------------|
| Address         | 306 W. Katella Avenue, Unit B |
|                 | Orange, California 92867      |
|                 | United States                 |
| Respondee       | Steve Miller                  |
| Respondee Title | Estimator                     |
| Phone           | 714-669-0072                  |
| Email           | estimating@teroberts.com      |
| Vendor Type     | CADIR                         |
| License #       | 603008                        |
| CADIR           | 100000280                     |

# **Bid Detail**

| Electronic               |
|--------------------------|
| 06/14/2022 1:11 PM (PDT) |
|                          |
|                          |
| Submitted                |
| 295300                   |
|                          |

# Respondee Comment

# Buyer Comment

# Attachments

| File Title                    |     |
|-------------------------------|-----|
| TER Bid IRWD Seawatch RW PRS. | pdf |

File Name TER Bid IRWD Seawatch RW PRS.pdf File Type Bid Form

# Subcontractors

## Showing 1 Subcontractor

| Name & Address   | Desc                       | License Num | CADIR      | Amount      | Туре  |
|--|----------------------------|-------------|------------|-------------|-------|
| <b>CMB Structures Inc.</b><br>7211 Haven Aveue, E-287<br>Alta Loma, California 91701 | Vault and concrete<br>work | 613977      | 1000001531 | \$33,980.00 | CADIR |

PlanetBids, Inc.

# Line Items

## Discount Terms No Discount

| ltem #   | Item Code                        | Туре | Item Description  | UOM | QTY | Unit Price   | Line Total   | Response | Comment |
|----------|----------------------------------|------|---|-----|-----|--------------|--------------|----------|---------|
| BASE BID | BASE BID ITEMS                   |      |   |     |     |              | \$383,155.00 |          |         |
| 1        |                                  |      | Mobilization and Demobilization                                       | LS  | 1   | \$20,804.00  | \$20,804.00  | Yes      |         |
| 2        |                                  |      | Miscellaneous Site Work and Piping                                    | LS  | 1   | \$111,435.00 | \$111,435.00 | Yes      |         |
| 3        |                                  |      | Trench Safety Measures  | LS  | 1   | \$2,601.00   | \$2,601.00   | Yes      |         |
| 4        |                                  |      | Seawatch Recycled Water Zone G to G_R Pressure Reducing Station       | LS  | 1   | \$233,083.00 | \$233,083.00 | Yes      |         |
| 5        |                                  |      | Miscellaneous Improvements at Existing Zone G to E Recycled Water PRV | LS  | 1   | \$14,419.00  | \$14,419.00  | Yes      |         |
| 6        |                                  |      | Final Record Drawings   | LS  | 1   | \$813.00     | \$813.00     | Yes      |         |
| ADDITIVE | ADDITIVE AND DEDUCTIVE BID ITEMS |      |   |     |     | \$0.00       |              |          |         |
| 7        |                                  |      | ADDITION (+) OR DEDUCTION (-)   | LS  | 1   | \$0.00       | \$0.00       | Yes      |         |

# Line Item Subtotals

| Section Title                    | Line Total   |
|----------------------------------|--------------|
| BASE BID ITEMS                   | \$383,155.00 |
| ADDITIVE AND DEDUCTIVE BID ITEMS | \$0.00       |
| Grand Total                      | \$383,155.00 |

# B - 2

PlanetBids, Inc.

June 27, 2022 Prepared by: M. Lu / M. Cortez Submitted by: K. Burton Approved by: Paul A. Cook

### ACTION CALENDAR

### SEWER SIPHON IMPROVEMENTS PHASE II CONSULTANT SELECTION

### SUMMARY:

IRWD's sewer system includes 19 inverted siphons in various locations. Earlier this year, IRWD completed the Sewer Siphon Improvements Phase I that rehabilitated the four highest priority siphons. Phase II will rehabilitate the next seven prioritized siphons. Staff recommends the Board authorize the General Manager to execute a Professional Services Agreement with Woodard & Curran in the amount of \$1,285,684 for engineering design services for the Sewer Siphon Improvements Phase II.

### BACKGROUND:

In 2016, IRWD completed a preliminary assessment of its 19 siphons and assigned a rehabilitation priority considering risk and likelihood of failure. The top four siphons were recently completed as part of Phase I. Phase II will rehabilitate the next seven siphons: S1, S3, S5, S8, S9, S16, and S18. Siphon S16 is located in the city of Newport Beach and the remaining six are located in the city of Irvine. General descriptions of the siphons are provided below.

- Siphon S1 San Diego Creek/University (constructed in 1966): This location consists of a three-barrel inverted siphon going under Sand Canyon Creek, along the bike trail between the San Diego Creek Channel and University Drive. The barrels are asbestos cement pipe (ACP) with diameters of 10, 15 and 18 inches. There is no air jumper at this location;
- Siphon S3 Michelson/Riparian (constructed in 1976): This location consists of a twobarrel inverted siphon going under San Diego Creek at Michelson Drive, near Riparian View. The barrels are vitrified clay pipe (VCP) with diameters of 24 and 36 inches. The siphon includes a 21-inch air jumper. The 21-inch air jumper is reinforced polymer mortar pipe (RPMP) per the as-built;
- Siphon S5 Jamboree/Main (constructed in 1972): This location consists of a two-barrel inverted siphon going under the Barranca Channel, along Jamboree Road near Main Street. The two barrels are 8-inch diameter VCP. The as-built drawings show two 8-inch VCP stubs – one at the upstream manhole, and the other at the downstream manhole;
- Siphon S8 Jeffrey/Alton (constructed in 1988): This location consists of a two-barrel inverted siphon going under San Diego Creek, along Jeffrey Road. The barrels are VCP with diameters of 15 and 21 inches. There is a 15-inch polyvinyl chloride (PVC) air jumper at this location;
- Siphon S9 Sand Canyon/Barranca (constructed in 1987): This location consists of a two-barrel inverted siphon going under the Barranca Channel, along Sand Canyon Avenue. The barrels are VCP with diameters of 8 and 12 inches. There is no air jumper at this location;

- 6. Siphon S16 University/Milano (constructed in 1998): This location consists of a twobarrel inverted siphon going under Bonita Creek, near SR-73. The two barrels are 16inch diameter VCP. There is no air jumper at this location; and
- Siphon S18 Harvard/University (constructed in 1978): This location consists of a twobarrel inverted siphon going under Sand Canyon Creek (culvert), along Harvard Avenue. The two barrels are 8-inch diameter VCP. There is no air jumper at this location.

The 2016 assessment noted issues of corrosion, lining failure, lack of flow control device, and site access inadequacy. The likelihood of failure for these seven siphons ranges from high to extreme.

It was recognized in Phase I that having a well-defined and thorough consultant scope of work that includes sewer cleaning and inspection would have helped better define the contractor scope of work and minimize the amount of change orders. Due to "lessons learned" from Phase I, the consultant scope of work for Phase II includes this additional sewer cleaning and inspection work as requested in the request for proposal, which accounts for approximately \$300,000 of the consultant scope of work. This type of cleaning and inspection is a specialized task that the District staff are not well-suited to perform.

An alternative to performing this work would be to include several alternative bid items in the contractor's bid schedule in the hope of addressing any issues that may potentially arise during construction. This method of bidding can result in unnecessary time wasted when the contractor needs to secure materials or equipment (e.g., for cured-in-place pipe) to address any construction issues not previously anticipated during design.

## Consultant Selection:

On April 27, 2022, staff issued a request for proposal for engineering design services for the project to four consultants: Psomas, Stantec, West Yost, and Woodard & Curran. Psomas and West Yost withdrew after receiving the request for proposal citing insufficient staff availability and experience. Proposals were received from the remaining two consultants on June 2. Staff completed its evaluation of the proposals and found the following merits in Woodard & Curran's proposal.

- Woodard & Curran's team has more experience overall with sewer systems, sewer siphons and condition assessment, which is relevant to this Phase II project;
- Woodard & Curran provided preliminary evaluations and implementable solutions to the Phase II siphons with greater details, such as flow control device improvements at Siphons S1 and S5, maintenance/access and odor control improvements at Siphon S9, and potential location of a grit trap at Siphon S3;
- As part of the lessons learned from Phase I, Woodard & Curran understands the importance of completing a condition assessment of the siphon barrels and Laser 3-dimensional scanning of the interiors of the existing upstream and downstream vaults. Woodard & Curran is providing a substantial effort in condition assessment of the siphons to determine the need for cured-in-place-pipe lining. The effort proposed matches what is required for this project, including dewatering, barrel cleaning,

dewatering and closed-circuit-tv inspection. Secondly, accurate measurements of the interior of the vaults are required to minimize additional cost claims from the contractor due to encountering field conditions that differ from record drawing information; and

• Woodard & Curran was the design consultant in Phase I and is thus familiar with the IRWD's expectations on siphon evaluations and design.

Based upon these merits, staff recommends awarding a Professional Services Agreement to Woodard & Curran in the amount of \$1,285,684. The consultant selection matrix is provided in Exhibit "A" and Woodard & Curran's proposal is provided in Exhibit "B".

## FISCAL IMPACTS:

Sewer Siphon Improvements Phase II, Project 11841, is included in the FY 2021-22 Capital Budget. The existing budget is sufficient to fund the project's design phase.

## ENVIRONMENTAL COMPLIANCE:

This project is subject to the California Environmental Quality Act (CEQA) and in conformance with the California Code of Regulations Title 14, Chapter 3, Section 15303. Section 15303 provides exemption of new, small facilities or structures; installation of small new equipment and facilities in small structures; water main, sewage, electrical, gas or other utility extensions, including street improvements of reasonable length to serve such construction. A Notice of Exemption will be prepared for the project and filed with the County of Orange.

### COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on June 21, 2022.

### **RECOMMENDATION:**

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE A PROFESSIONAL SERVICES AGREEMENT WITH WOODARD & CURRAN IN THE AMOUNT OF \$1,285,684 FOR DESIGN ENGINEERING SERVICES FOR THE SEWER SIPHON IMPROVEMENTS PHASE II, PROJECT 11841.

### LIST OF EXHIBITS:

Exhibit "A" – Consultant Selection Matrix Exhibit "B" – Woodard & Curran Proposal and Fee

## EXHIBIT "A" Sewer Siphon Improvements Phase II Project 11841 Consultant Selection Matrix

|   | Maighte | \\/oodord       | 9 Curron            | Ctopt                | ~~                  |
|---|---------|-----------------|---------------------|----------------------|---------------------|
|   | Weights | Woodard         | & Curran            | Stant                | ec                  |
| TECHNICAL APPROACH  | 50%     |                 |                     |                      |                     |
|   |         |                 |                     |                      |                     |
| *Project Approach   | 60%     |                 | 1                   |                      | 2                   |
| *Scope of Work  | 40%     |                 | 1                   |                      | 2                   |
|   |         |                 |                     |                      |                     |
|   |         |                 |                     |                      |                     |
| Weighted Score (Technical Approach)   |         |                 | 1.00                |                      | 2.00                |
| EXPERIENCE  | 50%     |                 |                     |                      |                     |
| EXPERIENCE  | 50%     |                 |                     |                      |                     |
| *Firm/Team  | 50%     |                 | 1                   |                      | 2                   |
| *Sewer Siphon and Condition Assessment Experience                                 | 50%     |                 | 1                   |                      | 2                   |
|   |         |                 |                     |                      |                     |
|   |         |                 |                     |                      |                     |
|   |         |                 |                     |                      |                     |
| Waightad Score (Experience)   |         |                 | 1.00                |                      | 2.00                |
| Weighted Score (Experience)   |         |                 | 1.00                |                      | 2.00                |
| COMBINED WEIGHTED SCORE   |         |                 | 1.00                |                      | 2.00                |
| Project Manager   |         | Mirko Maher     | 24                  | Joe Long             | 31                  |
| Project Engineer  |         | Justin Kraetsch | 7                   | Patrick Stahl        | 11                  |
| QC/QA   |         | Jen Glynn       | 27                  | Jim Cathcart         | 44                  |
| Technical Advisor   |         | Glenn Hermanson | 30                  | Umeth Murthy         | 30                  |
| Design Engineer   |         | Oliver Saeby    |                     | Bita Sadri           | 18                  |
| Structural  |         | Tom Scalese     | 12                  | Simon Lin            | 18                  |
| Sewer Modelling   |         | Cathy Greenman  | 20                  | Jeff Dunn            | 28                  |
|   |         |                 |                     |                      |                     |
| Condition Assessment  |         | V&A             |                     | Pro-Pipe             |                     |
| Traffic Control   |         | TCE             |                     | Stantec              |                     |
| CCTV  |         | NPS             |                     | Pro-Pipe             |                     |
| Surveying   |         | Calvada         |                     | Stantec              |                     |
|   |         |                 |                     |                      |                     |
| LABOR HOURS   |         |                 | Hours               |                      | Hours               |
| Task 1 - Project Management   |         |                 | 391                 |                      | 388                 |
| Task 2 - Preliminary Design   |         |                 | 630                 |                      | 898                 |
| Task 3 - Final Design   |         |                 | 2,261               |                      | 1,919               |
| Task 4 - Bid Support  |         |                 | 79                  |                      | 74                  |
|   |         |                 |                     |                      |                     |
|   |         |                 |                     |                      |                     |
| TOTAL HOURS   |         |                 | 3,361               |                      | 3,279               |
|   |         |                 | <u> </u>            |                      |                     |
| TOTAL SHEETS  |         |                 | 63                  |                      | 59                  |
| FEE   |         |                 |                     |                      |                     |
| Task 1 - Project Management   |         |                 | \$105,150.00        |                      | \$78,925.00         |
| Task 2 - Preliminary Design   |         | \$376,069.00    |                     | \$280,479.00         |                     |
| Task 3 - Final Design   |         | \$499,265.00    |                     | \$326,925.00         |                     |
| Task 4 - Bid Support  |         |                 | \$17,880            | ·'                   | \$19,240            |
| Optional CCTV   |         |                 | \$287,320           |                      | \$391,115 *         |
|   |         |                 |                     | *includes dewatering | \$160,000           |
|   |         |                 |                     |                      |                     |
| Grand Total excluding Optional Task   |         |                 | \$998,364.00        |                      | 705,569.00          |
| Grand Total including Optional Task   |         | \$1,            | ,285,684.00         | \$1,0                | 096,684.00          |
| Number of Drawings  |         |                 | 62 duice            | <u> </u>             |                     |
| Number of Drawings<br>Final Design Unit Prices (\$/dwg) (excluding optional task) |         |                 | 63 dwgs<br>\$15,847 |                      | 59 dwgs<br>\$11,959 |
|   | 1       |                 | ₽⊥┚,⋃┭ノ             |                      | ζυτισσ              |
|   |         |                 |                     |                      |                     |
| Professional Liability Insurance  |         | Yes             |                     | Yes                  |                     |
| General Liability Insurance   |         | Yes             |                     | Yes                  |                     |
|   |         |                 |                     |                      |                     |
|   |         |                 |                     |                      |                     |
| FORCED RANKINGS:  |         |                 |                     |                      |                     |
| 1 - First   |         | 1               |                     | 2                    |                     |
| 2 - Second  |         |                 |                     |                      |                     |
|   |         |                 |                     | <u> </u>             |                     |
|   |         |                 |                     |                      |                     |



Engineering Design Services for the Sewer Siphon Improvements Phase II

June 13, 2022 Revision

24422 Avenida de la Carlota Suite 180 Laguna Hills, CA 92653 www.woodardcurran.com

Via Electronic Mail

June 2, 2022

Woodarc

& Curran

Mr. Michael Lu Irvine Ranch Water District Michelson Water Recycling Plant 3512 Michelson Drive Irvine, CA 92612

### Re: Proposal for Engineering Design Services for the Sewer Siphon Improvements Phase II

Dear Mr. Lu:

Irvine Ranch Water District (IRWD) is seeking Engineering Design Services for the Sewer Siphon Improvements Phase II. Woodard & Curran has a full understanding of IRWD's project and unmatched qualifications for sewer siphon design. Based on our review of the request for proposal and discussions and meetings with IRWD staff, we have developed a comprehensive proposal to meet IRWD's needs and goals.

Woodard & Curran offers a team of highly qualified engineers with the technical expertise and local siphon knowledge to address IRWD's needs for the project. We propose **Mirko Maher** to serve as project manager and **Justin Kraetsch** as project engineer, each are experts in sewer design. Mirko has over 20 years of project management and sewer design experience, and Justin has recently completed the Sewer Siphon Project for IRWD and a similar project for the City of Anaheim. They will be supported by **Glenn Hermanson** and **Jen Glynn**, Technical Advisors and QA/QC, experts in sewer siphon design and trenchless technologies who have recently worked with Justin and IRWD on the Sewer Siphon Improvements Project Phase I. In addition, we have partnered with four specialty subconsultants: V&A for Condition Assessment, Calvada for surveying, TCE for traffic control and National Plant for CCTV.

Woodard & Curran's team members have extensive experience in sewer siphon design and trenchless projects throughout California. We **understand the challenges and local site conditions** having **recently completed the Sewer Siphon Improvements Phase I**. Our team members' thorough understanding of the unique challenges associated with this project will make this project a success for IRWD.

If you have any questions about our proposal, please contact me at khiggins@woodardcurran.com or (949) 420-5313 or Mirko Maher at Mmaher@woodardcurran.com or (925) 212-3757.

Sincerely,

Mak flahr

Mirko Maher, PE Project Manager

Kathleen Hipjins

Kathleen Higgins, PE Principal-in-Charge

B - 2



# A. Scope

Engineering Design Services for the Sewer Siphon Improvements Phase II

В-3



# A | Scope

## **Project Understanding**

IRWD's sewer system includes 19 inverted siphons in various locations. In 2016, the District completed a preliminary assessment and ranking of the siphons considering their risk of failure. Four (4) siphons were rehabilitated in Phase I as designed by Woodard & Curran working closely with IRWD staff. This Phase II project will evaluate the next seven siphons and design the necessary rehabilitation improvements.

The seven inverted siphons are listed below. Six of the siphons are located in the City of Irvine, and one is located in the City of Newport Beach.

- Siphon S1 San Diego Creek/University (constructed in 1966): This location consists of a three-barrel inverted siphon going under Sand Canyon Creek. The barrels are asbestos cement pipe (ACP) with diameters of 10-, 15- and 18-inches. There is no air jumper at this location.
- Siphon S3 Michelson/Riparian (constructed in 1976): This location consists of a two- barrel inverted siphon going under San Diego Creek at Michelson Drive, near Riparian View. The barrels are vitrified clay pipe (VCP) with diameters of 24- and 36-inches. The siphon includes a 21-inch air jumper. The 21-inch air jumper is reinforced polymer mortar pipe (RPMP) per the as-built.
- **3. Siphon S5 Jamboree/Main (constructed in 1972):** This location consists of a two-bar rel inverted siphon going under the Barranca Channel, near Main Street. The two barrels are 8-inch diameter VCP. The as-built drawings show two 8-inch VCP stubs one at the upstream manhole, and the other at the downstream manhole.
- **4. Siphon S8 Jeffrey/Alton (constructed in 1988):** This location consists of a two-barrel inverted siphon going under San Diego Creek, along Jeffrey Road. The barrels are VCP with diameters of 15- and 21-inches. There is a 15-inch polyvinyl chloride (PVC) air jumper at this location.
- 5. Siphon S9 Sand Canyon/Barranca (constructed in 1987): This location consists of a two- barrel inverted siphon going under the Barranca Channel, along Sand Canyon Avenue. The barrels are VCP with diameters of 8- and 12-inches. There is no air jumper at this location.
- 6. Siphon S16 University/Milano (constructed in 1998): This location consists of a twobarrel inverted siphon going under Bonita Creek, near SR-73. The two barrels are 16-inch diameter VCP. There is no air jumper at this location.
- 7. Siphon S18 Harvard/University (constructed in 1978): This location consists of a twobarrel inverted siphon going under Sand Canyon Creek (culvert), along Harvard Avenue. The two barrels are 8-inch diameter VCP. There is no air jumper at this location.

This project requires resolving many challenges for each siphon, including maintenance access, odor, flow control, and constructibility. To solve these challenges, our approach focuses on providing you the following three key elements:

» A specialized and experienced local team that is ready to hit the ground running: Our team of engineers have successfully worked together with IRWD on the Sewer Siphon Phase I project, are thoroughly knowledgeable about what is required for the project and understand the needs of IRWD. The team's institutional knowledge will shorten the "learning curve" to facilitate siphon condition assessment and rehabilitation designs that address the needs of IRWD.

- Leverage Recent Experience on Phase I with Flow Control Devices and Other Critical Items: Woodard & Curran will use our experience from the Phase I Project to streamline the design of the flow control devices (stop logs or gates) and other critical items, such as the siphon barrel and vault condition assessment/rehabilitation, vault access improvements, and flow bypassing. Our team of engineers will utilize their invaluable experience from Phase I to provide a design that minimizes change orders, improves the reliability and performance of these critical siphons, and factors in O&M throughout the process.
- Provide Implementable Proven Solutions for each Siphon: Woodard & Curran team has reviewed the RFP documents in detail, including existing as-built information, and have developed an approach for each siphon using the latest industry methods that have been successfully implemented at numerous siphons, including IRWD's S2, S4, S6, and S10 siphons as part of the Phase I project.

# Approach

Our extensive sewer siphon expertise and recent Phase I experience allowed Woodard & Curran's team of engineers and siphon experts to craft an approach that results in a design that will achieve IRWD's goals of restoring structural integrity and hydraulic capacities, reducing cleaning frequency, improving operation and maintenance, and mitigating odors at the seven siphons.

## A SPECIALIZED AND EXPERIENCED LOCAL TEAM THAT IS READY TO HIT THE GROUND RUNNING

We have selected our team based on their experience on the Phase I project. We included team members that have worked with IRWD previously specifically related to this project's scope of work; and have developed solutions for siphons with similar challenges. Challenges that were previously address in similar projects include site access restrictions, limited O&M access into the vaults that adds cost and complexity to routine maintenance, poor hydraulics leading to reduced capacity from accumulated sediment/debris, and odor issues. **Several team members, including Justin Kraetsch, Glenn Hermanson, Jen Glynn, and Oliver Saeby were involved in the Phase I project from the condition assessment phase through construction** and are already familiar with the related work and IRWD's concerns with addressing the issues related to each of the seven siphons included in this project scope.

This project will be managed from our Laguna Hills Office located minutes from the project sites. Mirko Maher, PE, will be project manager. The project engineer will be Justin Kraetsch, PE, with technical advisors Glenn Hermanson and Jen Glynn and design engineer Oliver Saeby.

Mirko has over 20 years' experience in sewer design, trenchless design, and condition assessment. Mirko will lead the design with the support of Justin Kraetsch, PE. Justin brings his strong technical background with design and has recently completed IRWD's Phase I Sewer Siphon Improvement Project, City of Santa Rosa Trunk Sewer and Siphon Condition Assessment Project, and City of Anaheim Magnolia and Broadway Sewer Siphon Rehabilitation Design. Woodard & Curran's project team includes renowned sewer design and trenchless technical experts, Jen Glynn and Glenn Hermanson, to provide senior technical guidance and quality control and quality assurance reviews, as well as input for solutions to minimize risks and service disruptions. They bring a nearly combined 60 years of project design experience and will support the team from planning to final document preparation to ensure high quality peer reviewed project documents are delivered while being mindful of constructability and reducing and eliminating project risks.

Condition assessment services will be required for this projects scope of work, as it is critical to understand each siphon's condition and as-built measurements in order to address the key project element of rehabilitation. Woodard & Curran has partnered with team member V&A Consulting Engineers because they bring their many years of condition assessment expertise. They will perform accurate field measurements and LiDAR 3D scanning while inside the vaults to ensure the design improvements and construction documents accurately reflect the as-built conditions.

Another critical element for the design of this project is performing topographic survey of each siphon location at the upstream and downstream structures, including dipping the invert elevations of the siphon barrels and inlet/outlet sewer for verification of record drawings and model information. Woodard & Curran has selected Cal-Vada for topographic survey services to ensure accurate construction documents may be developed.

National Plant Services will provide siphon barrel cleaning, dewatering, and closed-circuit television (CCTV) inspection support as an optional task during final design. We have worked closely with them on numerous projects.

*Due to our teams' experience with IRWD's Phase I Siphon Project, we have a shortened "learning curve" and are ready to hit the ground running providing IRWD cost effective and implementable solutions.* As provided in more detail in the following sections and scope of work, our team is ready to discuss some of these approaches and solutions with you at the kickoff meeting.

## LEVERAGE RECENT EXPERIENCE ON PHASE I WITH FLOW CONTROL DEVICES AND OTHER CRITICAL ITEMS

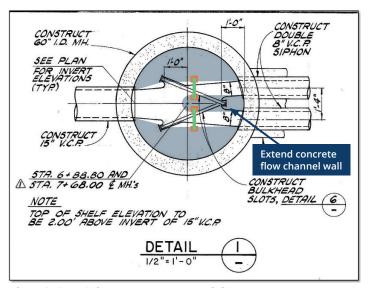
There is no "national standard" for inverted sewer siphon design. Inverted siphons are by nature prone to sediment accumulation due to their geometry and difficult to access for cleaning, inspection, and repairs, adding cost and complexity to routine maintenance. Engineers with less experience tend to make decisions with impacts that aren't apparent for years. The Woodard & Curran team has the invaluable experience from the design and construction of the Phase I Project and a deep knowledge for rehabilitating siphons. Our experience will be applied to this Phase II Project to optimize and streamline the condition assessments and design of critical components such as the flow control devices, siphon barrel and vault rehabilitation improvements, grit traps, and flow bypassing.

## Flow Control Devices

To improve siphon operation and reduce maintenance requirements, flow control devices such as stop logs or stop gates will be installed in the upstream structures to direct all dry weather flows to a single barrel. This will result in higher flow velocities in that dedicated "duty" barrel, and in turn reduce rate of sediment accumulation in that barrel. During wet weather flows, the flow would then be diverted into the other "standby" barrel(s). Flow control devices such as stop logs and stop gates also provide the ability to easily isolate siphon barrels for maintenance or construction activities.

Woodard & Curran will evaluate the existing flow control devices and alternatives for the seven siphons. The design for the flow control systems will be part of an overall siphon operation plan that maximizes the operation of each siphon to improve reliability and performance, reduce maintenance requirements and confined space entries, and provides full barrel isolation for future cleaning, CCTV, and rehabilitation activities.

As part of the Phase I Project, Woodard & Curran completed



The existing Siphon S5 upstream and downstream structures have long bulkheads. The new stop gates will be shortened to facilitate removal through the access cover. This will require reconfiguring the channels to provide adequate space behind the logs/gates to allow CCTV equipment to be inserted into the siphon barrels.

a thorough evaluation of flow control devices for the four siphons, including stop logs, stop gates, and sluice gates. Stainless steel stackable stop logs with frames embedded in the concrete channels were ultimately incorporated into the design documents and constructed. In preparation to construct the stop log frames at one of the siphons, it was discovered that the benches and flow walls were narrower than shown on the design plans. This change resulted in additional demolition and reconstruction requirements to accommodate the new embedded stop log frames. Accurate field measurements during design to compare against the record drawings could have prevented this construction change. In the Phase II Project, Woodard & Curran will have their condition assessment subconsultant, V&A Consulting Engineers, record accurate field measurements inside each structure and their surveying subconsultant, Cal-Vada, will perform LiDAR 3D scanning to obtain measurements of the structures, pipe openings, and any existing equipment inside the structures.



The existing upstream structure for Siphon S1 was not constructed per the record drawings. Accurate field measurements of the flow walls and bench will be critical in order to determine how to make a stop gate/log frame fit.

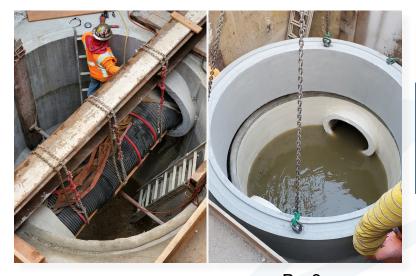
## Vault Condition Assessments and Rehabilitations

Woodard & Curran's subconsultant, V&A Consulting Engineers, will perform a condition assessment of the upstream and downstream siphon structures, including physical testing of the concrete and liner (if present), and visual assessment of the hatches, inlet and outlet pipe connections, and sluice gates and stop logs (if present). Based on a review of the RFP documents, 10 of the 14 vaults are lined with PVC liner and the remaining four vaults are lined with polyurethane or a similar spray-type corrosion protection liner. During the Phase I Project, the condition assessment identified delamination and bulging of the existing PVC liner in the vaults, indicating potential corrosion of the concrete behind the liner. During construction, it was discovered that the concrete in S4, S6, and S10 vaults was in primarily good condition after the existing PVC liner was removed. Behind-the-liner concrete testing, consisting of cutting back the liner to assess the concrete behind it via sounding, penetration measurements, and surface pH, is commonly employed to get an accurate condition assessment of lined concrete. Performing behind-the-liner concrete testing can help reduce costly liner removal and reapplication work by providing a more complete assessment of the existing structure. These behind-the-liner concrete tests will be performed by V&A Consulting Engineers as part of the condition assessments.

## <u>Grit Traps</u>

The addition of grit traps on gravity sewer lines upstream of inverted siphons can reduce long-term maintenance requirements and cleaning frequencies by capturing sediments before they enter the barrels. The primary criteria for determining the need for a grit trap upstream of siphon include the configuration of the sewer system, flows, and maintenance access to the proposed grit trap. They should be located as close to the siphon as possible with minimum number of laterals or sewer connections between the trap and siphon, in an area where a vactor/combo truck can park without significant traffic impact and where O&M staff can safely access the manhole to vacuum out the grit.

Grit traps were installed upstream of Siphon S2 and S10 as part of the Phase I Project. IRWD has expressed satisfaction with their performance to-date based on the quantity of debris removed during each cleaning and the relatively straightforward cleaning process. This matches the positive feedback from other clients with grit traps designed by Woodard & Curran: Oro Loma Sanitary District and City of Santa Clara. The Phase 1 grit traps upstream of Siphons S2 and S10 were installed in live flow using flow-through plugs and did not require sewer service interruptions.



Grit Trap constructed in live flow on 42-inch RCP sewer upstream of Siphon S10 as part of the Phase 1 Sewer Siphons Project. Woodard & Curran has evaluated preliminary locations of grit traps for the seven Phase II siphons based on a detailed review of the RFP documents and site visits. At Siphon S3, the highest flow siphon of this project, a grit trap could be located approximately 700 feet upstream of the siphon on the 51-inch RCP San Diego Creek Interceptor line within IRWD's 20-foot-wide easement. Their easement runs along an Orange County Flood Control District access road parallel to the San Joaquin Channel. Woodard & Curran will perform and detailed evaluation of the feasibility and benefits of adding grit traps upstream of Siphons S1, S3, S5, S8, S9, S16, and S18 during the preliminary design phase.

## **Flow Bypassing**

Flow bypassing will be required to construct the rehabilitation improvements inside the siphon upstream and downstream structures and to complete cleaning/dewatering/CCTV inspection and rehabilitation of the barrels. Flow bypassing for siphons is typically performed by one of the following:

- **1.** Installing a temporary above-ground pumping system upstream of the siphon and discharging flows into a manhole downstream of the siphon; or
- **2.** Installing flow-through plugs inside the siphon upstream and downstream structures if a single barrel (for dual barrel configurations) or two barrels (for triple barrel configurations) can handle peak dry weather flows.

Woodard & Curran will evaluate these bypass options during the preliminary design phase. The flow-through plug option was successfully implemented at each siphon for the Phase I project and is the preferred approach over installing above-ground bypass pumps and piping where feasible. This is dependent on the peak dry weather flow through the siphon and capacity of the siphon barrels. For dual-barrel configurations, such as at S3, S5, S8, S9, S16, and S18, one barrel would remain active while flow-through plugs are in operation. For the triple-barrel configuration at S1, up to two barrels could remain active at all times. As part of the hydraulic analysis of the Phase II siphons, Woodard & Curran will confirm the estimated the peak dry weather flow requirements and determine if the siphons have the capacity to handle the peak dry weather flows with one barrel out of service.



Flow-through plugs installed at S2 siphon structures to provide flow bypass during vault and siphon barrel rehabilitation work as part of the Phase I Sewer Siphon Project.

## Sewer Cleaning, Dewatering, and CCTV Inspections

As part of the Phase II Project, the ACP and VCP siphon barrels will be cleaned, dewatered, and inspected with CCTV to assess their condition and recommend rehabilitation improvements. A sanitary sewer flow bypass system must be implemented to isolate each siphon barrel for this work. As previously discussed, a passive flow bypass system utilizing flow-through plugs in the upstream and downstream structures is the preferred approach over installing above-ground pumps and piping where feasible. Woodard & Curran will evaluate the different bypass options after completing the hydraulic analysis as part of the preliminary design phase. The Preliminary Design Report (PDR) will include the recommendations for cleaning and CCTV inspections at each siphon and the bypass system required to complete the work.

The cleaning, dewatering, and CCTV inspections can be performed during the final design phase after the completion of the hydraulic analysis and PDR or during the construction phase. The S2, S4, S6, and S10 siphon barrels were inspected during the construction phase for the Phase I project, and the results of the inspections were used to execute the bid items associated with rehabilitation using cured-in-place pipe (CIPP) liners. This approach was successfully implemented and is the recommended option if there are existing flow control devices such as sluice gates that must be demolished by a contractor in order to complete the work (installing flow-through plugs, cleaning, dewatering, and CCTV of isolated barrels).

Based on the condition of the existing barrels and flow control devices per the RFP documents, the existing stop gate frames at S1, S8, S9, S16, and S18 are likely too corroded and would not provide an adequate seal to complete cleaning and CCTV. The current devices in S3 and S8 are stuck-in-place and would obstruct cleaning and CCTV equipment; thus, requiring demolition to proceed with the work. The table below includes a summary of the existing sluice gates and stop logs based on the RFP documents:

| Siphon                              | Barrels           | Existing Flow<br>Control Devices                  | Status                                 |
|-------------------------------------|-------------------|---|--|
| S1 – San Diego Creek/<br>University | 10", 15", and 18" | None  | All open, flowing                      |
| S3 – Michelson/Riparian             | 24" and 36"       | Redwood baffles, stuck<br>halfway in guide frames | All open, flowing under frozen baffles |
| S5 – Jamboree/Main                  | Two 8"            | None  | All open, flowing                      |
| S8 – Jeffrey/Alton                  | 15" and 21"       | Sluice gates and stop gates                       | All open, flowing                      |
| S9 – Sand Canyon/<br>Barranca       | 8" and 12"        | Sluice gates, gate<br>partially closed on 8"      | 12" flowing, 8" closed                 |
| S16 – University/Milano             | Two 16"           | Stop logs, one installed                          | One flowing, one closed                |
| S18 – Harvard/University            | Two 8″            | None  | All open, flowing                      |

## Summary of Existing Flow Control Devices and Flow Through Barrels from RFP Documents

The condition of the existing flow control devices and flow through the barrels will be assessed and documented as part of the condition assessment.

The pros and cons of performing the cleaning, dewatering, and CCTV during the final design phase versus the construction phase are summarized in the table on the following page.

| Phase                 | Pros   | Cons   |
|-----------------------|--|--|
| Final Design<br>Phase | <ul> <li>Define rehabilitation requirements<br/>(CIPP or spot repairs) prior to Bid.</li> <li>Reduced construction cost.</li> </ul>  | <ul> <li>Extends design schedule by 2-3 months.</li> <li>Increased design fee.</li> <li>Pay CCTV subcontractor for cost to<br/>furnish and install bypass system and<br/>demolish existing interfering gates/logs.<br/>(ballpark = \$30,000 - \$40,000)</li> </ul> |
| Construction<br>Phase | <ul> <li>Cost savings for utilizing Contractor's bypass system.</li> <li>Reduced design schedule and fee.</li> <li>Successful implementation in Phase 1 siphon project.</li> </ul> | <ul> <li>Additional bid items for initial cleaning,<br/>dewatering, and CCTV of siphons.</li> <li>Provide alternate bid items for rehabil-<br/>itation work pending inspection results<br/>(CIPP or spot repairs).</li> </ul>                                      |

## Pros and Cons for Performing Siphon Barrel Cleaning, Dewatering, and CCTV During Final Design vs. During Construction

As shown in the Scope of Work and Fee Estimate, Woodard & Curran has included cleaning, dewatering, and CCTV inspection as an optional task as part of our scope of work. If authorized by IRWD, we would execute a contract with our CCTV subconsultant, National Plant Services, to complete the work during the final design phase.

# PROVIDE IMPLEMENTABLE PROVEN SOLUTIONS FOR EACH SIPHON

Woodard & Curran's team has reviewed the RFP documents in detail, including existing as-built information, and have developed an approach for each siphon using the latest industry methods that have been successfully implemented at numerous siphons, including IRWD's S2, S4, S6, and S10 siphons as part of the Phase I project. Based on our experience, we have developed solutions for each siphon which include access improvements to pull up to each of the structures, which would allow for future equipment cleaning and maintenance need. Our team has reviewed the information specific to the seven siphons included in this scope (S1, S3, S5, S8, S9, S16, and S18) and provided a potential approach for each siphon as outlined in the table at the end of this section. In addition, we have provided an example of some more detailed thoughts and some solutions for one of the more difficult siphons to access, Siphon S9.

## **S9 Maintenance and Access**

- To address safety and operational needs, we will investigate removing the metal sluice gates and adding other means to control flow, which would be implemented from surface at the top of the vault. These could be stop logs that can be installed and removed from the ground surface through new composite manhole covers. Providing flow control that reduces or eliminates the need for its confined space entry into the structure and will improve safety for IRWD O&M staff.
- 2. On both the upstream and downstream sides, building up the ground to surface to be level with the top of the structure adjacent to the bike path will improve access to the structures. This could be implemented by construction of a wingwall to allow vehicles to back up to the access covers. At locations where the access if flush to adjacent grade, use of curb walls and grading will be investigated.
- **3.** On the upstream side of this siphon, reduce and eliminate sediment accumulation within the siphon by constructing a grit trap. A grit trap could be installed on the 18-inch inlet

sewer within approximately 20 feet of the inlet structure on the bike path at this location. This 18-inch sewer is within IRWD's existing 20-foot wide easement.

## **S9 Odors and Odor Control**

- To address any potential for odor issues near the structures and corrosion of the metallic access hatch, we recommend removing the top slab of the structure and replacing it with a new precast concrete slab outfitted with IRWD's standard airtight composite manhole covers. Precast polymer concrete will be evaluated as a material option for the replacement top slabs for their corrosion resistance benefits.
- **2.** If solutions to the odor issues at the downstream structure are needed beyond replacing the top slab with airtight composite manhole covers, we will evaluate adding a chemical dosing system immediately upstream of the siphon, in the area east of the bike path.

## **Recommended Improvements to Access**

Siphon S9's upstream structure is located within Orange County Flood Control District right-of-way within a 20-foot wide IRWD sewer easement. The vault is raised approximately 2 to 6 feet above grade, complicating access into the vault. Two approaches to be investigated at this location to provide vehicle and personnel access into the vault would include the following two options.

- 1. Grading the adjacent property and ramp to be level with the top of the access; or
- **2.** Lowering the access and installing a wingwall to retain the adjacent grades. The option to raise the surface is illustrated on the following figure.



#### Siphon S9 Access Improvement (Option to Raise to Surface)

Access road and would be constructed south of the existing tree Access road and would be constructed south of the existing tree

For the other six siphons, refer to the following table which summarizes some of the issues and concerns as well as a potential approach. These approaches and others developed as part of the preliminary design will be discussed in a workshop setting which will give opportunity for IRWD O&M and design staff to provide crucial feedback.

## SIPHON ISSUES AND POTENTIAL SOLUTIONS

| Siphon  | Potential Approach   |
|---|--|
| <b>Siphon S1</b> -<br>San Diego Creek / University<br>Barrels: 10", 15", & 18" ACP<br>Air Jumper: None<br>PDWF = 6.33 mgd | <ol> <li>Evaluate access improvements to the inlet structure. Options include constructing an all-weather access road, lowering the height of the structure to be flush with gacess road to be wider and flatter.</li> <li>Evaluate access improvements to the outlet structure. Options include constructing an all-weather access road and lowering the height of the structure to be flush in the south end of the Bethel Church parking lot. A combination unit could be positioned at this new manhole while a maintenance worker walks to outlet structure.</li> <li>Both the inlet and outlet structures were not constructed as shown on the record drawings. The narrow benches and flow channel walls will create challenges to co shown in our proposal. Detailed field measurements and LiDAR 3D scanning will be performed during the man-entry structure inspections to capture accurate as-b</li> <li>To address odor issues at the inlet structure, the top slab could be replaced with a new precast slab equipped with airtight composite manhole covers that effective concrete (corrosion proof) for the top slab as an alternative material option.</li> <li>A grit trap could be located approx. 300 feet south of the siphon inlet structure next to the parking lot for the Mariposa Villa Apartments to allow for better a carbon canister) could also be installed on the grit trap at this location.</li> <li>An air jumper could be constructed across the creek via open cut under the bike path. This will be evaluated during the design phase.</li> </ol>  |
| <b>Siphon S3</b> -<br>Michelson / Riparian<br>Barrels: 24" & 36" VCP<br>Air Jumper: 21" RPMP<br>PDWF = 41.01 mgd          | <ol> <li>Both the inlet and outlet structures have 48"x48" access shafts (aka "chimneys") from the ground surface to the vaults. This configuration partially blocks visual insp<br/>and extending the walls up to the ground surface with the top slab at the ground surface.</li> <li>The top slab of the structures will be replaced with precast slabs equipped with airtight composite manhole covers to eliminate odor issues. We will evaluate preca<br/>alternative material option.</li> <li>The reported odor issues at the inlet structure are surprising since the existing 21" air jumper should be conveying air downstream. We will inspect the existing 21"<br/>of the condition assessment to determine if it is adequately sized or plugged. An airtight lid is the first strategy to eliminate odors at this location. We may also reco<br/>west in the landscaped area next to a parking lot. A vent may also be recommended at the outlet structure.</li> <li>The configuration of the existing baffles/gates will be confirmed during the man-entry structure inspections. The existing redwood baffles will be removed, and we</li> <li>If a grit trap is constructed, it could be located on the 51" RCP interceptor approx. 700 feet upstream of the siphon as the sewer extends north within a 2<br/>between Harvard Ave. and San Joaquin Channel to allow for better access for combination units for cleaning. An air vent (with carbon canister) could also be inspections.</li> </ol>  |
| <b>Siphon S5</b> -<br>Jamboree / Main<br>Barrels: 8" & 8" VCP<br>Air Jumper: To be confirmed<br>PDWF = 3.74 mgd           | <ol> <li>Both of these structures are located in the #2 lane of the heavily trafficked Jamboree Road.</li> <li>We will evaluate the advantages and disadvantages of moving the siphon 30 feet west so that the structures could be accessed without significant traffic control.</li> <li><b>The man-entry structure inspections will determine if the air jumper was constructed.</b> If present, the air jumper will be inspected via CCTV.</li> <li>There is no good location for a grit trap upstream of this siphon before the 15" sewer bifurcates at the Kelvin Ave and Jamboree Rd intersection. Therefore a grit trap advantages of a grit trap in this location will be evaluated. Installing a Smart Cover at this location will also be evaluated as this location is difficuent.</li> <li>Lanes 1, 2, and 3 will likely be closed during construction work at the manholes. If three lanes are closed, the temporary traffic control measures would impact access Limiting closure to two lanes may avoid impacting the 405 off-ramp and Caltrans involvement. We will evaluate limiting construction work area to lanes 1 and 2 on the structure to two lanes may avoid impacting the 405 off-ramp and Caltrans involvement. We will evaluate limiting construction work area to lanes 1 and 2 on the structure in the structure in the structure in the structure in the structure involvement.</li> </ol>  |
| <b>Siphon S8</b> -<br>Jeffrey / Alton<br>Barrels: 15" & 21" VCP<br>Air Jumper: 15" PVC<br>PDWF = 12.14 mgd                | <ol> <li>The existing corroded sluice gates will be removed. Since the gates appear to be open, it may be possible to dewater and CCTV the siphon barrels during either the 2. The top slab of the structures will be replaced with precast slabs equipped with airtight composite manhole covers to eliminate odor issues. We will evaluate preca alternative material option.</li> <li>As an additive odor protection measure, an air vent (with carbon canister) could be added at the upstream and downstream structures.</li> <li>The downstream structure has a vertical curb at the edge of the parking lot which keeps the combination unit from being positioned properly over the structure. We proper positioning of cleaning equipment.</li> <li>We will inspect the 15" air jumper to determine the condition of the air jumper and analyze the air flow to determine if it is adequately sized.</li> <li>A grit trap could be constructed on the existing 33-inch VCP inlet sewer approximately 10 to 30 feet upstream of east of the siphon inlet structure within the 25' within the 25' within the 25' within the 25' within the siphon inlet structure within the 25' within the siphon single structure within the 25' within the siphon inlet structure within the 25' within the siphon inlet structure within the 25' within the signed structure within the si</li></ol> |
| <b>Siphon S9</b> -<br>Sand Canyon / Barranca<br>Barrels: 8" & 12" VCP<br>Air Jumper: None<br>PDWF = 2.37 mgd              | <ol> <li>The existing corroded sluice gates will be removed and we will evaluate replacement flow control devices.</li> <li>The top slab of the structures will be replaced with precast slabs equipped with airtight composite manhole covers to eliminate odor issues. We will evaluate preca alternative material option.</li> <li>Since there have not been any reported odor issues on the upstream side of the siphon, installing an air jumper (by attaching it to the outside of the bridge) is not</li> <li>There have been odor issues on the downstream side of the siphon. An air vent (with carbon canister) could be added at this location and located adjacent to the la</li> <li>The upstream structure is raised several feet above the sloped grade which prevents proper access to the structure. Site access improvements to the upstream structure access road turnout from the bike path and wingwalls to retain the adjacent grades. A conceptual sketch is provided in this proposal.</li> <li>The downstream structure has a vertical curb at the edge of the parking lot which keeps the combination unit from being positioned properly over the structure. We positioning of cleaning equipment.</li> <li>If a solution for downstream odor issues is needed, there appears to be adequate room for a chemical dosing system in the area east of the inlet structure 8. On the upstream side, a grit trap could be installed within 20 feet of the inlet structure on the bike path.</li> </ol>   |

rade, constructing a retaining wall, and **allowing the** 

with grade. Another option is to construct a new manhole re to direct the hydroflushing hose to the proper barrel. nstruct stop gate/log frames. A potential configuration is uilt conditions.

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bection from the surface. Evaluate removing these shafts

ast polymer concrete (corrosion proof) for the top slab as an

air jumper and analyze air flow through the jumper as part ommend an air vent with carbon canister located 200 feet

will evaluate replacement flow control devices. 20' wide sewer easement along a dirt access road stalled at this location.

ap would also be located in Lane #2 on Jamboree Rd. The Ilt to visually inspect.

ss to the 405 FWY and trigger Caltrans' involvement. ly. Nighttime work will likely be required.

e design phase or the construction phase. st polymer concrete (corrosion proof) for the top slab as an

#### e will design site access improvements to allow the

de sewer easement.

st polymer concrete (corrosion proof) for the top slab as an

recommended.

andscaping.

cture will be recommended. One option is to construct an

'e will design site access improvements to allow the proper

e near the bike path.

## SIPHON ISSUES AND POTENTIAL SOLUTIONS

| _ |  |  |
|---|--|--|
|   | Siphon   | Potential Approach   |
|   | <b>Siphon S16</b> -<br>University / Milano               | <ol> <li>The cone/ top slab of the siphon manhole structures will be replaced with a new cone/slab with an airtight composite cover to eliminate potential future odor issues.</li> <li>Both the inlet and outlet structures are 72" diameter manholes with short channels for the siphon barrels. There may be inadequate space behind flow control device equipment. We will evaluate options that accommodate the minimal space and improve O&amp;M access.</li> </ol>    |
|   | Barrels: 16" & 16"<br>Air Jumper: None<br>PDWF = 4.2 mgd | <ol> <li>Since there have not been any odor issues on the upstream side of the siphon, constructing air jumper (by attaching it to the outside of the bridge) is not recommen</li> <li>An all-weather driving surface should be installed around the downstream structure. This would provide improved vehicle assess and also reduce the amount</li> <li>We will evaluate constructing a grit trap on the existing 30" VCP inlet sewer within Bonita Creek Park.</li> </ol> |
|   | <b>Siphon S18</b> -<br>Harvard / University              | <ol> <li>The existing manhole covers and frames will be replaced with composite covers per IRWD standards.</li> <li>Both the inlet and outlet structures are 60" diameter manholes with short channels for the siphon barrels. There may be inadequate space behind flow control device equipment. We will evaluate reconfiguring the location of the flow control devices. A larger structure may be constructed around the existing upstream structure. Any</li> </ol>     |
|   | Barrels: 8" & 8"<br>Air Jumper: None<br>PDWF = 1.5 mgd   | <ul> <li>Constructing a larger structure at the downstream location may not be recommended due to its location in the middle of the intersection.</li> <li>3. Since there have not been any odor issues on the upstream side of the siphon, installing an air jumper (via open cut) is not recommended.</li> <li>4. A grit trap could be installed on the existing 12" PVC inlet sewer upstream of the siphon in the median (relatively minor traffic impacts).</li> </ul>   |

ces to allow for effective use of inspection and cleaning

ended. ount of brush encroaching on the structure.

ces to allow for effective use of inspection and cleaning my reconfiguration must eliminate the ragging situation.

# **SCOPE OF WORK**

## TASK 1. PROJECT MANAGEMENT

## Task 1.1 Meetings

Woodard & Curran will prepare for and attend up to six project meetings, including the kickoff meeting two PDR meetings and three design review meetings as outlined in the table below. In addition, Woodard & Curran's mechanical, structural, and other key staff will meet for two on-site visits during preliminary design. The on-site visits may be conducted at the time of the coordination meetings or separately. Woodard & Curran will prepare an agenda and meeting notes for each meeting, which will be distributed to the IRWD Project Manager within 5 working days of meetings.

| Meeting/Workshop  | Description              |
|---|--------------------------|
| Preliminary design kick-off and site visit  | One (1) two-hour meeting |
| Present draft Preliminary Design Report   | One (1) two-hour meeting |
| Present final Preliminary Design Report<br>and discuss responses to IRWD's comments | One (1) two-hour meeting |
| Present the 60% design  | One (1) two-hour meeting |
| Present the 90% design and discuss responses to IRWD's comments                     | One (1) two-hour meeting |
| Present the 100% design and discuss responses to IRWD's comments                    | One (1) two-hour meeting |

## Task 1.2 Coordination and Project Status Reports

Woodard & Curran will provide regular project coordination, communication, and updates to IRWD weekly. Woodard & Curran will prepare weekly and monthly status reports. Each weekly status report will be submitted on Monday and shall consist of a brief (one to two paragraphs) e-mail summarizing the activities completed the previous week, the activities planned for the upcoming week, and critical decisions that need to be made. Each monthly status report will be submitted along with the billing invoice for that month. The monthly status reports will include a detailed summary of the work completed for that month, the work planned for the upcoming month, and a review of the work status relative to budget and schedule. Woodard & Curran will maintain and update a log of key action items and decisions, which will include key outstanding decisions as well as a record of key decisions made at meetings or in other forums with IRWD.

A Microsoft Project schedule will be prepared and updated at least monthly. The schedule will include detailed schedules for both design and construction activities. The schedule will include critical factors impacting the project schedule including permitting, design, bid and construction phases and shall reflect IRWD's Notice of Award and Notice to Proceed, contractor shop drawing submittals and Engineer review, manufacturing and delivery times for construction materials, construction activities and construction close out.

## **Task 1.3 Project Invoicing**

Woodard & Curran will track the project scope, budget, and schedule and document progress in monthly progress reports that will be submitted with each invoice. Each monthly progress report will provide detail summarizing the work completed and will review work status relative to budget and schedule. The project schedule will be updated on a monthly basis for inclusion in the monthly progress report.

## **Task 1.4 Quality Control Plan**

Woodard & Curran will implement its quality assurance program for the project, which will include an internal Senior Technical Approach Review (STAR) Workshop at the onset of the project, as well as a senior level technical review (quality control reviews) of project deliverables. Our quality assurance (QA) program includes tracking of all major deliverables, assigning reviewers and documenting reviews in the project files.

#### Task 1 Deliverables:

- → Data Request List (electronic copy, via email)
- → Meeting Agendas and Minutes (PDF or Microsoft Word files via email)
- → Weekly Progress Reports (electronic email)
- → Monthly Progress Report and Updated Schedule (pdf with invoice via email)

#### Task 1 Assumptions:

→ Assumes an 11 month design project duration from NTP through 100% final design submittal.

## TASK 2. PRELIMINARY DESIGN

Woodard & Curran will perform the following subtasks as part of the preliminary design phase. The primary goal of this task is to establish facility design criteria. The subtasks will be documented and compiled into a Preliminary Design Report.

# Task 2.1 Data Collection and Review, Utility Information, and Topographic Survey and Laser/3D Scanning

Woodard & Curran will prepare an initial data request list and submit the list to IRWD ahead of the project kickoff meeting. W&C will review available documents relative to the project, including but not limited to: as built drawings, siphon evaluation reports, atlas maps, IRWD's InfoSWMM hydraulic model, and O&M records. The data request list will be updated and sent to IRWD as needed as information is received, and as new information is requested.

Woodard & Curran will research to confirm utilities in the area that will be potentially impacted by the project. Utility review will be based only on mapping provided by No-dig agencies and records provided by IRWD. Utilities if determined present (e.g., storm drain, electrical, gas, and telephone/communication duct banks) will be avoided if possible.

Woodard & Curran's surveying subconsultant, Cal-Vada, will perform a topographic survey of the inlet and outlet siphon structures at each siphon (14 total), including dipping the invert elevations of the siphon barrels. The survey data will be used for verification of record drawing and model information, and base mapping for preliminary and final design of the recommended improvements. A topographic survey will also be performed at the proposed grit trap locations. It is assumed that grit traps will be constructed upstream of each siphon (7 total).

#### **Survey Features:**

- → Survey shots will be taken on 50-foot natural ground grit and 25-foot curb/sidewalk grid on the streets to create 1-foot contour intervals.
- → Location, elevation, size, and type of visible above ground existing utilities within the survey areas.
- → Spot elevations of grade breaks and flow lines of adjacent streets, curbs, or catch basins that terminate or commence offsite flow within the survey areas.
- → Flow line invert elevations and sizes of existing sanitary sewer and storm drain structures and manholes within and adjacent to the survey areas. IRWD will open structures/ manholes as required.
- $\rightarrow$  Existing driveways and intersections adjacent to survey areas.
- → Location of existing adjacent striping and signing, and traffic control signals within the survey areas.
- → Public fire hydrants within the survey areas. If none are in the survey areas, the nearest two will be provided.
- $\rightarrow$  Streetlights within the survey areas.
- $\rightarrow$  Location of trees over 6 feet in height, regardless of caliper, within the survey areas.

The vertical control will be based on the North American Vertical Datum of 1988 (NAVD 88). A local municipal benchmark will be used, if available. The horizontal control will be based on the California State Plane Coordinate System of 1983 (NAD 83).

Property lines of the parcels will be included from record data, along with easements of record.

Woodard & Curran's condition assessment subconsultant, V&A Consulting Engineers, will use Laser/3D scanning inside each existing siphon structure to obtain detailed and accurate measurements of the interior of the structures, inlet and outlet piping, siphon barrels, and any existing equipment inside the structures. The results will be incorporated into the design plans to accurately reflect the existing conditions for the demolition and construction requirements of the proposed improvements.

#### **Task 2.2 Condition Assessment**

Woodard & Curran's subconsultant, V&A Consulting Engineers (V&A), will perform a complete condition assessment of all 14 siphon structures (7 inlet and 7 outlet). As the first step of the condition assessment, V&A will review as-built drawings and other related documents to the inverted siphons to support planning and condition assessment work. A Work Plan/ Health and Safety (H&S) Plan will be developed for the condition assessment work that will document the methods and locations of the field work, safety requirements, crew contact information, and schedule. A draft Work Plan/H&S Plan will be submitted to W&C and IRWD for one round of comments. Comments will be incorporated into a final submittal. V&A personnel will have previously completed and received certification for confined space training, fall protection training, and fall protection equipment training. V&A will provide and use its own fall protection equipment.

V&A will make a confined space entry into all 14 siphon structures to complete the condition assessment field testing. Items that will be assessed include the vault, vault hatch, inlet piping entering the vault, outlet piping exiting the vault, sluice gates, stop logs (if present), and lining (if present). Where linings are present, V&A will cut back the liner at one (1) location within

each structure to assess the concrete behind the liner. Once all assessments are complete, V&A will repair the lining where removed. The field testing will include the following:

 Visual Assessment: Visually assess accessible areas of the structures, rate condition of concrete surfaces, existing liners, and metallic components, document observations using digital photographs. A minimum of ten (10) photos will be obtained from each structure.

## 2. Reinforced Concrete:

- a. Assess the concrete condition by "sounding" to listen for shallow subsurface discontinuities such as voids, delamination, and honeycombing within the concrete substrate. Sounding will be performed at various elevations of the walls and on the floor/bench of the structure. Delaminated areas will be marked with chalk for reporting purposes.
- **b.** Conduct penetration measurements (using a chipping hammer) to find the depth to sound material at various locations within the structures.
- **c.** Measure the surface pH of the concrete surfaces at the concrete penetration test locations described above. The pH of the concrete can substantiate the extent of degradation.

**3. Metallic:** For any metallic surfaces, perform ultrasonic thickness testing (UT) to determine the remaining wall thickness of the metal. Up to ten (10) UT measurements at each structure will be taken.

V&A will obtain CCTV of the existing air jumper lines. Based on a review of the RFP documents, Siphon S3 has a 21-inch RPMP air jumper and Siphon S8 has a 15-inch PVC air jumper. The tractor mounted CCTV will be inserted into the air jumper line and the vaults and will travel downstream. Tractor CCTV allows for pan, tilt, and zoom of the camera to focus on observations. PACP reports per NASSCO will be provided.

V&A will perform differential pressure monitoring of the 21-inch air jumper line at Siphon S3 and 15-inch air jumper line at Siphon S8. Pressure monitoring will be performed for a period of seven (7) days at the inlet and outlet siphon structures (four monitoring locations total). The data will be used to calculate and analyze air flow through the air jumper piping. The differential pressure monitors will be capable of measuring differential pressure in the range of +/- 2-inches of water column. Instantaneous differential pressure samples will be recorded at each of the monitoring locations immediately prior to and after installation of the monitoring equipment.

#### **Condition Assessment Report**

After the field data are collected, V&A will prepare a condition assessment report that describes the field assessment methods, activities, results, conclusions, and recommendations for replacement and rehabilitation of the siphon inlet and outlet structures. The report will include photographs of the existing conditions, data tables, and graphical and illustrative figures, as required, to present the information gathered during this assessment. The locations and severity of defects will be noted, and the current condition of the structure regarding its state of degradation will be described. The draft report will be provided in electrical format (PDF) for one round of comments. Comments will be incorporated into a final report deliverable.

## **Task 2.3 Hydraulic Analysis**

Woodard & Curran will utilize IRWD's sewer hydraulic model (InfoSWMM) to conduct a hydraulic capacity analysis of the siphons as defined in the RFP. InfoSWMM is a stable and accurate hydraulic model for master planning. However, hydraulics associated with inverted siphons, specifically the transition between gravity flow and pressurized flow, can cause numerical inaccuracies. Therefore, we will review the accuracy and stability of IRWD's InfoSWMM model prior to conducting the siphon capacity analysis and if necessary, adjust the headlosses and pipe configurations to improve the model accuracy and capacity predictions. Our modeling approach is summarized below:

- → Evaluate the InfoSWMM model accuracy and adjust the model reflecting the hydraulic characteristics of the siphons, including gravity flow, pressurized flow, flow splits and transitions, and entry and exit losses.
- → Collect dry weather flow data from temporary flow meters installed in manholes immediately upstream or downstream of each siphon. Flow data will be collected for a two (2) week period. Additional scope of work on the field flow monitoring is provided later in this section.
- → Evaluate siphon performance with single and multiple barrel operation for dry and wet weather flow conditions.
- → Evaluate dry weather bypass and diversion flow requirements for use in planning the cleaning and rehabilitation process of the structure and siphon barrels during construction and during future siphon barrel cleaning and inspection maintenance.
- → Evaluate siphon performance with proposed weir boards set at various heights to determine if weir boards can stay installed 12-months per year or if weir boards will need to be adjusted seasonally. This evaluation will be performed assumed two conditions: the siphons are clean (no debris) and the siphons are partially filled with debris.
- → Evaluate the impact debris has on hydraulic capacity. The model will be run at various "levels of debris." The goal is to determine the impact of 1 inch of debris, 3 inches of debris, 6 inches of debris, etc. This is a critical analysis because the critical depth of debris for a peak wet weather event may not significantly impact the performance of the siphon during dry weather.

#### Sanitary Sewer Flow Monitoring

V&A will perform the sewer system flow monitoring at seven (7) locations to collect flow data for a duration of two (2) weeks. V&A will prepare flow monitoring equipment necessary for installing and removing the meters. Flow meters will be area-velocity flow meters capable of collecting flow level and velocity measurements in free-flow and surcharged hydraulic conditions. The V&A field crew with a fully equipped truck/van and necessary confined spaced entry equipment, simple traffic control, and flow monitoring equipment will install, field calibrate, and remove the flow meters.

The proposed flow meters for this scope of work will be equipped with an antenna for remote data monitoring. Malfunction of a flow meter will be documented and reported as soon as it is observed, and V&A will respond within a 48-hour window. After the first week, V&A will perform a site visit to download the data and perform in-situ calibrations. After two (2) weeks, V&A will download the data and remove the meters.

Following the flow monitoring activities and after the flow meters are removed, V&A will download the reduce the data in 15-minute intervals into Microsoft Excel spreadsheets for data analysis, data QA/QC, and report preparation. The report will include the following information:

- $\rightarrow$  A summary of the flow monitoring equipment used.
- → Location maps with addresses, pipe size, manhole identifier number, flow channel condition, site schematics, and photographs.
- → Flow monitoring data with tabular outputs of depth, velocity, and flow rate and hydrographs of depth, velocity, and flow rates for each flow meter.

#### Task 2.4 Siphon Operation and Maintenance (O&M) Program

Woodard & Curran will develop a siphon operation and maintenance program for each of the siphons, including recommended configurations based on hydraulic analysis and flow monitoring for various flow conditions (wet and dry weather), and recommendations for maintenance and cleaning procedures of the siphon structures and equipment. The O&M program will help maintain full capacity and redundancy of the siphons, maximize self-cleaning velocities through the primary barrels, and minimize risk for blockages, while minimizing or eliminating the need for operational adjustments during flow fluctuations.

## **Task 2.5 Recommend Improvements for Final Design**

Woodard & Curran will evaluate and recommend the required siphon improvements to be included in final design. The recommended improvements will be made to restore system capacity and redundancy and improve the long-term operation and maintenance of the siphons. The following items will be evaluated:

- 1. Addition of Grit Trap Structures: We will evaluate the feasibility and benefits of adding grit traps upstream of the seven siphons, including long term maintenance of the siphons and costs. We will develop a list of criteria for determining the need for a grit trap at each siphon location. Criteria to be considered may include siphon configuration, flow, maintenance access to the proposed grit trap, and benefits to the operation of the siphon.
- 2. Vault Structure and Lining: We will address deficiencies noted in the condition assess ment and recommend improvements that may benefit the long-term operation of the siphons, such as the repair of degraded concrete and corroded structures, and the repair or replacement of lining. The proposed vault improvements will also consider the potential for significant degradation of structures that is not visible due to the existing lining and will consider the condition and materials of the influent and effluent pipes of each structure.
- **3. Vault Access:** We will address deficiencies noted in the condition assessment and pro vide recommendations for hatch replacement or repair considering corrosion resistance and the prevention of escaping odors, precluding the need of applying a silicone sealant "gasket" each time the vault is closed. The proposed improvements will allow access for installation and removal of flow control devices, regular maintenance of the siphon barrels, and installation of flow-through plugs for long-term maintenance of the siphon. It is noted that Phase I replaced the existing hatches with composite manhole lids, which required replacement and reconstruction of the vault slab.
- **4. Site Access:** We will provide recommendations for site access improvements, where necessary, to facilitate access of vactor trucks and District's vehicles during maintenance.
- **5.** Flow Control Equipment: We will evaluate existing flow control systems and alternatives, e.g., sluice gates and stop logs and provide recommendations for equipment based on durability and reliability in a corrosive environment and minimizing or eliminating

confined space entries and extensive maintenance needs of the equipment. The equipment will also allow the District to adjust to changes in operational flow conditions, i.e., siphon operation program.

The design for the flow control systems will be part of an overall siphon operation plan that (a) maximizes the operation of the siphon to maintain reliability and redundancy through all possible flow conditions, and (b) eliminates the need for constant adjustments in response to daily flow fluctuations or wet weather flow conditions. The design will also allow for future isolation of each barrel for cleaning, dewatering, CCTV, and rehabilitation, if necessary, while minimizing the need for confined space entry.

- **6. Air Jumpers:** We will recommend repairs or improvements to the existing air jumpers and other improvements to reduce odors emanating from the siphon structures.
- **7. Cleaning, closed circuit television inspection, and rehabilitation of siphon barrels:** We will provide recommendations for cleaning, CCTV, and rehabilitation of the siphon barrels, including development of bypass or diversion requirements and optional rehabilitation methods, such as cured-in-place-pipe (CIPP), spot repairs, grouts, pre-liners, etc., which will be included as unit priced Alternate Bid Items in the Construction Documents to address any defects that are discovered during the construction phase.

Woodard & Curran will evaluate different bypass options, such as aboveground bypass pumping and flow-through plug and provide recommendations with considerations of the risks and costs associated with each bypass option.

### **Task 2.6 Preliminary Opinion of Probable Construction Cost**

Woodard & Curran will provide a preliminary Opinion of Probable Construction Cost for the Project.

### **Task 2.7 Preliminary Construction Schedule**

Woodard & Curran will provide a preliminary construction schedule that reflects coordination items, date of completed plans, critical path issues, any long lead items, and IRWD review times.

## **Task 2.8 Preliminary List of Drawings**

Woodard & Curran will provide a preliminary list of drawings anticipated in the Final Design. The list of drawings may include site plan, demolition plan and details, site access improvement plan, siphon structure improvement plan and sections including concrete and lining rehabilitation, siphon barrel plan and profile, traffic control plans, bike/pedestrian diversion plans, etc. and will be updated based on the preliminary list identified in Task 3.

### Task 2.9 Preliminary Design Report (PDR)

The work described above will be summarized and compiled into a PDR. The PDR will summarize the results of the subtasks identified above along with additional design criteria identified during the preliminary design phase. One PDF file of the draft PDR will be submitted for review. Upon resolution and incorporation of review comments, one PDF file of the final PDR will be submitted.

#### **Task 2 Deliverables:**

- → Data Request List
- → Topographic Survey

- → Draft and Final Condition Assessment Report
- → Draft and Final Preliminary Design Report including opinion of probable cost, construction schedule, list of drawings.
- → The hydraulic modeling results, flow monitoring data report, condition assessment report, and CCTV inspection of the Siphon S3 and S8 air jumpers will be included as appendices.

#### Task 2 Assumptions:

- → IRWD will provide access to all facilities, including opening of siphon inlet and outlet structures, as required given reasonable notice.
- → PDR will include preliminary schematics of siphon improvements.
- → IRWD will provide easement documentation for the existing easements. This documentation will either be a title report for each parcel or will be in AutoCAD format that can be inserted into the survey AutoCAD file.
- → Scope assumes major structural rehabilitation or full structure replacement is not anticipated.
- → Geotechnical explorations/recommendations and potholing is not included.

## TASK 3. FINAL DESIGN

Woodard & Curran will prepare the final design Contract Documents in accordance with IRWD requirements outlined below for the project manual and construction plans.

IRWD's construction manual will be referred to in the contract documents.

- → Project Manual: Woodard & Curran will prepare a Project Manual in standard IRWD format for the Contract Documents. IRWD's front end documents will be utilized, and Woodard & Curran will assess IRWD's documents to determine any needed supplemental special provisions that should be added to comply with IRWD's general provisions and front-end requirements. The Project Manual will describe the work, the allowable shutdown durations and sequencing associated with any connections and tie-ins to existing IRWD facilities. The Project Manual will also include the IRWD General Technical Specifications, modifications thereto, and any project specific technical specifications. Woodard & Curran will prepare the Project Manual in standard IRWD format using the Project Manual template provided by IRWD in Microsoft Word format. Woodard & Curran will provide a PDF file of the bidding documents in 8-1/2 x 11-inch format.
- → IRWD Construction Manual: IRWD has also developed and periodically updates its IRWD Construction Manual, which contains General Technical Specifications and Standard Drawings for use in the preparation of plan and project technical specifications. This manual will be referred to in the Contract Documents.
- → Construction Plans: Woodard & Curran will prepare detailed construction drawings in the latest version of AutoCAD using NCS V4.0 layering standards, on 24-inch x 36-inch sheets utilizing IRWD's standard border template. Plans will be prepared in AutoCAD. The improvement plans will include a site plan, sheet index/location map/ legend, general notes, index map, plans and profiles of the pipeline improvements, abandonment of existing pipes, notes and details, bypass plan, access improvements and construction sequencing, and all details necessary for the construction of the improvements. The list of sheets anticipated for the project, and included for each submittal is indicated below:

| Sheet<br>No. | Title  | 60% | 90%,<br>100%,<br>Final |
|--------------|--|-----|------------------------|
| 1            | Title Sheet  | х   | Х                      |
| 2            | Sheet Index and Vicinity Map   | ×   | Х                      |
| 3            | Legend, General Notes, Sewer Notes, and Construction Notes                                 | ×   | Х                      |
| 4            | Abbreviations, Symbols, Standard Drawing List, and Legend                                  | X   | Х                      |
| 5            | Siphon S1 Site and Construction Access Plan  | ×   | Х                      |
| 6            | Siphon S1 Site and Access Improvements Plan  | X   | Х                      |
| 7            | Siphon S1 Upstream Structure Demo, Rehabilitation and Flow Control Plan and Sections       | X   | Х                      |
| 8            | Siphon S1 Downstream Structure Demo, Rehabilitation and Flow Control Plans and Sections    | X   | Х                      |
| 9            | Siphon S1 Grit Trap Plan   | ×   | Х                      |
| 10           | Siphon S1 Barrel Cleaning and CIPP Lining Plan and Section                                 | ×   | Х                      |
| 11           | Siphon S3 Site and Construction Access Plan  | ×   | Х                      |
| 12           | Siphon S3 Site and Access Improvements Plan  | Х   | Х                      |
| 13           | Siphon S3 Upstream Structure Demo, Rehabilitation and Flow Control Plan and Sections       | ×   | Х                      |
| 14           | Siphon S3 Downstream Structure Demo, Rehabilitation and Flow Control Plans and Sections    | ×   | Х                      |
| 15           | Siphon S3 Grit Trap Plan   | Х   | Х                      |
| 16           | Siphon S3 Barrel Cleaning and CIPP Lining Plan and Section                                 | ×   | Х                      |
| 17           | Siphon S5 Site and Access Improvements Plan  | ×   | Х                      |
| 18           | Siphon S5 Upstream Structure Demo, Rehabilitation and Flow<br>Control Plan and Sections    | ×   | Х                      |
| 19           | Siphon S5 Downstream Structure Demo, Rehabilitation and Flow<br>Control Plans and Sections | ×   | Х                      |
| 20           | Siphon S5 Barrel Cleaning and CIPP Lining Plan and Section                                 | ×   | Х                      |
| 21           | Siphon S8 Site and Construction Access Plan  | Х   | Х                      |

| Sheet<br>No. | Title  | 60% | 90%,<br>100%,<br>Final |
|--------------|--|-----|------------------------|
| 22           | Siphon S8 Site and Access Improvements Plan  | Х   | Х                      |
| 23           | Siphon S8 Upstream Structure Demo, Rehabilitation and Flow Control Plan and Sections       | Х   | Х                      |
| 24           | Siphon S8 Downstream Structure Demo, Rehabilitation and Flow Control Plans and Sections    | Х   | Х                      |
| 25           | Siphon S8 Barrel Cleaning and CIPP Lining Plan and Section                                 | Х   | Х                      |
| 26           | Siphon S9 Site and Construction Access Plan  | X   | Х                      |
| 27           | Siphon S9 Site and Access Improvements Plan  | ×   | Х                      |
| 28           | Siphon S9 Upstream Structure Demo, Rehabilitation and Flow<br>Control Plan and Sections    | Х   | Х                      |
| 29           | Siphon S9 Downstream Structure Demo, Rehabilitation and Flow<br>Control Plans and Sections | Х   | Х                      |
| 30           | Siphon S9 Grit Trap Plan   | Х   | Х                      |
| 31           | Siphon S9 Barrel Cleaning and CIPP Lining Plan and Section                                 | Х   | Х                      |
| 32           | Siphon S16 Site and Construction Access Plan   | Х   | Х                      |
| 33           | Siphon S16 site and Access Improvements Plan   | х   | х                      |
| 34           | Siphon S16 Upstream Structure Demo, Rehabilitation and Flow Control Plan and Sections      | Х   | Х                      |
| 35           | Siphon S16 Downstream Structure Demo, Rehabilitation and Flow Control Plans and Sections   | х   | х                      |
| 36           | Siphon S16 Grit Trap Plan  | Х   | Х                      |
| 37           | Siphon S16 Barrel Cleaning and CIPP Lining Plan and Section                                | Х   | х                      |
| 38           | Siphon S18 Site and Access Improvements Plan   | Х   | Х                      |
| 39           | Siphon S18 Upstream Structure Demo, Rehabilitation and Flow Control Plan and Sections      | Х   | х                      |
| 40           | Siphon S18 Downstream Structure Demo, Rehabilitation and Flow Control Plans and Sections   | X   | Х                      |
| 41           | Siphon S18 Grit Trap Plan  | Х   | х                      |
| 42           | Siphon S18 Barrel Cleaning and CIPP Lining Plan and Section                                | Х   | Х                      |

| Sheet<br>No. | Title   | 60% | 90%,<br>100%,<br>Final |
|--------------|---|-----|------------------------|
| 43           | Siphon S1 Air Jumper Plan and Profile                         | ×   | Х                      |
| 44           | General Civil/Rehabilitation Details 1                        | Х   | Х                      |
| 45           | General Civil/Rehabilitation Details 2                        | Х   | Х                      |
| 46           | General Civil/Rehabilitation Details 3                        | Х   | Х                      |
| 47           | General Civil/Rehabilitation Details 4                        | Х   | Х                      |
| 48           | General Civil/Rehabilitation Details 5                        |     | Х                      |
| 49           | General Civil/Rehabilitation Details 6                        |     | Х                      |
| 50           | General Civil/Rehabilitation Details 7                        |     | Х                      |
| 51           | Structural Notes  | ×   | X                      |
| 52           | Structural Details 1  | Х   | Х                      |
| 53           | Structural Details 2  | ×   | Х                      |
| 54           | Structural Details 3  | ×   | Х                      |
| 55           | Structural Details 4  |     | Х                      |
| 56           | Structural Details 5  |     | Х                      |
| 57           | Siphon S1 San Diego Creek Trail Bikeway Diversion Plan        | Х   | Х                      |
| 58 - 60      | Siphon S3 Traffic Control Plans                               | ×   | Х                      |
| 61 - 66      | Siphon S5 Traffic Control Plans                               | ×   | Х                      |
| 67           | Siphon S8 San Diego Creek Trail Bikeway Diversion Plan        | ×   | Х                      |
| 68           | Siphon S9 San Diego Creek Trail Bikeway Diversion Plan        | ×   | Х                      |
| 69           | Siphon S16 Bonita Creek Bikeway and Pedestrian Diversion Plan | ×   | Х                      |
| 70 - 77      | Siphon S18 Traffic Control Plans                              | ×   | х                      |

### **Task 3.1 Final Design Plans**

The final design covers the 60%, 90%, 100% and final design submittals. Throughout final design, Woodard & Curran will continue to regularly meet with IRWD to discuss the project and integrate any responses into the next project milestone. The 90% submittal will be a substantially complete and biddable construction set, pending any unresolved questions or items for IRWD staff discussion. The 100% design submittal will be a biddable, buildable design submittal for final IRWD approval.

Woodard & Curran will preview each plan submittal with IRWD staff in a virtual preview meeting. Improvement plans will be submitted and transmitted via email (PDF file) to IRWD for review at the 60%, 90%, 100% and final design completion levels according to the following guidelines:

- → 60% Draft: Woodard & Curran will provide a searchable PDF file of the plan set and will show right-of-way, easements, construction notes and major details. The design set will include all sheets, plan and profile, and sections/details for major items. Key maps, location maps, station numbers, and general notes will be included in the plans including civil/site, demolition, mechanical, structural, rehabilitation, bypass/diversion, and traffic control plans. It will include basic mechanical equipment, structural layouts, pipeline alignments, preliminary profiles, and existing utilities at a minimum. We will provide a complete table of contents for the Project Manual. The project manual will include all sections including any project specific specifications sections or modifications to the IRWD General Technical Specifications Sections and relevant City standards or specifications. Woodard & Curran will provide a single searchable PDF file of the 60-percent Project Manual. An opinion of probable construction cost will be provided. All deliverables will be QA/QC'd by our internal QA/QC Team.
- → 90%: Woodard & Curran will provide a searchable PDF file of the entire plan set. The plan set will show all design elements including traffic control plans, be QA/QC'd by our internal QA/QC Team, and include revisions per IRWD, City of Irvine, City of Newport Beach and other agencies' comments. Woodard & Curran will provide a single searchable PDF file of the 90-percent Project Manual. An updated opinion of probable construction cost will be provided. All deliverables will be QA/QC'd by our internal QA/QC Team.
- → 100% submittal: Woodard & Curran will provide a searchable PDF file of the entire plan set. Woodard & Curran will provide a single searchable PDF file of the 100-percent Project Manual. An updated opinion of probable construction cost will be provided. All deliverables will be QA/QC'd by our internal QA/QC Team.
- → Final Design Deliverable: Woodard & Curran will provide one full size, final set of plans in a single PDF with the Engineer's electronic stamp and signature, including IRWD's signatures on the design sheets. Woodard & Curran will provide a single searchable PDF file of the Project Manual including the Engineer's electronic stamp and signature on the signature page. This submittal will be backchecked for inclusion of all previous comments prior to adding the Executive Director's electronic signature on the cover sheets of the plans and Project Manual. Once the submittal is reviewed and signed by IRWD, Woodard & Curran will provide AutoCAD files for the entire plan set and Microsoft Word files used in the preparation of the Project Manual. An updated opinion of probable construction cost will be provided. All deliverables will be QA/QC'd by our internal QA/QC Team.

## **Task 3.2 Project Manual**

Woodard & Curran will prepare the project manual in accordance with IRWD requirements previously outlined. Woodard & Curran will assist in calculating liquidated damages value for the project should the contract time be exceeded. IRWD's standard liquidated damage calculation form will be provided.

## **Task 3.3 Opinion of Probable Construction Cost**

Woodard & Curran will prepare a detailed and itemized opinion of probable construction cost for the proposed facilities for submission with each of the design deliverables. The Opinion of Probable Construction cost will be formatted the same as the Schedule of Work included in the Bid Documents section of the Project Manual.

## **Task 3.4 Permits**

Woodard & Curran will identify required permits and their controlling agencies including the City of Irvine, City of Newport Beach and County of Orange. Woodard & Curran will apply for and secure approval of the required permits. Copies of permit conditions will be inserted in the Project Manual's Appendix. IRWD will pay all permit fees directly to the agency.

### **Task 3.5 CEQA Documentation Support**

Woodard & Curran will provide necessary project information, maps or exhibits to assist IRWD in preparing the CEQA documentation for the project including project description details and construction and operational specifics such as estimates of area affected by construction, equipment used for construction, or estimates of construction vehicle trips.

#### **Task 3 Deliverables:**

- → 60% Design Drawings, Project Manual, Engineer's Estimate and Schedule (pdf electronic copies)
- → 90% Design Drawings, Project Manual, Engineer's Estimate and Schedule (pdf electronic copies)
- → 100% Design Drawings, Project Manual, Engineer's Estimate and Schedule (pdf electronic copies)
- → Final Bid Design Drawings, Project Manual, Engineer's Estimate and Schedule (electronic copies in PDF, AutoCAD and Microsoft Word files)

#### Task 3 Assumptions:

- → IRWD will be responsible for producing and distributing Bid Documents and maintaining a plan holders list
- → Construction phase support is not included; however, we can provide these services at a negotiated scope and fee.
- $\rightarrow$  A single bid package will be provided.
- → Final design duration is estimated to be approximately 6 months. Delays beyond the reasonable control of Woodard & Curran may result in additional project management costs.
- $\rightarrow$  CEQA support is limited only to providing engineering and planning exhibits.
- $\rightarrow$  No public outreach is provided as part of this fee estimate.
- → Excludes electrical and Instrumentation plans. If proposed automatic chemical dosing systems are required, the number of which will be determined in preliminary design and included in separate scope and fee.

→ Permitting fee assumes effort include encroachment permit for City of Irvine, and City of Newport Beach, and Orange County Flood Control District. Fees to be paid by IRWD.

## Task 4. ADDENDA PREPARATION and PRE-BID MEETING

During the bidding period, Woodard & Curran will assist with providing information and clarification of bid documents to prospective bidders. This will include the preparation of three addendums for bidding, including revisions to the design plans and specifications and assistance with addressing bidder questions. This includes the following budgeted hours:

- **1. Plan Revisions:** Woodard & Curran has budgeted twenty-four (24) hours for plan revisions to the construction drawings.
- **2. Specification Revisions:** Woodard & Curran has budgeted twenty-four (24) hours for revisions or additions to the project specifications.
- **3. Bidder Questions:** Woodard & Curran has budgeted twenty-four (24) hours to address and respond to bidder questions.
- **4. Pre-Bid Meeting:** During the bidding period, Woodard & Curran will attend a two-hour pre-bid meeting. This may include a site visit with potential bidding contractors.

# Task 5. Siphon Barrel, Cleaning, Dewatering, and CCTV Inspection (Optional Task)

If approved by IRWD to perform siphon barrel cleaning, dewatering, and CCTV inspection after the completion of the PDR, Woodard & Curran will retain its subconsultant, National Plant Services, to perform cleaning, dewatering, and CCTV inspection of the 15 siphon barrels. National Plant Services is appropriately licensed with the necessary capabilities and experience to perform siphon barrel inspections, including installation of flow-through plugs to isolate individual siphon barrels. Woodard & Curran will coordinate the inspection work and perform quality review of the inspection data deliverables submitted by National Plant prior to demobilizing from a siphon site. Woodard & Curran will use the inspection data collected to assess the condition of the siphon barrels and provide rehabilitation recommendations (CIPP lining or spot repairs). The rehabilitation recommendations would be incorporated into the final design bid items. The inspection data reports would be included as an appendix to the Project Manual.

#### Task 5 Deliverables:

- → Cleaning Log with volume of debris removed
- → PACP Coded CCTV Videos in MPEG4
- → PACP database
- → PACP Reports in PDF

## Task 5 Assumptions:

- → Access points must be accessible, and a minimum of 24" in diameter, with no benches that will prevent installation of flow through plugs.
- → Disposal bin staging site to be provided by IRWD
- → Assumes no discharge permit required to decant wash water
- $\rightarrow$  Water Source must be in the vicinity of each siphon.



# B. Team

Engineering Design Services for the Sewer Siphon Improvements Phase II



## B | Team

Our staff are specialists in their fields, offering in-depth understanding of cutting-edge technology, astute problem solving, multidisciplinary engineering, and expert regulatory guidance. Woodard & Curran has over 1160 highly-qualified professionals from 27 office locations across the United States, including seven offices in California. We have successfully assisted many southern California cities and agencies in implementing sewer design projects.

The team members shown in the organizational chart below have provided design of sewer improvements for IRWD and other agencies, including Orange County Sanitation District, City of Anaheim, City of Malibu, Padre Dam Municipal Water District, City of Santa

Clara, City of San Jose and many more. Our team members' have a thorough understanding of the unique challenges associated with the Sewer Siphon Improvement Projects having completed the Phase I project which will make this project a long-term success for IRWD.





**Mirko Maher, PE** | Project Manager (Laguna Hills, CA) Mirko has 24 years of experience in planning, design, and construction management of water and wastewater pipelines and pump stations. Mirko has managed planning design teams from preliminary and planning through bid package work products, resulting in successful construction with minimal change orders. He takes pride in finding solutions to provide best methods of pipeline construction and rehabilitation to provide cost and construction efficiencies while

reducing owner risks. Mirko is familiar with IRWD requirements and is currently project manager for the IRWD Sewer Relocation in SD Creek near SR133, was QA/QC reviewer for the IRWD Woods sewer Access Improvements Study and is project manager for the Anaheim Broadway Sewer Siphon Improvement project.



**Kathleen Higgins, PE** | Principal-in-Charge (Laguna Hills, CA) Kathleen has over 30 years of experience leading a variety of water projects including sewer and water design and management, BMP analysis and design, and preparation of final design plans for water and sewer systems. She has served as principal-in-charge and project manager on a variety of projects throughout Southern California including IRWD's Sewer Siphon Improvements Project Phase I and The Woods Sewer Study. Kathleen will be responsible to ensure that the

right staff are committed to the project and that IRWD's needs are met. She will also assist in resolving any issues on the project, should they arise.



**Glenn Hermanson, PE |** Technical Advisor (Sacramento, CA) Glenn's 32 years of experience with infrastructure engineering have provided him with significant expertise in trenchless technologies and genuine enthusiasm working on sewer projects, pipeline condition assessment, rehabilitation, and design. His experience includes projects that minimize disturbance to residents and businesses, reduce risk, and save costs. Glenn's experience has focused on sewer facilities evaluation, hydraulic analysis, pipeline rehabilitation, condition

assessment, and design and construction of sewer improvements. He has completed more than 13 sewer condition assessment projects, including over 43 miles of pipeline and evaluation of over 30 sewer siphons. Glenn's work includes analysis and design of the IRWD Sewer Siphon Improvements project and the Anaheim Broadway Sewer Siphon Improvement project.



30% of time on Project

**Justin Kraetsch, PE** | Project Engineer (Laguna Hills, CA) Justin's 7 years of experience in sewer infrastructure design and construction management includes predesign, final design, and trenchless feasibility studies of pipeline projects. Justin has served as the Project Engineer on several pipeline design projects and is experienced in construction plan preparation using AutoCAD, development of technical specifications, and construction cost estimates. He was the project engineer responsible for the preparation

of final design construction plans, specifications, and cost estimates for the IRWD Sewer Siphon Improvements project and is the project engineer for the Anaheim Broadway Sewer Siphon Improvement project.



3% of time on Project

## Jen Glynn, PE | QA/QC (Sacramento, CA)

Jennifer has 27 years of experience specializing in pipeline condition assessment, alternatives analysis, and rehabilitation design in both congested urban areas; and highly sensitive environmentally impacted locations involving various lining methods, as well as pipe bursting and conventional open-cut replacement techniques. She has assessed and designed more than 100 miles of pipeline ranging in size from 2-inches to 96-inches in diameter. Jennifer successfully manages projects from

conception to completion, many of which required special attention to sensitive issues, including endangered species habitat preservation. Jennifer is a recognized expert in the

field of trenchless technology and focuses on using the most advanced technologies in the field. Jen provided QA/QC of the IRWD Sewer Siphon Improvements Project.



**Oliver Saeby, PE** | Design Engineer (Laguna Hills, CA) Oliver's water-related project experience includes sewer infrastructure design and facility site layout, wastewater operations analysis, and cost estimating. He was the design engineer for IRWD's sewer Siphon Improvement Project and has focused on sewer infrastructure planning for the Town of Somers, NY, and Coachella Valley Water District, and planning and execution support services for Encina Wastewater Authority.



**Cathy Greenman, PE |** Modeling (Home Office, CA) Cathy specializes in wastewater collection system planning and hydraulic modeling projects. She has over 20 years' experience with numerous hydraulic modeling software, including InfoSWMM, InfoWorks, MIKE URBAN, H2OMap, and EPA SWMM 5, and is skilled in data analysis and report writing. Cathy has worked on modeling projects for OC SAN, City of Santa Ana, City of San Diego, City of Escondido, City of Pomona and many others.



## **Tom Scalese, PE |** Structural Engineer (Montana)

Tom is a Professional Engineer with over 12 years of experience in structural engineering. His experience includes municipal wastewater design, industrial steel and concrete design, cast in place concrete tankage and temporary shoring. Tom is experienced with both new construction, structural evaluation, and reinforcing existing structures. His design proficiencies consist of classical approximations, computer aided analysis, and 3D modeling. His project experience includes both

small and large projects for municipal, state, and private clients throughout the country. He was the structural engineer for the IRWD Sewer Siphon Improvements Project.

## Subconsultants

## **V&A** Consulting Engineers

V&A Consulting Engineers, Inc. (V&A) provides water, wastewater and transit agencies with specialized engineering solutions to combat the effects of aging infrastructure. They have been supporting our clients since 1979 with corrosion engineering services, field-based condition assessments, coating systems management, collection system flow monitoring and odor control solutions. Corrosion Engineering has earned V&A a national reputation as a company providing comprehensive and specialized services to assist owners in assessing and maintaining infrastructure assets.

## **National Plant Services**

National Plant Services (NPS) has been active in the sewer maintenance business for 40 years and have an experienced and dedicated staff that will make this project a success. They have significant experience in all aspects of siphon and sewer system inspection,

maintenance, and rehabilitation, which has made them true Sewer Experts. The NPS team is experienced in working on dozens of large and complex projects each year, and have developed a seamless way to plan, schedule, inspect, and analyze all work in scope.

## **Calvada Surveying**

Calvada Surveying was established in 1989 by Armando DuPont, PLS and maintains a company headquarters in Corona, California. The firm's long-standing philosophy has been to utilize the most advanced surveying technology available to produce highly accurate results for our clients and set the standard for excellence within the surveying industry. Because of this, they have developed an outstanding reputation for providing timely, high-quality service to cities and agencies throughout California.

## **Traffic Control Engineering**

Traffic Control Engineering, Inc. was organized on January 25, 1989 and specializes in preparing traffic control plans and detour plans for construction work in or about public streets, conducting traffic impact studies and alternative alignment evaluation for construction of various underground utility lines, and preparing traffic control plans for special events. Mr. David Kuan, PE, principal of the firm, has extensive working experience with both public and private sectors. Since its inception, the Firm has prepared traffic control plans for thousands of different projects, ranging from street improvements, storm drains, sewer lines, water/reclaimed water pipelines, drilling excavations, raised median land-scaping, bus bays, oil pipelines, soundwalls, freeway widening, utility pipelines, fiber optic conduits, bike ride design and special event planning.



# C. Experience

Engineering Design Services for the Sewer Siphon Improvements Phase II



# C | Experience

Woodard & Curran's engineers are experts in the analysis and design of sewer infrastructure projects and are nationally recognized in the water/wastewater industry. We prepare high-quality and cost-effective designs that result in facilities that are easy-to-operate and maintain. In achieving a successful project, our design engineers identify key issues early on and work with our client's engineers and operations staff to identify their preferences and design standards. Woodard & Curran is familiar with IRWD preferences and design standards having worked on recent IRWD projects including the Sewer Siphon Improvements Phase I project and the Woods Sewer Improvements Study.

## **Representative Projects**

The following table lists representative projects completed by our firm highlighting key requirements similar to this project. Following the table are selected detailed project descriptions and references.

| Client/Project  | SS Hydraulic<br>Assessment | Sewer Condition<br>Assessment | Sewer Infrastructure<br>Rehab | SS Prelim/Final Design | SS Cleaning/CCTV |
|---|----------------------------|-------------------------------|-------------------------------|------------------------|------------------|
| IRWD Sewer Siphon Improvements Phase 1                  | ~                          | $\checkmark$                  | $\checkmark$                  | $\checkmark$           | $\checkmark$     |
| Anaheim/Broadway Sewer Siphon Rehabilitation Design     | $\checkmark$               |                               | $\checkmark$                  | $\checkmark$           |                  |
| Santa Rosa Master Plan and Condition Assessment         | $\checkmark$               | $\checkmark$                  |                               |                        | $\checkmark$     |
| Padre Dam Inverted Siphon Assessment                    | $\checkmark$               | $\checkmark$                  |                               |                        | $\checkmark$     |
| Santa Clara Guadalupe Siphon Rehabilitation             | $\checkmark$               |                               | $\checkmark$                  | $\checkmark$           |                  |
| Santa Clara Trimble Road Rehabilitation                 | $\checkmark$               | $\checkmark$                  | $\checkmark$                  | $\checkmark$           |                  |
| Santa Clara Walsh Trunk Sewer                           | $\checkmark$               | $\checkmark$                  | $\checkmark$                  | $\checkmark$           | $\checkmark$     |
| San Jose Sanitary Sewer Master Plan and Siphon Analysis | $\checkmark$               | $\checkmark$                  | $\checkmark$                  | $\checkmark$           | $\checkmark$     |
| Eastern MWD Flow Monitoring & Model Calibration         | $\checkmark$               | $\checkmark$                  | $\checkmark$                  |                        |                  |
| EBMUD Data Assessment and Modeling Project              | $\checkmark$               | $\checkmark$                  | $\checkmark$                  |                        |                  |
| OCSD Newhope-Placentia Trunk Replacement                | $\checkmark$               | $\checkmark$                  | $\checkmark$                  |                        | $\checkmark$     |
| OCSD Western Region Rehabilitation Study                | $\checkmark$               | $\checkmark$                  |                               |                        |                  |
| OCSD Collection System Capacity Study                   | $\checkmark$               | $\checkmark$                  | $\checkmark$                  | $\checkmark$           |                  |
| San Jose Sanitary Sewer Master Plan and Siphon Analysis | ~                          | $\checkmark$                  | $\checkmark$                  |                        |                  |
| Santa Ana Sewer and Condition Assessment Master Plan    | $\checkmark$               | $\checkmark$                  |                               |                        |                  |
| SAWPA Inland Empire Brine Line                          | ~                          | $\checkmark$                  | $\checkmark$                  |                        |                  |
| Stockton Tuxedo Avenue Sewer                            | $\checkmark$               | $\checkmark$                  | $\checkmark$                  | $\checkmark$           |                  |



## **Irvine Ranch Sewer Siphon Improvements**

Phase 1 | Irvine Ranch Water District

Reference: Malcolm Cortez, Principal Engineer, Irvine Ranch Water District; 949.453.5854, cortez@irwd.com
 Completion Date: 2019 (Design Completion); 2022 (Construction Completion)
 Design Fee: \$629,000 Construction Cost: \$8.5M
 Team Members Involved: Kathleen Higgins, Glenn Hermanson, Jennifer Glynn, Justin Kraetsch, Oliver Saeby

# Provided condition assessment, analysis, and rehabilitation design of the four most critical sewer siphons within IRWD's system.

IRWD completed a preliminary assessment of 19 inverted sewer siphons. Woodard & Curran was retained to design improvements to four of the siphons. The purpose of the Project was to design and construct improvements to increase the reliability and operability. The siphons are located near high traffic residential and commercial properties which require a high level of consideration during design to minimize interruption to the property occupants during construction. The Project also required easement and permitting coordination with the City of Irvine, County of Orange, Southern California Regional Rail Authority, the City of Tustin and various utility agencies. Traffic control plans were developed for work in accordance with local jurisdictional requirements as part of the permit approval process.

## **Project Highlights:**

- → Four critical sewer siphons, aging and blocked with debris
- → Hydraulic/capacity evaluation
- → Inlet/outlet structures condition assessment
- → IRWD design and specifications
- → Agency permits and coordination
- → Cleaning, CCTV, and cured-in-place pipe (CIPP) lining specifications



## Magnolia & Broadway Sanitary Sewer

## **Improvements** | City of Anaheim

**Reference:** Lori Ishigo, Associate Engineer, City of Anaheim; 714.765.5268; lishigo@anaheim.net

Completion Date: 2022 (Design Completion); 2023 (Construction Completion)

Design Fee: \$153,000 Construction Cost: \$600,000

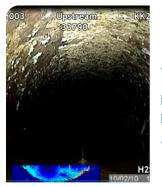
**Team Members Involved:** Kathleen Higgins, Mirko Maher, Glenn Hermanson, Jennifer Glynn, Justin Kraetsch

## Woodard & Curran provided design services for a broken siphon in the City's system.

Woodard & Curran was selected to provide design services for a high-priority sewer improvement project that addresses a broken 8-inch diameter inverted sewer siphon crossing underneath a 93-inch diameter concrete storm drain in the City of Anaheim's Broadway collection system. Woodard & Curran evaluated improvement alternatives consisting of repairing the broken siphon, construction of a new siphon, and constructing a new gravity sewer line to replace the siphon. The preliminary design report and final design plans, specifications, and cost estimates were developed for the recommended improvements. The critical components of the design include construction of a new 8-inch VCP sewer underneath the large 93-inch storm, minimizing sewer service interruptions, traffic control, and utility coordination. The final design is scheduled to be completed in August 2022 and construction in January 2023.

#### **Project Highlights:**

- → Challenging clearances between pipes at utility crossings
- → Fast track schedule
- → Rehabilitating a broken siphon



## Master Plan and Condition Assessment of Siphons | City of Santa Rosa

Reference: Jason Roberts, Supervising Engineer, City of Santa Rosa; 707.543.3857
 Completion Date: 2022
 Fee: \$2.5M

**Team Members Involved:** Jen Glynn, Glenn Hermanson, Justin Kraetsch

## Woodard & Curran provided inspection for 32 siphons in the City's system.

The large diameter trunk sewer network and siphons are some of the most critical components of the City of Santa Rosa's sanitary sewer system. As part of this overall master planning project, Woodard & Curran was selected to provide inspection planning, inspection, condition assessment, remaining useful life predications, and project prioritization for 13 miles of trunk sewer ranging in sizes from 33 - 66" in diameter. In addition, we provided inspection for 32 siphons in the City's system. Inspections of the trunk sewer and siphons were conducted using a combination of CCTV and sonar.

Inspection challenges included high peak daily water levels, depth of sediment, flow velocities, and location and access for inspection equipment as a majority of the trunk sewers are located in easements outside of the public right-of-way. In addition, we conducted man-entry inspections and physical testing at nine large structures along the trunk sewer system. Once the condition of the assets was determined, we then determined remaining useful life projections, and projects were identified and prioritized. A cost estimate for each identified project was provided. We leveraged our experience and industry knowledge to select appropriate rehabilitation solutions that balanced correctly addressing pipe condition, assuring constructability, minimizing permitting, and maximizing the use of the City's available budget. The City used these recommendations to develop a CIP for future maintenance and repairs of their trunk sewer system.

### **Project Highlights:**

- → Condition assessment and inspection of 32 siphons
- → Rehabilitation solutions identified
- → Operations and maintenance considerations for long term success



## **Inverted Siphon Capacity and Condition**

Assessment | Padre Dam Municipal Water District (PDMWD)

 Reference: Seval Sen, Engineer, Padre Dam Municipal Water District; 619.258.4631
 Completion Date: 2018
 Fee: \$148,000
 Team Members Involved: Jen Glynn, Glenn Hermanson

Woodard & Curran conducted capacity and condition assessment for this trunk pipeline, a double barrel inverted siphon that crosses under the San Diego River. The inverted siphons are 16-inch and 14-inch DIP.

Woodard & Curran provided condition and capacity assessment of an inverted siphon (built in 1975) under the San Diego River. Approximately 1,800 lineal feet of asbestos cement pipe with ductile iron pipe transitions, inspection, cleaning and maintenance of the siphon was challenging due to the system's characteristics; moreover, PDMWD wanted a firm understanding of the condition and capacity of the infrastructure for upcoming projects. Services included flow monitoring, hydraulic modeling, and preparation of a Condition Assessment Work Plan to assess the overall condition and remaining useful life of the siphon system. Work included installation of flow monitoring equipment on the siphons and obtained flow monitoring data on each siphon for a two-week period per siphon.

### **Project Highlights:**

- → Condition assessment and inspection of two inverted siphons
- → Hydraulic modeling
- → Operations and maintenance considerations for long term success



## Guadalupe Siphon Rehabilitation | City of

Santa Clara
Reference: Falguni Amin, Principal Engineer, City of Santa Clara; 408.615.3015
Completion Date:2013
Design Fee: \$44,000
Team Members Involved: Glenn Hermanson, Jen Glynn, Cathy Greenman

## Design was completed on a 14-day fast-track schedule.

Woodard & Curran designed the rehabilitation improvements to two siphons under the Guadalupe River. The design included CIPP rehabilitation of two parallel 24-inch siphon pipes and two parallel 15-inch diameter siphon pipes. Prior to finalizing the siphon designs, we performed a hydraulic analysis on the operations of the siphons which determined the elevation of the weir boards that were then placed in front of two pipelines. The dry weather

flow was conveyed in two barrels which reduced odors and sediment deposition and then during a wet weather event the higher flows would overtop the weirs and be conveyed in all four barrels. The calculated surcharge had minor impacts upstream. Woodard & Curran overcame the challenges of accessing private property for critical construction activities by anticipating and applying for an encroachment permit since Guadalupe River and its levees are within SCVWD's right-of-way.

### **Project Highlights:**

- → Design and rehabilitation of two siphons
- → Hydraulic modeling
- → Fast-track schedule



# Trimble Road Sanitary Sewer Rehabilitation |

City of Santa Clara

**Reference:** Falguni Amin, Principal Engineer, City of Santa Clara; 408.615.3015

**Completion Date:** 2013 (Design Completion); 2016 (Construction Completion)

Design Fee: \$479,000 Construction Cost: 8.6M

**Team Members Involved:** Glenn Hermanson, Cathy Greenman

# Design included the rehabilitation of two inverted siphon, one air jumper, and one grit trap.

After performing an alternatives analysis, Woodard & Curran provided design for rehabilitation of existing 33-inch and 48-inch sections of a gravity sanitary sewer trunk for Santa Clara. The project had two siphons. One siphon crossed under Highway 101 and the second siphon crossed under a lager storm drain culvert. Both siphons were rehabbed using cured-in-place pipe. The air jumper on the second siphon was inspected during the predesign phase and rehabbed using cured-in-place pipe. Woodard & Curran designed a grit trap upstream of these siphons to decrease the amount of sediment that will be trapped in the siphons. The grit trap has been on-line for 4 years and the City's maintenance crews are very happy with its performance. One of the major components of the project was 4,440 feet of 48-inch CIPP and the bypass pumping plans necessary to support this work.

#### **Project Highlights:**

- → Design and rehabilitation of two inverted siphons
- → Bypass pumping and CIPP lining
- → Operations and maintenance considerations for long term success included installation of a Grit trap.



# Walsh Avenue Trunk Sewer | City of Santa

Clara

**Reference:** Falguni Amin, Principal Engineer, City of Santa Clara; 408.615.3015

**Completion Date:** 2012

Design Fee: \$1.3M Construction Cost: \$8.2M

**Team Members Involved:** Glenn Hermanson, Jennifer Glynn

## Design included a new inverted siphon across San Tomas Aquino Creek.

The Walsh Avenue Trunk Sewer Improvements Project consisted of a feasibility study/ preliminary design, final design, and construction support services for new 30-inch sanitary sewer improvements along Walsh Avenue. The critical crossing for this project was the inverted siphon under San Tomas Aquino Creek. Our design was a two barrel design (18-inches each) with a 28-inch air jumper. The pipe material selected for the siphon and air jumper was HDPE to eliminate the potential for future corrosion. A grit trap was constructed upstream of the siphon to capture large grit particles. The siphon has been on-line since 2012. Maintenance crews empty the grit trap every 6-months. Tasks for the project included mapping and surveying, permitting, feasibility study, preliminary design, 65% design, 95% design, preparation of bid documents, bid phase services, construction phase services, and project close-out.

### **Project Highlights:**

- → Preliminary design and final design of new inverted siphon
- → Permitting and agency coordination
- → Operations and maintenance considerations for long term success included installation of a Grit trap.



# D. Schedule

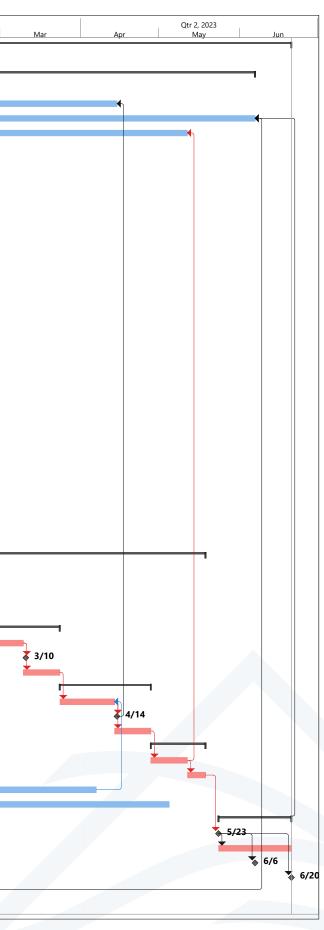
Engineering Design Services for the Sewer Siphon Improvements Phase II



# D | Schedule

Presented on the following page is Woodard & Curran's schedule for the project. The scope of work, provided in Section 1 of our proposal, was applied to the development of this detailed project schedule. The major tasks and subtasks from the scope of work, including IRWD review time after submittals, are included herein.

| ID       | Task Name   | Duration         | Start                      | Finish       | Qtr 3, 2022         Qtr 4, 2022         Qtr 1, 2023           Jul         Aug         Sep         Oct         Nov         Dec         Jan         Feb |
|----------|---|------------------|----------------------------|--------------|---|
| 1        | Sewer Siphon Improvements Phase II  | 50.2 wks         | Tue 7/5/22                 | Tue 6/20/23  |   |
| 2        | Notice to Proceed   | 0 days           | Tue 7/5/22                 | Tue 7/5/22   | <u>∼7/5</u>   |
| 3        | TASK 1: PROJECT MANAGEMENT  | 48 wks           | Wed 7/6/22                 | Tue 6/6/23   |   |
| 4        | Kickoff Meeting/Site Meeting  | 0 days           | Tue 7/19/22                | Tue 7/19/22  | 🎠 7/19  |
| 5        | 1.1 Meetings (Kickoff and Design Workshops)                                 | 9.7 mons         | Tue 7/19/22                | Fri 4/14/23  |   |
| 6        | 1.2 - 1.3 Coordination & Invoicing  | 12 mons          | Wed 7/6/22                 | Tue 6/6/23   |   |
| 7        | 1.4 QA/QC Plan  | 10.5 mor         | Fri 7/22/22                | Thu 5/11/23  |   |
| 8        | TASK 2: PRELIMINARY DESIGN  | 19.4 wks         | Wed 7/6/22                 | Thu 11/17/22 | 1   |
| 9        | 2.1 Data Collection and Review, Utility Info,<br>Topographic Survey & LiDAR | 7.2 wks          | Wed 7/6/22                 | Wed 8/24/22  |   |
| 10       | Data & Utility Requests and Review  | 4 wks            | Wed 7/6/22                 | Tue 8/2/22   |   |
| 11       | Topographic Survey - Field Survey & Mapping                                 | 5 wks            | Thu 7/21/22                | Wed 8/24/22  |   |
| 12       | LiDAR / 3D Scanning   | 3 wks            | Tue 7/26/22                | Mon 8/15/22  |   |
| 13       | 2.2 Condition Assessment  | 11 wks           | Tue 7/12/22                | Mon 9/26/22  |   |
| 14       | Encroach. Permits - Testing & Flow Meters                                   | 2 wks            | Tue 7/12/22                | Mon 7/25/22  |   |
| 15       | Work Plan Development and Review  | 2 wks            | Tue 7/12/22                | Mon 7/25/22  |   |
| 16       | Condition Assessment Field Testing  | 3 wks            | Tue 7/26/22                | Mon 8/15/22  |   |
| 17       | Air Jumper Air Flow Monitoring & CCTV                                       | 3 wks            | Tue 7/26/22                | Mon 8/15/22  |   |
| 18       | Prepare and Submit Draft Report   | 4 wks            | Tue 8/16/22                | Mon 9/12/22  |   |
| 19       | Prepare and Submit Final Report   | 2 wks            | Tue 9/13/22                | Mon 9/26/22  |   |
| 20       | 2.3 Hydraulic Analysis  | 5 wks            | Tue 7/26/22                | Mon 8/29/22  |   |
| 21       | Flow Monitoring Data Collection   | 2 wks            | Tue 7/26/22                | Mon 8/8/22   |   |
| 22       | Modeling  | 4 wks            | Tue 8/2/22                 | Mon 8/29/22  |   |
| 23       | 2.4 Siphon O&M Program  | 2 wks            | Mon 9/19/22                | Fri 9/30/22  |   |
| 24       | 2.5 Develop Recommendations for Final Design                                | 2 wks            | Mon 9/19/22                |              |   |
| 25       | 2.6 Preliminary Construction Cost   | 1 wk             | Mon 10/3/22                | Fri 10/7/22  |   |
| 26       | 2.7 Preliminary Construction Schedule                                       | 1 wk             | Mon 10/3/22                |              |   |
| 27       | 2.8 Preliminary List of Drawings  | 1 wk             | Mon 10/3/22                |              |   |
| 28       | 2.9 Preliminary Design Report (PDR)   | 13 wks           | Fri 8/19/22                | Thu 11/17/22 |   |
| 29       | Prepare and Submit Draft PDR  | 8 wks            | Fri 8/19/22                | Thu 10/13/22 |   |
| 30       | Draft PDR Workshop  | 0 days           | Fri 10/14/22               |              | ₹ 10/14   |
| 31       | IRWD Review of Draft PDR  | 2 wks            |                            | Thu 10/27/22 |   |
| 32       | Prepare and Submit Final PDR  | 2 wks            |                            | Thu 11/10/22 |   |
| 33       | Final PDR Workshop  | 0 wks            | Fri 11/11/22               |              | ↓ 11/11   |
| 34       | IRWD Review of Final PDR  | 1 wk             |                            | Thu 11/17/22 |   |
| 35       | TASK 3: FINAL DESIGN  |                  | Fri 11/18/22               |              |   |
| 36       | 3.1 - 3.3 60% Design PS&E   |                  | Fri 11/18/22               |              |   |
| 37       | Prepare and Submit 60% Design PS&E  |                  | Fri 11/18/22               |              |   |
| 38       | 60% Design Preview Workshop   | 0 days           | Fri 1/13/23                |              | < 1/13  |
| 39       | IRWD Review of 60% Submittal  | 2 wks            | Fri 1/13/23                | Thu 1/26/23  |   |
| 40       | 3.1 - 3.3 90% Design PS&E   | 8 wks            | Fri 1/27/23                | Thu 3/23/23  |   |
| 41       | Prepare and Submit 90% Design PS&E  | 6 wks            | Fri 1/27/23                | Thu 3/9/23   |   |
| 42       | 90% Design Preview Workshop   | 0 days           | Fri 3/10/23                | Fri 3/10/23  |   |
| 43       | IRWD Review of 90% Submittal  | 2 wks            | Fri 3/10/23                | Thu 3/23/23  |   |
| 44       | 3.1 - 3.3 100% Design PS&E  | 5 wks            | Fri 3/24/23                | Thu 3/23/23  |   |
| 45       | Prepare and Submit 100% Design PS&E   | 3 wks            | Fri 3/24/23                | Thu 4/13/23  |   |
| 45       | 100% Design Preview Workshop  | 0 days           | Fri 4/14/23                | Fri 4/14/23  |   |
| 40       | IRWD Review of 100% Submittal   | 2 wks            | Fri 4/14/23                | Thu 4/27/23  |   |
| 48       | 3.1 - 3.3 Final Design Deliverable  | 2 wks            | Fri 4/14/23                | Thu 4/2//23  |   |
| 40       | Prepare and Submit Final Deliverable  | 2 wks            | Fri 4/28/23                | Thu 5/11/23  |   |
| 49<br>50 | IRWD Backcheck  | 2 wks<br>1 wk    | Fri 5/12/23                | Thu 5/11/23  |   |
| 51       |   |                  | Fri 1/13/23                | Thu 4/6/23   |   |
| 52       | 3.4 Permitting<br>3.5 CEQA Documentation Support                            | 12 wks<br>16 wks | Fri 1/13/23<br>Fri 1/13/23 | Thu 5/4/23   |   |
| 52       | TASK 4: ADDENDA PREP. & PRE-BID MEETING                                     | 4 wks            | Tue 5/23/23                |              |   |
| 53       | Bid Advertisement   |                  | Tue 5/23/23                |              |   |
| 54       | Prepare Addenda   | 0 days<br>4 wks  | Wed 5/23/23                |              |   |
| 55       |   |                  | Tue 6/6/23                 |              |   |
| 56       | Pre-Bid Meeting   | 0 days           |                            | Tue 6/6/23   |   |
|          | Bid Opening   | 0 days           | Tue 6/20/23                |              |   |
| 58<br>59 | TASK 5: OPTIONAL TASKS  | 6 wks            |                            | Thu 12/29/22 |   |
| 59       | 5.1 Siphon Barrel Cleaning, Dewatering, & CCTV                              | 6 wks            | FIT TT/ TQ/ 57             | Thu 12/29/22 |   |



D.2



# Sections F - J

Engineering Design Services for the Sewer Siphon Improvements Phase II



# F | Joint Venture

For this project, Woodard & Curran proposes to utilize V&A Consulting Engineers, National Plant Services, Calvada Surveying, and Traffic Control Engineering as subconsultants.

# V&A Consulting Engineers

V&A Consulting Engineers, Inc. (V&A) provides water, wastewater and transit agencies with specialized engineering solutions to combat the effects of aging infrastructure. They have been supporting our clients since 1979 with corrosion engineering services, field-based condition assessments, coating systems management, collection system flow monitoring and odor control solutions. Corrosion Engineering has earned V&A a national reputation as a company providing comprehensive and specialized services to assist owners in assessing and maintaining infrastructure assets.

# **National Plant Services**

National Plant Services (NPS) has been active in the sewer maintenance business for 40 years and have an experienced and dedicated staff that will make this project a success. They have significant experience in all aspects of siphon and sewer system inspection, maintenance, and rehabilitation, which has made them true Sewer Experts. The NPS team is experienced in working on dozens of large and complex projects each year, and have developed a seamless way to plan, schedule, inspect, and analyze all work in scope.

# **Calvada Surveying**

Calvada Surveying was established in 1989 by Armando DuPont, PLS and maintains a company headquarters in Corona, California. The firm's long-standing philosophy has been to utilize the most advanced surveying technology available to produce highly accurate results for our clients and set the standard for excellence within the surveying industry. Because of this, they have developed an outstanding reputation for providing timely, high-quality service to cities and agencies throughout California.

# **Traffic Control Engineering**

Traffic Control Engineering, Inc. was organized on January 25, 1989 and specializes in preparing traffic control plans and detour plans for construction work in or about public streets, conducting traffic impact studies and alternative alignment evaluation for construction of various underground utility lines, and preparing traffic control plans for special events. Mr. David Kuan, PE, principal of the firm, has extensive working experience with both public and private sectors. Since its inception, the Firm has prepared traffic control plans for thousands of different projects, ranging from street improvements, storm drains, sewer lines, water/reclaimed water pipelines, drilling excavations, raised median landscaping, bus bays, oil pipelines, soundwalls, freeway widening, utility pipelines, fiber optic conduits, bike ride design and special event planning.



# G | Conflict of Interest

Woodard & Curran does not have any actual, apparent or potential conflicts of interest that may result from the performance of any of the services under this contract.





Woodard and Curran does not have any exceptions to IRWD's Professional Services Agreement.



# | | Insurance

| Insurance Required              | Limit  | Policy Number | Company  |
|---------------------------------|--|---------------|--|
| Commercial General<br>Liability | \$1 million per<br>occurrence                  | 6014561812    | Continental Casualty<br>Company                |
| Personal & Adv Injury           | \$1 million per<br>occurrence                  | 6014561812    | Continental Casualty<br>Company                |
| General Aggregate               | \$2 million per project/<br>location           | 6014561812    | Continental Casualty<br>Company                |
| Products – COMP/OP<br>AGG       | \$2 million per project/<br>location           | 6014561812    | Continental Casualty<br>Company                |
| Automotive Liability            | \$1 million per accident                       | 6014561843    | National Fire Insurance<br>Company of Hartford |
| Workers Compensation            | \$1 million per<br>occurrence                  | 6017075447    | Transportation<br>Insurance Company            |
| Professional Liability          | \$1 million per claim/\$2<br>million aggregate | 114135520     | Continental Casualty<br>Company                |

# Woodard & Curran Insurance Coverage:

Note: Woodard & Curran's current insurance policy is effective 02/23/2022 to 02/23/2023. A submittal from our insurance carrier can be provided to IRWD upon request.



# J | Public Work Requirement

**Woodard & Curran** - California Department of Industrial Relations (DIR): 1000046744, expires 6/30/2022.

**V&A Consulting Engineers** - California Department of Industrial Relations (DIR): 1000007205, expires 6/30/2025

National Plant Services - California Department of Industrial Relations (DIR): 1000002703 expires 6/30/2022

**Calvada Surveying** - California Department of Industrial Relations (DIR): 1000002703 expires 6/30/2022

24422 Avenida de la Carlota
 Suite 180
 Laguna Hills, CA 92653

- **\$** 949.420.5300
- woodardcurran.com







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T 800.426.4262 T 949.420.5300

June 13, 2022



Mr. Michael Lu Irvine Ranch Water District Michelson Water Recycling Plant 3512 Michelson Drive Irvine, CA 92612

### Re: Updated Fee Proposal for Engineering Design Services for the Sewer Siphon Improvements Phase II

Dear Mr. Lu:

Irvine Ranch Water District (IRWD) is seeking engineering services for the Engineering Design Services for the Sewer Siphon Improvements Phase II. Woodard & Curran has a full understanding of IRWD's project and unmatched qualifications for sewer siphon design. Based on our review of the request for proposal and discussions and meetings with IRWD staff, we have developed the attached fee proposal that corresponds to the scope of work in our proposal.

Included in the attached fee proposal are costs for labor, subconsultants, reproduction, and other direct costs for the Preliminary Design Report and Final Design. Also included is our standard rate table of hourly rates.

We are committed to working with IRWD to make this important project a success. If you have any questions about our fee proposal, please contact me at Khiggins@woodardcurran.com or (949) 420-5313 or Mirko Maher at Mmaher@woodardcurran.com or (925) 212-3757.

Sincerely,

WOODARD & CURRAN, INC.

Kathleen Hippins

Kathleen Higgins, PE Principal-in-Charge



# Irvine Ranch Water District

# Sewer Siphon Improvements Phase II

| Tasks   |                     |                |                    |                                 |                           | Labor              |                   |         |        |             |                          |                         |                   | Outside                   | Services |  |                                  |                   | ODCs              | Total        |
|---|---------------------|----------------|--------------------|---------------------------------|---------------------------|--------------------|-------------------|---------|--------|-------------|--------------------------|-------------------------|-------------------|---------------------------|----------|--|----------------------------------|-------------------|-------------------|--------------|
|   | Kathleen<br>Higgins | Mirko<br>Maher | Justin<br>Kraetsch | Glen<br>Hermanson/<br>Jen Glynn | Tom Scalese               | Oliver<br>Saeby    | Cathy<br>Greenman | Drafter | Admin. |             |                          | V & A                   | National<br>Plant | Calvada                   | TCE      |  |                                  |                   |                   |              |
|   | PIC                 | PM             | PE                 | Tech<br>Advisor/<br>QA/QC       | Structural<br>Engineering | Design<br>Engineer | Modeling          | CAD     | Admin. | Total Hours | Total Labor<br>Costs (1) | Condition<br>Assessment | ССТV              | Survey Traffic<br>Control |          | Subtotal Sub Consulta<br>Total Cost (2 | Sub Consultant<br>Total Cost (2) | <sup>t</sup> ODCs | Total ODCs<br>(3) | Total<br>Fee |
| Task 1: Project Management                                  | \$330               | \$315          | \$245              | \$330                           | \$260                     | \$205              | \$295             | \$170   | \$120  |             |                          |                         |                   |                           |          |  |                                  |                   |                   |              |
| 1.1 Meetings  | 2                   | 24             | 24                 |                                 | 24                        |                    |                   |         |        | 74          | \$20,340                 |                         |                   |                           |          |  |                                  |                   | \$0               | \$20,340     |
| 1.2 Coordination and Project Status Reports                 | 2                   | 48             | 48                 |                                 | 24                        | 48                 |                   |         |        | 144         | \$20,340                 |                         |                   |                           |          |  |                                  |                   | \$0               | \$20,340     |
| 1.3 Project Invoicing                                       |                     | 40             | 48<br>24           |                                 |                           | 40                 |                   |         | 12     | 48          | \$36,720                 |                         |                   |                           |          |  |                                  |                   | \$0<br>\$0        | \$36,720     |
| 1.4 QA/QC Plan  | 1                   | 4              | 8                  | 62                              | 48                        | 1                  | 1                 |         | 12     | 125         | \$36,990                 |                         |                   |                           |          |  |                                  |                   | \$0<br>\$0        | \$36,990     |
| 1.4 QA/QC Plan<br>Subtotal Task 1                           | : 3                 | 88             | 8                  | 62                              | 48                        | 49                 | 1                 | 0       | 12     | 391         | \$36,990                 | \$0                     | \$0               | \$0                       | \$0      | \$0                                    | \$0                              | ¢O                | \$0<br>\$0        | \$36,990     |
| Task 2: Preliminary Design                                  | . 3                 | 00             | 104                | 02                              | 12                        | 49                 |                   | 0       | 12     | 391         | \$105,150                | \$0                     | \$0               | \$0                       | \$U      | \$U                                    | \$0                              | \$0               | \$0               | \$ 105, 150  |
|   |                     |                |                    | T                               |                           |                    |                   |         |        |             |                          |                         |                   |                           |          |  |                                  |                   |                   |              |
| 2.1 Data Collection and Review, Utility Information &       |                     | _              |                    |                                 |                           |                    |                   |         |        |             |                          |                         |                   |                           |          |  |                                  |                   |                   |              |
| Topographic Survey and Laser 3D Scanning                    |                     | 4              | 16                 | 2                               |                           | 48                 |                   |         |        | 70          | \$15,680                 | \$16,855                |                   | \$41,072                  |          | \$57,927                               | \$60,823                         |                   | \$0               | \$76,503     |
| 2.2 Condition Assessment                                    |                     | 2              | 12                 | 8                               |                           | 16                 |                   |         |        | 38          | \$9,490                  | \$128,887               |                   |                           |          | \$128,887                              | \$135,331                        |                   | \$0               | \$144,82     |
| 2.3 Hydraulic Analysis                                      |                     |                | 8                  | 4                               |                           | 24                 | 42                |         |        | 78          | \$20,590                 | \$29,729                |                   |                           |          | \$29,729                               | \$31,215                         |                   | \$0               | \$51,805     |
| 2.4 Siphon Operation and Maintenance (O&M) Program          |                     | 4              | 16                 | 4                               |                           | 24                 |                   |         |        | 48          | \$11,420                 |                         |                   |                           |          | \$0                                    | \$0                              |                   | \$0               | \$11,420     |
| 2.5 Recommend Improvements for Final Design                 |                     | 4              | 32                 | 2                               |                           | 24                 |                   |         |        | 62          | \$14,680                 |                         |                   |                           |          | \$0                                    | \$0                              |                   | \$0               | \$14,680     |
| 2.6 Preliminary Opinion of Probable Construction Cost       |                     |                | 8                  | 2                               |                           | 24                 |                   |         |        | 34          | \$7,540                  |                         |                   |                           |          | \$0                                    | \$0                              |                   | \$0               | \$7,540      |
| 2.7 Preliminary Construction Schedule                       |                     | 2              | 16                 | 4                               |                           |                    |                   |         |        | 22          | \$5,870                  |                         |                   |                           |          | \$0                                    | \$0                              |                   | \$0               | \$5,870      |
| 2.8 Preliminary List of Drawings                            |                     | 2              | 8                  |                                 |                           | 8                  |                   |         |        | 18          | \$4,230                  |                         |                   |                           |          | \$0                                    | \$0                              |                   | \$0               | \$4,230      |
| 2.9 Preliminary Design Report (PDR)                         | 2                   | 24             | 40                 | 8                               | 48                        | 80                 |                   | 54      | 4      | 260         | \$59,200                 |                         |                   |                           |          | \$0                                    | \$0                              |                   | \$0               | \$59,200     |
| Subtotal Task 2   | 2                   | 42             | 156                | 34                              | 48                        | 248                | 42                | 54      | 4      | 630         | \$148,700                | \$175,471               | \$0               | \$41,072                  | \$0      | \$216,543                              | \$227,369                        | \$0               | \$0               | \$376,069    |
| Task 3: Final Design  |                     | 1              | 1                  | -                               | F1                        |                    |                   | 1       |        |             |                          |                         | 1                 |                           | r        |  |                                  |                   |                   |              |
| 3.1.1 60% Final Design Plans                                |                     | 16             | 96                 | 4                               | 40                        | 160                |                   | 460     |        | 776         | \$151,280                |                         |                   |                           | \$20,000 | \$20,000                               | \$21,000                         | \$200             | \$220             | \$172,500    |
| 3.1.2 90% Final Design Plans                                | 2                   | 24             | 100                | 4                               | 40                        | 120                |                   | 400     |        | 690         | \$137,040                |                         |                   |                           | \$8,000  | \$8,000                                | \$8,400                          | \$100             | \$110             | \$145,550    |
| 3.1.3 100% Final Design Plans                               |                     | 8              | 32                 | 2                               | 20                        | 80                 |                   | 160     |        | 302         | \$59,820                 |                         |                   |                           | \$4,000  | \$4,000                                | \$4,200                          | \$100             | \$110             | \$64,130     |
| 3.1.4 Final Design Plans                                    |                     | 8              | 16                 | 1                               | 12                        | 24                 |                   | 60      |        | 121         | \$25,010                 |                         |                   |                           | \$2,000  | \$2,000                                | \$2,100                          | \$50              | \$55              | \$27,165     |
| 3.2 Project Manual  |                     |                | 72                 | 8                               | 40                        | 40                 |                   |         |        | 160         | \$38,880                 |                         |                   |                           |          | \$0                                    | \$0                              |                   | \$0               | \$38,880     |
| 3.3 Opinion of Probable Construction Cost                   |                     | 4              | 8                  | 4                               | 24                        | 24                 |                   |         |        | 64          | \$15,700                 |                         |                   |                           |          | \$0                                    | \$0                              |                   | \$0               | \$15,700     |
| 3.4 Permits   |                     | 8              | 48                 | 8                               |                           | 60                 |                   |         |        | 124         | \$29,220                 |                         |                   |                           |          | \$0                                    | \$0                              |                   | \$0               | \$29,220     |
| 3.5 CEQA Documentation Support                              |                     | 8              | 8                  |                                 |                           | 8                  |                   |         |        | 24          | \$6,120                  |                         |                   |                           |          | \$0                                    | \$0                              |                   | \$0               | \$6,120      |
| Subtotal Task 3   | : 2                 | 76             | 380                | 31                              | 176                       | 516                | 0                 | 1080    | 0      | 2261        | \$463,070                | \$0                     | \$0               | \$0                       | \$34,000 | \$34,000                               | \$35,700                         | \$450             | \$495             | \$499,265    |
| Task 4: Addenda Preparation and Pre-Bid Meeting             |                     |                |                    |                                 |                           |                    |                   |         |        |             |                          |                         |                   |                           |          |  |                                  |                   |                   |              |
| 4.1 Addenda Preparation and Pre-bid Meeting                 |                     | 6              | 27                 |                                 | 12                        | 12                 |                   | 22      |        | 79          | \$17,825                 |                         |                   |                           |          | \$0                                    | \$0                              | \$50              | \$55              | \$17,880     |
| Subtotal Task 4   | : 0                 | 6              | 27                 | 0                               | 12                        | 12                 | 0                 | 22      | 0      | 79          | \$17,825                 | \$0                     | \$0               | \$0                       | \$0      | \$0                                    | \$0                              | \$50              | \$55              | \$17,880     |
| TOTAL   | . 7                 | 212            | 667                | 127                             | 308                       | 825                | 43                | 1156    | 16     | 3361        | \$734,745                | \$175,471               | \$0               | \$41,072                  | \$34,000 | \$250,543                              | \$263,069                        | \$500             | \$550             | \$998,36     |
| Task 5: Optional Tasks                                      |                     |                |                    |                                 |                           |                    |                   |         |        |             |                          |                         |                   |                           |          |  |                                  |                   |                   |              |
| 5.1 Siphon Barrel Cleaning, Dewatering, and CCTV Inspection |                     | 8              | 24                 | 8                               |                           | 16                 |                   |         |        | 56          | \$14,320                 |                         | \$260,000         |                           |          | \$260,000                              | \$273,000                        |                   | \$0               | \$287,320    |
| Optional Tasks Subtotal                                     | : 0                 | 8              | 24                 | 8                               | 0                         | 16                 | 0                 | 0       | 0      | 56          | \$14,320                 | \$0                     | \$260,000         | \$0                       | \$0      | \$260,000                              | \$273,000                        | \$0               | \$0               | \$287,320    |
| TOTAL with Optional Tasks                                   | 5 7                 | 220            | 691                | 135                             | 308                       | 841                | 43                | 1156    | 16     | 3417        | \$749,065                | \$175,471               | \$260,000         | \$41,072                  | \$34,000 | \$510,543                              | \$536,069                        | \$500             | \$550             | \$1,285,68   |

1. The individual hourly rates include salary, overhead and profit.

2. Subconsultants will be billed at actual cost plus 5%.

3. Other direct costs (ODCs) such as reproduction, delivery, mileage (rates will be those allowed by current IRS guidelines), and travel expenses, will be billed at actual cost plus 10%.

4. Additional Woodard & Curran staff may perform work on the project, based on our standard billing rate schedule attached.

5. Although the Scope of Services is broken down into tasks and subtasks, the fee for each task is not an exact estimate. Woodard & Curran reserves the ability to adjust the budgets within and amongst tasks to balance the overall level of effort. Woodard & Curran will not exceed the total contracted budget without authorization from the District.

# Fee Estimate 6/13/2022



# Municipal Standard 2022

| STAFF TYPE                       | HOURLY RATE |
|----------------------------------|-------------|
| Project Assistant                | \$120       |
| Billing Manager                  | \$140       |
| Designer 1                       | \$140       |
| Graphic Artist                   | \$140       |
| Graphics Manager                 | \$140       |
| Marketing Assistant              | \$140       |
| Marketing Manager                | \$140       |
| Senior Accountant                | \$140       |
| Senior Project Assistant         | \$140       |
| Software Engineer 1              | \$165       |
| Designer 2                       | \$170       |
| Designer 3                       | \$175       |
| Senior Software Developer        | \$175       |
| Engineer 1                       | \$180       |
| Geologist 1                      | \$180       |
| Planner 1                        | \$180       |
| Scientist 1                      | \$180       |
| Senior Designer                  | \$180       |
| Technical Specialist 1           | \$180       |
| Software Engineer 2              | \$185       |
| Software Engineer 3              | \$200       |
| Engineer 2                       | \$205       |
| Geologist 2                      | \$205       |
| Planner 2                        | \$205       |
| Scientist 2                      | \$205       |
| Technical Specialist 2           | \$205       |
| Engineer 3                       | \$235       |
| Geologist 3                      | \$235       |
| Planner 3                        | \$235       |
| Scientist 3                      | \$235       |
| Technical Specialist 3           | \$235       |
| Project Engineer 1               | \$245       |
| Project Geologist 1              | \$245       |
| Project Planner 1                | \$245       |
| Project Scientist 1              | \$245       |
| Project Specialist 1             | \$245       |
| Project Technical Specialist 1   | \$245       |
| Project Engineer 2               | \$260       |
| Project Geologist 2              | \$260       |
| Project Planner 2                | \$260       |
| Project Scientist 2              | \$260       |
| Project Specialist 2             | \$260       |
| Project Technical Specialist 2   | \$260       |
| Project Manager 1                | \$280       |
| Technical Manager 1              | \$280       |
| Project Manager 2                | \$295       |
| Technical Manager 2              | \$295       |
| Senior Project Manager           | \$315       |
| Senior Technical Manager         | \$315       |
| National Practice Leader         | \$330       |
| Senior Technical Practice Leader | \$330       |
|                                  |             |

# EXPENSES Travel \$0.585 / mile Other Direct Costs At Cost Plus 10% Subconsultants/Subcontractors AtCost Plus 5%

#### NOTES

Mileage rate will change as the federal allowable rate is modified.

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June 27, 2022 Prepared by: M. Robinson / E. Akiyoshi Submitted by: K. Burton Approved by: Paul A. Cook

### ACTION CALENDAR

### CONDITION ASSESSMENT FOR PUMP STATIONS AND TANKS CONSULTANT SELECTION

### SUMMARY:

The Condition Assessment for Pump Stations and Tanks project includes 11 pump stations and 11 tanks, with a focus on mechanical, electrical, and instrumentation and control. The work includes detailed condition assessment, cost estimating, and project packaging for design and construction. Staff recommends the Board authorize the General Manager to execute a Professional Services Agreement with HDR Engineering, Inc. in the amount of \$367,800.

### BACKGROUND:

Phase 1 of the Capital Improvement Plan (CIP) Asset Management Program was recently completed and identifies capital repair and rehabilitation (R&R) projects for over 150 pump stations, tanks, lift stations, and well facilities. As a result of the CIP Asset Management Program, staff initiated the pump stations and tanks condition assessment project to complete a detailed condition assessment on critical facilities as recommended from the Phase 1 project.

The project scope of work includes asset level condition assessments using Level I (visual, noninvasive condition assessment) and Level II (more involved testing like pump/motor vibration analysis and electrical insulation testing) evaluations and includes cost estimation and project packaging for design and construction.

### **Consultant Selection:**

Staff invited seven consultants to propose on the project: AECOM, HDR, Hazen & Sawyer, GHD, Stantec, Jacobs, and West Yost. Two consultants, AECOM, and GHD, declined to submit proposals early in the proposal process. While all teams were well qualified, HDR presented a well-balanced team, clear project approach, and an excellent project understanding that meets IRWD's goals and objectives for this project.

- <u>Project Team:</u> HDR is a proven leader in the Southern California area and this team recently completed successful condition assessment projects for City of San Diego, Long Beach Water Department, and the City of Carlsbad. The project manager, Michael Flores, has extensive capital asset management project experience and has led several successful asset related planning projects for IRWD.
- <u>Project Understanding</u>: HDR's proposal demonstrated a clear methodology for completing the work and showcased its solid project management and technical experience with detailed condition assessments for pump stations and tanks. The level of effort at each facility is on point and the level of inspection for the different mechanical, electrical, and instrumentation and control assets match with IRWD's project requirements.

Action Calendar: Condition Assessment for Pump Stations and Tanks Consultant Selection June 27, 2022 Page 2

• <u>Technical Approach:</u> HDR articulated a clear approach to condition assessment that uses industry standard methods to evaluate and analyze assets for R&R. Throughout the proposal, a field inspection plan was presented based on IRWD's facility list, project workflow, and approach for estimating the remaining useful lives of the assets.

The consultant selection matrix is provided as Exhibit "A", and HDR's scope of work and fee proposal are provided as Exhibit "B". Staff anticipates that the Condition Assessment project for pump stations and tanks will be completed in January 2023.

# FISCAL IMPACTS:

The CIP Asset Management Condition Assessment, Projects 12252 and 12254, will be funded through replacement funds and are included in the FY 2022-23 Capital Budget. The existing budgets are sufficient to fund this phase of the project.

### ENVIRONMENTAL COMPLIANCE:

This study is exempt from the California Environmental Quality Act (CEQA) as authorized under the California Code of Regulations, Title 14, Chapter 3, Section 15262, which provides exemption for planning studies.

### COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on June 21, 2022.

### **RECOMMENDATION:**

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE A PROFESSIONAL SERVICES AGREEMENT WITH HDR ENGINEERING, INC. IN THE AMOUNT OF \$367,800 FOR THE CONDITION ASSESSMENT FOR PUMP STATIONS AND TANKS, PROJECTS 12252 AND 12254.

### LIST OF EXHIBITS:

Exhibit "A" – Consultant Evaluation Matrix Exhibit "B" – HDR Scope of Services and Cost Estimate

# EXHIBIT "A"

### CONSULTANT EVALUATION MATRIX

#### Condition Assessment for Pump Stations and Tanks

Mechanical, Electrical, I&C Focus

| Item | Description  | Weights                  |               | Jacobs         | HDR           |                | Stantec             |           | Hazen and Sawyer    |           | West Yost     |                |
|------|--|--------------------------|---------------|----------------|---------------|----------------|---------------------|-----------|---------------------|-----------|---------------|----------------|
| А    | TECHNICAL APPROACH                                       |                          |               |                |               |                |                     |           |                     |           |               |                |
| 1    | Project Understanding                                    | 30%                      |               | 4              | 1             |                |                     | 5         | 3                   |           |               | 2              |
| 2    | Project Approach   | 40%                      |               | 4              |               | 1              |                     | 4         |                     | 4         | 2             |                |
| 3    | Project Team   | 30%                      |               | 4              |               | 1              |                     | 4         |                     | 3         |               | 2              |
|      | Weighted Score   | 100%                     |               | 4.0            |               | 1.0            |                     | 4.3       |                     | 3.4       |               | 2.0            |
| В    | SCOPE OF WORK  |                          |               |                |               |                |                     |           |                     |           |               |                |
| TASK |  |                          | Task<br>Hours | FEE            | Task<br>Hours | FEE            | Task<br>Hours       | FEE       | Task<br>Hours       | FEE       | Task<br>Hours | FEE            |
| 1    | TASK 1 - Project Management                              | K 1 - Project Management |               | \$18,223       | 148           | \$41,100       | 214                 | \$54,680  | 92                  | \$23,120  | 104           | \$27,760       |
| 2    | TASK 2 - Condition Assessment                            |                          | 368           | \$75,606       | 700           | \$184,700      | 1,234               | \$296,426 | 485                 | \$102,910 | 530           | \$275,088      |
| 3    | TASK 3 - Capital Project Packagin and Prioritization     |                          |               | \$30,489       | 316           | \$80,700       | 624                 | \$142,078 | 140                 | \$29,290  | 294           | \$72,764       |
| 4    | TASK 4 - Pump Stations and Tanks Capital Planning Report |                          |               | \$4,053        | 274           | \$61,300       | 906                 | \$205,538 | 122                 | \$24,640  | 224           | \$54,246       |
|      | SUB-TOTAL ENGINEERING SERVICES, FEE                      |                          | 629           | \$128,371      | 1,438         | \$367,800      | 2,978               | \$698,722 | 839                 | \$179,960 | 1,152         | \$429,858      |
| 9.1  | Optional Tasks   |                          |               |                |               |                |                     |           | 74                  | \$45,970  |               |                |
|      | TOTAL ENGINEERING SERVICES, FEE                          |                          | 629           | \$128,371      | 1,438         | \$367,800      | 2,978               | \$698,722 | 913                 | \$225,930 | 1,152         | \$429,858      |
|      | Avg \$/hr  |                          |               | \$204          |               | \$256          |                     | \$235     |                     | \$214     |               | \$373          |
| D    | OTHER  |                          |               |                |               |                |                     |           |                     |           |               |                |
|      | Miscellaneous Items                                      |                          |               |                |               |                |                     |           |                     |           |               |                |
|      | Multiplier   |                          |               | -              |               |                | -                   |           | -                   |           | -             |                |
|      | Conflict of Interest                                     |                          |               | No             | No            |                | No                  |           | No                  |           | No            |                |
|      | Joint Venture  |                          |               | No             |               | No             |                     | No        |                     | No        |               | No             |
|      | Addendum Acknowledgement                                 |                          |               | N/A            | N/A           |                |                     | N/A       | N/A                 |           | N/A           |                |
|      | Scope of Work Exclusions                                 |                          |               | No             |               | No             |                     | No        |                     | No        |               | No             |
|      | Exceptions taken to IRWD Std. Contract                   |                          |               | No             |               | No             | No                  |           |                     | No        |               | Yes            |
|      | Insurance (Professional & General Liability)             |                          | Yes,          | Certs Provided | Yes,          | Certs Provided | Yes, Certs Provided |           | Yes, Certs Provided |           | Yes, 0        | Certs Provided |
|      | Ranking of Consultants                                   |                          |               | 4              |               | 1              | 5                   |           | 3                   |           | 2             |                |

The "1" ranking is the staff recommended consulting team

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EXHIBIT "B"



PROPOSAL

Pump Stations and Tanks Condition Assessment Replacement and Rehabilitation Study

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PR 12252, 12254, 12255

May 12, 2022

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# FSS

May 12, 2022

Irvine Ranch Water District **Mitch Robinson, Project Manager** 15600 Sand Canyon Avenue Irvine, CA, 92618

# RE: Proposal – Pump Stations and Tanks Condition Assessment Replacement and Rehabilitation Study; PR 12252, 12254, 12255

Dear Mr. Robinson and Members of the Selection Committee,

Thank you for inviting HDR Engineering, Inc. (HDR) to propose on your Pump Stations and Tanks Condition Assessment Replacement and Rehabilitation Study Project. We are excited about this opportunity and have met with your staff over the course of the last year to fully understand your goals for this project. This project is important because it represents a new way for Engineering Planning to support facility asset investment planning through systematic data collection, condition assessment, asset evaluation and project packaging, as well as through increased coordination between operations, maintenance and planning business units. We have been providing these services in Southern California for over 60 years and bring extensive knowledge in condition assessment with standard methodologies and processes for collecting different levels of assessment data to develop capital plans and scopes. Our team includes asset management practitioners that are highly effective in asset management program implementation, and they will work with you in collecting and managing data, performing asset investment planning, and making optimal decisions. These processes can be scaled for future asset investment planning delivery using internal or external resources. We recently performed condition assessment of San Diego's Point Loma Wastewater Treatment deploying multiple inspection teams and standardized data collection and assessment to develop capital plans for the entire plant. Our approach will benefit this project and IRWD in the following ways:

#### Proven Leadership in Asset Management and Commitment to IRWD's Success.

**Michael Flores, IAM** leads HDR's Asset Management Practice Group and brings a deep understanding of condition assessment, asset management, and asset investment planning. He is certified in asset management by the Institute of Asset Management and understands how the outputs of this project fit into the larger picture of IRWD's asset management program development. He will manage HDR's project delivery team to stay on schedule and budget, streamline data collection to make the best use of the time spent by our respective teams, and he will guide our team to design smart project packages in alignment with IRWD's project delivery strategy and priorities.

#### Expertise in Data Collection at the Right Level of Detail to Make Optimal Decisions.

The up-front preparation for condition assessment field visits is critical to defining the right level of detail for data collection. We utilize a multi-level approach to data collection designed to collect the data necessary for decision-making. This reduces the burden for on-going condition monitoring data collection and reduces the "data noise" that can reduce asset evaluation efficiency. **Mandira Sudame, PE** and **Badri Badriyha, PhD, PE** utilized this approach for the Point Loma Wastewater Treatment Plant Condition Assessment, one of the largest treatment facilities in the nation. Using this approach, capital assets and select maintenance asset types will receive more detailed condition assessment with condition assessment criteria linked to primary failure modes enabling our evaluators to better estimate remaining useful life leading to improved decision-making and investment timing.

#### hdrinc.com

3230 El Camino Real, Suite 200, Irvine, CA 92602-1377 **T** 714.730.2300 **F** 714.730.2301

#### **Efficient Work Execution.**

Our team will be utilizing state-of-the-art data collection tools configured to collect code-based condition, reliability and performance data and organizing this data and photos according to the specific assets provided from IRWD's Maximo asset registry. **Tom McCormack** has managed multiple implementations of Survey123 for our condition assessment projects. Assessment data is transmitted to a cloud database in real-time, enabling both real-time progress tracking and asset evaluation and investment planning to occur in parallel with condition assessment data collection.

#### Smart Project Packaging Aligned with IRWD's Project Delivery Strategy.

HDR utilizes an asset evaluation process that uses business intelligence to enable efficient asset level decision-making and project packaging. **Shannon Wall, PE** will lead asset investment planning and project packaging. She joined HDR from Tacoma Water, where she was responsible for implementing asset management and asset investment planning. Shannon will collaborate closely with IRWD staff to design project packages in alignment with your project delivery strategies and constraints. She will be support by **Eric Packer, EIT**, the lead developer of HDR's asset management business intelligence tools.

Thank you for inviting us to propose on this project. HDR has been partnering with IRWD for many years bringing knowledge of your system and successful project delivery and we are excited for the opportunity to collaborate and partner with you. Michael and his team have the full support of HDR and my personal commitment that we will deliver a successful project that will deliver smart investment plan for your pump stations and tank as well as advance your evolution to a new way of delivering asset investment planning in an efficient, effective, and collaborative manner. Please contact Michael Flores at **714.730.2385** or **Michael.Flores@hdrinc.com** if you have any questions regarding our proposal.

Sincerely, HDR Engineering, Inc.

Annay. What

Anna Lantin, PE Vice President

Michael Flores

Mike Flores, IAM Project Manager



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B-4



A. SCOPE



# **PROJECT UNDERSTANDING**

This project is more than just delivering a Condition Assessment Report; it is about understanding the importance and timing of repair and rehabilitation investments need at the District's higher risk pump stations and tanks to provide reliable service well into the future. HDR employs data-driven processes and tools to conduct objective, multi-faceted condition assessment and asset evaluation to prioritize future capital improvement investments so that your water facilities remain reliable, efficient, and able to serve your customers. We accomplish this by employing a high level of communication and collaboration throughout the project.

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To visualize the process, we developed the Project Workflow diagram on the following page. The sections below describe each Task.



# TASK 1: PROJECT MANAGEMENT

# TASK OBJECTIVE

IRWD deserves a well-managed Project that includes frequent communication between District staff and the HDR team, which meets the schedule and stays within the approved budget. The following outlines our approach to managing your project to a successful conclusion.

# TASK DELIVERABLES

Kickoff Meeting Agenda and Minutes; Project Management Plan; Project Action Item Tracking Log; Project Decision Tracking Log; Workshop Agendas and Minutes.

### **JOB SET-UP & PROJECT MANAGEMENT PLAN**

HDR's internal job set-up will be completed upon receipt of the District's NTP. As part of initial job set-up and in accordance with HDR standards, we will prepare a Project Management Plan (PMP). The PMP guides the project throughout its life to provide effective management of work and delivery.

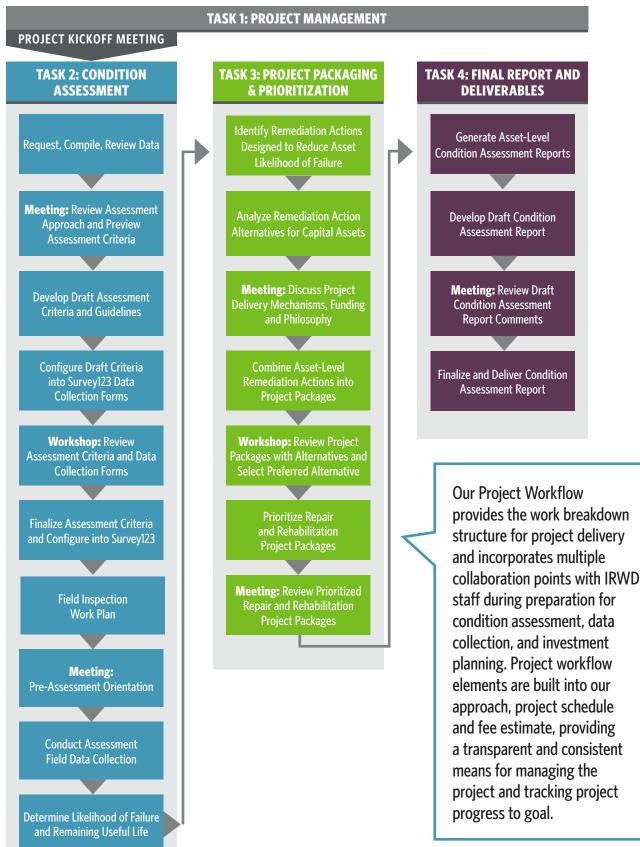
**COMMUNICATION** will be largely driven by Michael Flores to and from the District. We will define more detailed communication delegation and other protocols at the project kickoff meeting. We will rely heavily on email for informal communications, but we will contact you by phone or meet in person, as more efficient discussions are required.



Every project requires **oversight** and **management** to **stay on task and schedule.** 

**REGULAR MEETINGS** with the District will be the cornerstone of formal project interaction, which falls in line with our proposed progress informal meetings. Michael Flores would like to schedule biweekly meetings with Mitch Robinson, the District's Project Manager, to keep information flowing and to monitor our project risk register that we will include as part of our project management approach. It is anticipated these meetings will last no longer than 30-minutes, but will allow a free flow discussion on key items needing attention. HDR will also lead workshops at each major milestone, as requested in your RFP. This will not only inform the District of project progress but help expedite IRWD's review of submittals.

# **PROJECT WORKFLOW**



**SAFETY** is an embedded part of our culture and a consistent emphasis on every project. We problem solve and attack safety concerns head-on through pro-active training and site solutions that focus on improving project safety. We will implement a safety plan to address the safety, health, protection, and security for our personnel. Similar to any other hazard, COVID-19 also presents hazards and challenges. We will utilize a COVID-19 Checklist, follow Exposure Notification and Isolation Protocols, and communicate COVID-19 Health & Safety Measures to team members.

**COST CONTROL** is critical to delivering the scope of work for the approved budget. Project costs are monitored using business intelligence tools to provide a vivid picture of accomplishments, work in progress, milestones and future activities. Weekly project cost reports are generated internally from our Electronic Business System accounting based on actual timesheet charges by project staff. They will also be reviewed by Michael to assess current budget status. Our invoicing will include a project progress report outlining percent complete by task.

**SCHEDULE CONTROL** is critical to delivering the scope of work to meet the set project deadline. Project progression is monitored over multiple time frames to track percent complete along with remaining budget. The schedule for this project is 7 months and will require us to focus on not only delivering quality but meeting the schedule.

We've provided a custom schedule in Section D that identifies key deliverable dates along with key workshops and meetings with the District that is further outlined in our schedule approach.

**QUALITY** begins with a mindset shared by all members of our team. It starts by clearly understanding your expectations and making a commitment to meeting them every time. At the start of the project, HDR will prepare a four-part Quality Management Plan to provide seamless coordination, communication, and project execution. This document becomes a valuable reference guide for the entire team, including you, whether you want to contact someone on the team, identify milestones or review the budget, this document keeps the team focused on the project and meeting the expectations of District staff.

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HDR performs **INDEPENDENT PEER REVIEWS** Before final production and delivery of submittals, all materials will be independently reviewed by knowledgeable staff who have not been involved in the development of the deliverables. These peer reviews will provide a fresh set of eyes on the deliverables to point out inconsistencies, remove redundancies and search for ways to benefit each deliverable without sacrificing quality.

**INTERNAL MANAGEMENT REVIEWS** at project inception and at intervals throughout the project confirm that scope, budget, and schedule are on track. Additional quality control is provided by technical leaders who perform technical reviews of deliverables during project execution. All of these activities and their outcomes are tracked in HDR's project management system to document that quality and risk management processes are followed and monitored.

At our **KICKOFF MEETING** we will introduce the team, review project goals and strategies, discuss the work plan and schedule, and identify next steps. Prior to the Kickoff meeting, we will complete our review of the information requested in Task 2 so that we can take the opportunity after the Kickoff meeting to discuss the information reviewed, verify our understanding, and identify additional actions to take during our initial analysis.

Throughout the project we will have workshops to present and discuss key milestones, obtain stakeholder input, and set the path forward for the remainder of the work.

We understand the importance of meeting project schedules. We can complete this project in **7 months** to provide you a solid database of your assets and a **clear understanding of the repair and rehabilitation investments needed for the next 10 years.** 



```
TASK 2:
CONDITION
ASSESSMENT
```

# TASK OBJECTIVE

Understanding the condition of each asset helps to determine the likelihood of failure and remaining useful life. We will collect physical information on the condition of your facilities to enable identification of safety, maintenance, repair and rehabilitation actions to reduce risk.

# TASK DELIVERABLES

Inspection logs and summarized condition, performance and reliability data; remaining useful life estimate; asset-level likelihood of failure framework and scores; workshop agenda and minutes.

Our first effort, before the kickoff meeting, will be to prepare a data report so that we can review it and get a head start in understanding the assets being assessed. HDR will then compile asset data and perform a desktop assessment of assets using the asset age, materials, operating environment, available performance data and IRWD staff input. The goal is to sort the assets and identify the level of physical condition assessment required to appropriately decide on repair and rehabilitation actions. **This inexpensive desktop risk assessment is used to optimize the labor-intensive physical assessments.** This process will help reduce staff time when accompanying the inspection team. We will hold a workshop to review the desktop assessment and to confirm the assessment approach, including the level of visual, performance and reliability assessment for each type of asset.

HDR uses ArcGIS Survey123 to collect field data. Survey123 captures data, photos, videos, and notes that will be uploaded to cloud storage or stored on the mobile device for later upload via WIFI. Survey123 can generate high quality printable documents from data and photos captured with this platform. We have developed standard questions for each type of asset and will review these questions with you during our workshop and adjust the questions as mutually agreed. We will use these questions to methodically assess the physical condition of each asset based on visual observations, performance data and data collected using predictive maintenance tools.



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HDR used Survey123 to perform objective and consistent condition assessments of more than 2,400 assets for the City of San Diego's Point Loma Wastewater Treatment Plant. We propose using Survey123 for this project to eliminate errors in data transfers and makes the field information instantly available to import into the risk model.

As outlined in Task 2B of the RFP, the baseline approach is to conduct the condition assessment at the asset level. While asset level approach will unquestionably provide a comprehensive evaluation, HDR has identified opportunities to streamline the analysis, reduce the condition assessment level of effort, and maintain high level condition assessment information to support decision-making. A failure analysis approach would look critically at facilities and evaluate how failures occur and focus the in-depth condition assessment on those elements most likely to contribute to failures. Other items that fail without significant system impact or that have well-defined failure responses would receive a more limited condition assessment. IRWD has, in fact, already initiated this approach by designating assets as capital or maintenance and thereby identifying the typical response to failures. The failure analysis approach would be conducted during the workshop to Review Assessment Approach and Preview Assessment Criteria to identify the key failure modes and asset classes targeted for more detailed evaluation. One reason that this approach is feasible for this project is due to the project's focus on pump stations and tanks. There are many similarities across the facility pumping and tank sites and failure analysis results can be applied similarly to many of these site's facilities and rapidly reduce the number of assets requiring a detailed analysis. In the end, this approach will result in collection of high value data from the condition assessment effort and will limit the amount of data collection on assets not requiring action and in those areas that do not significantly impact the project objectives.

## **KEY ISSUE**

### **OUR PROPOSED SOLUTION**

### **BENEFIT TO IRWD**

**Assessment Detail and** Level of Effort. Condition assessment data can be expensive to collect. In some cases, a simple 1 to 5 condition assessment score is sufficient to support decision-making, yet for more complex and higher value assets, a simple 1 to 5 condition assessment score is not sufficient to support optimal decisionmaking. In addition, although IRWD has consequence of failure at the facility level, it is not clear whether this includes assessment of consequence of failure at the asset level. Depending on the purpose and configuration of specific assets in these pump station and tank systems and subsystems, the failure of specific assets will have varying impact on the facility's ability to function and deliver service to customers.

# Asset Class Condition Assessment Criteria and Asset-Level

Consequence, HDR utilizes a standardized 1 to 5 condition assessment scoring for rapid condition assessment of assets for master planning-level condition assessment. In general, HDR will collect a 1 to 5 condition assessment score at the asset level for all assets. We will work closely with IRWD operations, maintenance and technical engineering staff to isolate and remove high-performing asset in good condition from further assessment, enabling our respective teams to focus more attention on assets requiring action. HDR maintains a comprehensive library of supplementary condition assessment criteria for various water facility asset classes to enable our condition assessment teams to document specific visual, performance, and measured data points using pulldown fields and code-based data collection. This enables our asset evaluation team the ability to easily drill down into specific field observations and quickly identify the set of safety, maintenance, repair and rehabilitation actions needed to reduce likelihood failure and extend asset life. HDR proposes to collect this more detailed condition assessment data for capital assets and select maintenance asset classes based on key failure modes discussion during review of preliminary assessment criteria.

**Data Collected at Right** Level of Detail Needed to Make Optimal Decisions. Collecting data at the right level of detail provides the asset evaluation team and IRWD with the information needed to efficiently make optimal decisions on actions IRWD can take to reduce facility failure risk, while at the same time minimizing the data "noise" created by collecting too much data, especially extraneous data not resulting in any form of action. This makes the best use of HDR staff time and both IRWD staff time and IRWD's capital investments.

### WHERE WE'VE DONE THIS BEFORE

**Contra Costa Water District.** HDR worked with Contra Costa Water District to assess asset condition using a 1 to 5 scale as well as through use of multiple drilldown inspection criteria.

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# PHYSICAL ASSESSMENTS PROVIDES THE BASIS FOR ANALYZING RISK

Visual assessment goes beyond what the eye can see. The following sections highlight the areas where we will focus our physical assessments and how we will collect certain data.

## STRUCTURAL ELEMENTS

- All metal surfaces including but not limited to access hatches, stairs, handrails, platforms, pipe supports, beams and columns will be visually assessed for corrosion
- Visual observations of concrete surfaces, including walls, joints and linings will be documented with photographs and videos.
- As-needed in-site soluble salt testing beneath the lining blemishes to evaluate the concentration of aggressive ions (e.g., chloride, sulfate and nitrates) harmful to concrete.

# **MECHANICAL ELEMENTS**

- All exposed and reasonably accessible mechanical equipment and components, including equipment, pump assemblies, motors, engines, gears, valves, piping and appurtenances will be visually inspected.
- From the manufacturer's name plates and maintenance information, HDR will record the following:
  - Pump head in feet;
  - Capacity in gallons per minute;
  - Impeller diameter in inches for each pump; and
  - Horsepower and RPM for the motors.
- HDR will observe the equipment for vibrations, sounds, temperature, alignment, and odor. Any field observations such as cavitation, vibration or noises will be made by sensory observation without the use of special instruments.
- Mechanical components identified by operators may be tested for thermography, vibration, insulation resistance, performance testing. Vibration will be monitored using a handheld accelerometer.
- The readily available operating logs at each facility will be reviewed.
- To the extent feasible, HDR will conduct performance testing by working with IRWD staff to operate the equipment within the typical operating ranges to simulate normal operating conditions.

### **ELECTRICAL ELEMENTS**

- HDR will assess electrical components including the distributive Control Systems, power centers and Motor Control Centers.
- HDR will observe SCADA operations of specific assets.

 HDR will perform a visual assessment of the electrical gear to document MCC, switch gear, power supply systems and backup power generation. Visual assessment will include instrumentation such as pressure gauges, pressure switch, temperature switch, seal water, actuators, solenoid valves, pneumatic valves and flow meters.

# **SITE & SAFETY ELEMENTS**

- Each building and structure will be assessed for condition and functionality of the space.
- Drainage and erosion around each structure and within the overall site will be documented.
- Visual inspections accompanied with photographic documentation will be provided.

It is expected that some assets will be difficult to assess and evaluate and HDR has identified approaches for this situation. The difficulty may arise for a variety of reasons, ranging from proprietary data limitations to physical access challenges, such as hazardous

We wrote the book! HDR is an industry leader in infrastructure condition assessment and has developed standard methodologies and guidelines for collecting different levels of condition assessment data (e.g. visual, non-



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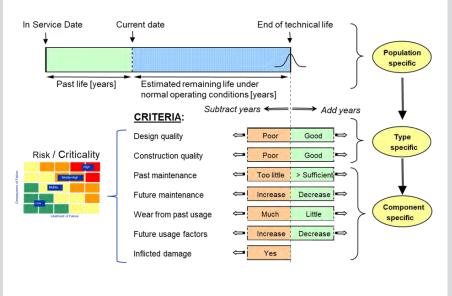
destructive, destructive) for use at various phases of capital planning and project scoping. We re-publish our Condition Assessment and Rehabilitation Guide annually to provide our clients and industry with readily available information. Irvine Ranch Water District (IRWD/District) | Section A. | Scope Pump Stations and Tanks Condition Assessment Replacement and Rehabilitation Study

atmospheres. In these cases, HDR typically uses an approach that includes:

- Establish guidelines with the District during planning that identifies potential difficulties that may be encountered.
- Look to age-based analysis when condition-based analysis is challenging. While not as informative as condition-based, it does provide a baseline assessment of remaining useful life that can be included with other assets in the hierarchy to establish a provisional replacement priority.
- Consider a cursory failure analysis to supplement the age-based analysis. If the failure analysis or asset type indicates a low risk, the age rating will generally be appropriate.
- If the failure analysis shows a higher level of concern, we will
  recommend a higher level of inspection effort be undertaken,
  such as excavation or specialized testing. If the inspection costs,
  level of effort, or risk are prohibitive, the asset will be identified
  for early replacement due to the risk and information uncertainty.
  The approach provides a reasonable level of due diligence to
  justify the replacement action.
- Identify redesign elements to avoid the uninspectable situation in the future.

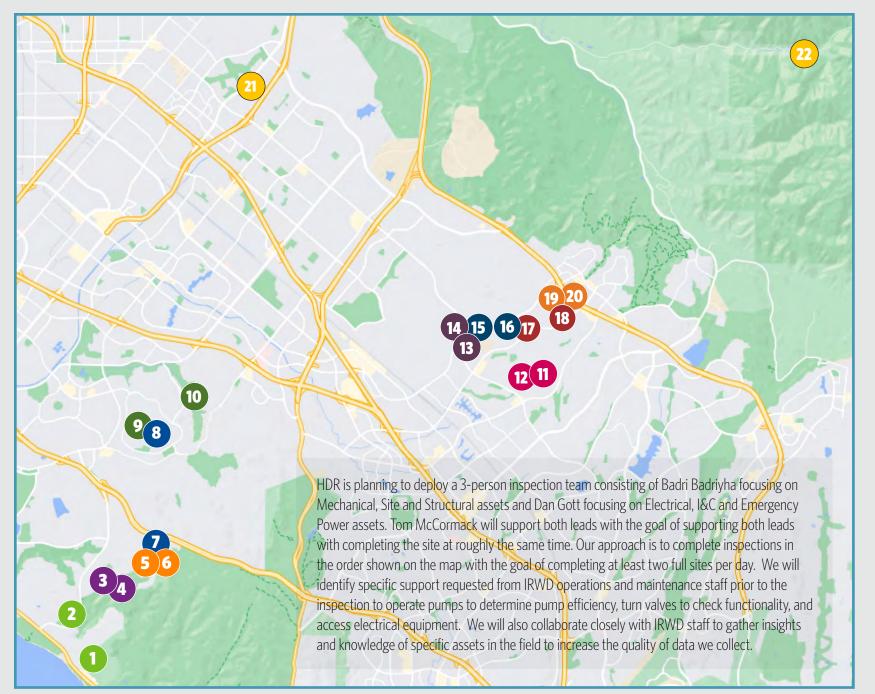
HDR has used this approach for projects including JCW and Springfield and it provides a positive way forward when these difficulties are encountered.

| KEY ISSUE   | OUR PROPOSED SOLUTION   | BENEFIT TO IRWD  | WHERE WE'VE DONE<br>THIS BEFORE                                      |
|---|---|--|--|
| Estimating Remaining Useful<br>Life Based on Nominal Life and<br>Age is Inaccurate at Asset Level.<br>A typical method for estimating<br>remaining useful life is to use asset<br>age and nominal life. This method<br>is inaccurate at the asset-level since<br>actual asset life will depend on many<br>factors including whether the asset<br>was install correctly, how well the<br>asset is maintained, the operating<br>environment, etc. | Use Available Knowledge of Operating<br>Conditions, Maintenance Context, Visual<br>Observations and Predictive Data to<br>Evaluate Remaining Useful Life. HDR will<br>use available data and knowledge of assets<br>to estimate remaining useful life at the asset<br>level. For maintenance assets, HDR will utilize<br>the 1 to 5 condition scoring collected at the<br>asset level to estimate the percentage of<br>nominal life remaining. For capital assets, HDR<br>will incorporate additional criteria to further<br>refine this evaluated remaining useful life. | Improved Decision-<br>Making and Investment<br>Timing. Having a more<br>accurate estimate of<br>remaining useful life will<br>enable IRWD. | Johnson County<br>Wastewater Facility<br>Asset Management<br>Program |
|   |   | HDR used co  | ondition assessment  |



HDR used condition assessment data to evaluate the remaining useful life of assets. Original remaining useful life estimates using age and nominal life resulted in many asset with negative remaining useful life indicating these assets were beyond useful life. Evaluation of the remaining useful life based on analysis of condition assessment and maintenance data resulted in remaining useful life estimate more aligned with staff intuition.

# CONDITION ASSESSMENT FIELD INSPECTION PLAN



# **FIELD INSPECTION WORK PLAN**

A field inspection work plan is a key component before conducting field inspections. The workplan serves as a road map delineating items such as but not limited to accessibility, safety, inspection procedures, data collection, recording protocols, and field forms customized to document observations, inspection efforts, tests, and detailed schedule.

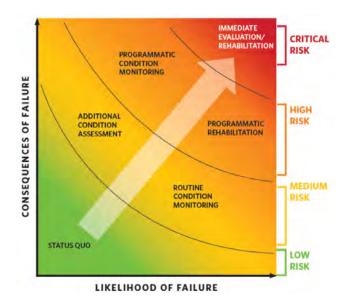
As part of developing the Work Plan, our team will schedule a day of field reconnaissance to visit critical/key pump stations and reservoir/tank sites to better assist in developing the work plan. The field reconnaissance will be schedule about two weeks after the kickoff meeting. A draft work plan will be submitted to IRWD and followed up with a review meeting. Once all review comments are reconciled, the final work plan will be submitted.

|                     |  |  | NUM                                    | BER OF ASSETS                      |       |
|---------------------|--|--|--|------------------------------------|-------|
| GROUP               | 1 Crystal Cove Zn 2-4 PS   |  | Electrical, I&C and<br>Emergency Power | Mechanical, Site<br>and Structural | Total |
| 1                   | 1  | Crystal Cove Zn 2-4 PS                   | 31                                     | 43                                 | 74    |
| I                   | 2  | Coastal Zn 2 Tank                        | 7                                      | 30                                 | 37    |
| 2                   | 3  | Coastal Zn 4 Tank                        | 11                                     | 34                                 | 45    |
| 2                   | 4  | Coastal Zn 4-6 PS                        | 51                                     | 52                                 | 103   |
| Э                   | 5  | Coastal Zn 6 Tank                        | 21                                     | 47                                 | 68    |
| 3                   | 3 6 Coastal Zn G Tank  |  | 4                                      | 21                                 | 25    |
| 7 Coastal Zn G-H PS |  | 35                                       | 38                                     | 73                                 |       |
| 4                   | 48Turtle Rock Zn 3-4 PS  |  | 50                                     | 64                                 | 114   |
| F                   | 9     Turtle Rock Zn 3 Tank       10     Turtle Rock Zn A-B PS (TR Irr)        |  | 16                                     | 32                                 | 48    |
| S                   |  |  | 49                                     | 52                                 | 101   |
| 6                   | 11   | Lake Forest Zn D West Tank (LAWD ZnB)    | 3                                      | 9                                  | 12    |
| 6                   | 12   | Lake Forest Zn 4-5 West PS (LAWD Zn 1-2) | 25                                     | 30                                 | 55    |
| 7                   | 13   | East Irvine Zn 3-4 PS                    | 38                                     | 39                                 | 77    |
| /                   | 13         East Irvine Zn 3-4 PS           14         East Irvine Zn 3 Tank #1 |  | 31                                     | 55                                 | 86    |
| 8                   | 15   | East Irvine Zn 3 Tank #2                 | 12                                     | 22                                 | 34    |
| Ö                   | 16   | East Irvine Zn 4 Tank                    | 9                                      | 38                                 | 47    |
| 9                   | 17   | Foothill Zn 4-6 PS                       | 67                                     | 74                                 | 141   |
| 9                   | 18   | Lake Forest Zn D PS (LAWD Zn B)          | 29                                     | 36                                 | 65    |
| 10                  | 19   | Lake Forest Zn 5 (LAWD Zn 2) West Tank   | 15                                     | 46                                 | 61    |
| 10                  | 20   | Lake Forest Zn 5-6 West PS (LAWD Zn 2-3) | 36                                     | 27                                 | 63    |
| 11                  | 21   | Tustin Ranch 1-3 PS                      | 48                                     | 53                                 | 101   |
|                     | 22   | SCWD Chapman Tank                        | 4                                      | 14                                 | 18    |
|                     |  | Total Assets                             | 592                                    | 856                                | 1448  |

**Badri Badriyha** and **Tom McCormack** recently completed condition assessment inspection and capital improvement project development for mechanical, site and structural assets at City of San Diego's Point Loma Wastewater Treatment Plant. **Dan Gott** recently led the electrical and instrumentation condition assessment inspections for Contra Costa Water District's Treated Water Rehabilitation and Replacement Plan, which included pump stations and tank assessment. **Tom McCormack** configured the data collection tools and performed data management for both projects. Data is stored in a cloud database and available immediately for progress tracking and review. **Together, this team brings to IRWD the experience to efficiently collect high quality data and make the best use of IRWD staff time.**  To develop the initial renewal and improvement options, HDR will focus on the asset-level condition and risk assessment to develop an initial snapshot of asset risks. HDR will develop preliminary assessment factors for Likelihood of Failure (LOF) to combine with the District's Consequence of Failure (COF) for each asset type. The data will be compiled into an Asset Evaluation Database. Risk scores will be calculated for each asset to prioritize maintenance and capital asset needs. An Asset Health Dashboard will provide a visual means to analyze the data to support "drawing the line" on assets requiring near-term investments and those which can benefit from longer planning horizons.

Failure in an asset management framework means not meeting the desired level of service. Level of service is a defined service goal that relates to capacity, availability, structural integrity, reliability, responsiveness, environmental acceptability, and cost. LoF is typically considered as the probability that an event will occur or as the projected frequency of occurrence of an event. Factors to estimate LOF include asset condition, remaining useful life, redundancy and work order history. This LoF score will combine with the District's CoF score for these facilities to determine how each asset compares to each other.

In a workshop we will work with IRWD staff to identify an appropriate mix of LOF factors and then link them to the COF factors to show how the resulting scores relate to achieving service levels. Working with District staff, we will develop weighting factors so that the most important parameters receive the highest weight. This provides alignment between the risk assessment and what is most important to you and your facilities and optimize their performance. The figure below shows where your assets could fall on the risk spectrum.



HDR is not including any additional consequence of failure assessment in the proposed scope and fee and will utilize IRWD's facility level consequence to prioritize projects. IRWD may wish to incorporate asset-level consequence into the assessment to enable the ability to enable the ability to refine project packaging decisions if financial constraints require downsizing the scope of packaged projects.

**F)** 

HDR will then finalize risk scoring that can be presented in the Asset Health Dashboard, similar to the one below that we prepared for the city of Alderwood which shows the risk results for all the assessed assets.



HDR developed tools for the City of Alderwood condition assessment project to support asset management decision-making, including a **business intelligence dashboard** shown here. We can configure the decision-support tool to conform to the City's asset management needs. Mobile data collection tools **save data creation time, improves accuracy**, and can be **used by the City for future assessments.** 



# TASK 3: CAPITAL PROJECT PACKAGING AND PRIORITIZATION

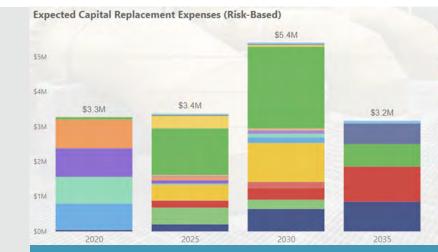
# TASK OBJECTIVE

A well thought-out plan with reliable estimated project costs will help IRWD schedule its repair and rehabilitation efforts over the next decade and beyond to extend asset life and save costs. This task will develop remedial activities, estimate their costs and develop a reasonable schedule for staff to implement.

# TASK DELIVERABLES

Repair and Rehabilitation Recommendations; Estimated Costs for Asset Recommendations; Schedule for Implementation of the Various Recommendations; Workshop Agenda and Minutes.

By prioritizing your capital and operational needs, you will achieve protection of health and safety, reduce risk, extend asset life, and reduce overall costs of your facilities. **Using defensible decisionmaking processes and decision support tools we will help you build an infrastructure plan over a 10-year planning horizon and a longer horizon for more granular efforts when planning long-term renewal efforts. Knowing the deterioration rate of each asset we can estimate how much life remains and what repair or rehabilitation expenditures will be needed to extend the asset life or to replace the asset. This approach will reflect IRWD's utility performance goals, and acknowledge current budgetary and resource constraints and commitments.** 



Example from the City of Alderwood showing capital replacement riskbased expenses for a 15 year period by facility area.

In developing costs, HDR will use existing cost data for similar projects to develop planning level (AACE Class 5) costs. These costs will assist in developing project budgets and scheduling.

HDR will facilitate a workshop to confirm key assumptions, data inputs and methodology used to estimate project costs and schedule. We will also review preliminary observations and CIP recommendations to confirm alignment with your overall goals. We will also review maintenance recommendations for assets that need renewal but may have a lower priority. With input from IRWD staff, we will refine the near-term remedial action recommendations.

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|-----|-------|
|     | IJJUL |

Project Packaging Not Aligned with IRWD Project Delivery Strategy. The assessment will generate a wide array of repair and rehabilitation actions, which will need to be packaged into projects that are ideally aligned with IRWD's strategy for project delivery. If these project packages are not aligned with IRWD's project delivery strategy, this will require the projects to be disaggregated causing additional effort.

#### WHERE WE'VE **OUR PROPOSED SOLUTION BENEFIT TO IRWD DONE THIS BEFORE** Collaborative Process to Understand **Facilitates Constraints** Alderwood **IRWD's Project Delivery Strategies and** Wastewater **Analysis and Optimizing** Funding Constraints. HDR will facilitate **Investment Planning**, **Treatment Plant** a meeting with IRWD staff to understand allowing IRWD to manage **Capital Investment** IRWD's project delivery strategy and rates and cash flow. The **Planning.** HDR remaining useful life of assessed and project packaging preferences. We will create project packages with sub-units assets included in the developed prioritized that can be easily disaggregated, if needed. project package combined project packages Asset level repair and rehabilitation with project prioritization for Alderwood's will enable assignment of decisions will drive the project scope Wastewater

project timing.

and cost.

Treatment Plant.



# TASK 4: FINAL REPORT AND DELIVERABLES

# TASK OBJECTIVE

The Condition Assessment Report will be compiled such that it stands the test of time. We pride ourselves on well written, concise reports with appropriate figures and graphics that convey critical information efficiently and effectively.

# TASK DELIVERABLES

Draft Condition Assessment Report; Comment Response Log; Final Condition Assessment Report.

Clear and concise documentation of the work efforts is a key element for a comprehensive assessment document like your Condition Assessment Report and gathering the information developed in Tasks 2 and 3 requires diligent planning and data management. The Condition Assessment Report will summarize and document the work developed during the assessment and asset investment planning effort, incorporate and integrate evaluations from each task, and provide a comprehensive set of project recommendations for your pump stations and tanks. Our Project Manager, Mike Flores, will lead the Report preparation, keeping your end goals in mind from the start of the project to promote understanding and acceptance of the key findings and recommendations.

Our approach begins with developing a report outline at the start of the project, identifying key elements, and preparing each deliverable



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All deliverables will **document the decisions made** and **data generated** so you can make **informed decisions will into the future.** 

in the prior tasks with the foresight that each will be integrated into the Condition Assessment Report. Upon completion of the analyses and assessments, the recommendations will then be discussed with IRWD staff in a workshop setting. This collaborative process allows for discussion of strategic and creative ideas, tempered with the realities of project execution constraints and affordability. Following this workshop, we will compile a clear and well documented draft Condition Assessment Report for your review and comment.

After IRWD provides comments, HDR will review and respond to those comments, followed by discussion with IRWD staff to address and resolve comments prior to incorporation into the final Condition Assessment Report. The report will be organized in a manner that you can utilize specific sections for presentations to various audiences, whether to your Board, staff, or the public.

| KEY ISSUE   | OUR PROPOSED SOLUTION  | BENEFIT TO IRWD  | WHERE WE'VE<br>DONE THIS BEFORE   |
|---|--|--|---|
| Data is Voluminous and Difficult<br>to Understand. Wading through<br>thousands of data points can be<br>overwhelming. Many professionals<br>are challenged with accessing,<br>handling, and analyzing large volumes<br>of data. Different stakeholders will<br>find value in the data and analysis<br>outcomes at different levels and for<br>different purposes. | Leverage Business Intelligent (BI)<br>Dashboards to Easily Access and<br>Display Data. HDR is proficient in<br>using Microsoft's Power BI to access,<br>query and display data in a simple<br>manner to quickly understand what<br>the data means, key performance<br>indicators, make intelligent decisions<br>and inform stakeholders in a way<br>that builds consensus. | IRWD will have the Tools to<br>Continue BI Access Long After<br>Project is Complete. IRWD is<br>already using Power BI. The HDR<br>Team will be using Power BI for<br>project delivery and will leave these<br>tools and dashboards with IRWD<br>staff so you can continue interfacing<br>with your data and grow with it over<br>the years to come. | City of San Diego,<br>City of Alderwood,<br>and Contra Costa<br>Water District are<br>just a few of the<br>clients that benefitted<br>from the Power<br>BI dashboard. |

## INTEGRATED QUALITY MANAGEMENT SYSTEM APPROACH

Project reviews occur throughout project execution to facilitate communication between the project manager and HDR management. Our quality management system utilizes the data, reports, and figures captured through project controls and project management plan. Managing the quality of deliverables is essential to minimizing cost and schedule overruns on projects.

Because quality is a critical element of our program, we use senior level subject matter experts to conduct an independent review of our deliverables before we submit them to you. This independent review provides consistency in all our deliverables, improves your product because of the depth of experience, and enhances the process for future submittals.

HDR will provide a QA/QC program that adheres to IRWD standards, regulations, policies, and procedures for all work performed for the duration of this contract. Our responsibilities for quality include all levels of HDR personnel-from our Chief Executive Officer to senior management to the project team. Responsibilities are documented in our procedures, defining how HDR delivers products and services to you. Our focus on and attention to quality also extends to our subconsultants, and typically includes our subconsultants developing and submitting a QA/QC Plan for review.

2

#### QUALITY **REVIEW**

Following quality checking, EVIEW the **Originator** submits the deliverable to the **QC Reviewer** to verify deliverables and supporting documents are complete for the relative schedule of release and conform to applicable standards.

Detailed checking occurs between Originator and **Checker** to verify the accuracy of information relative to the intended purpose.

CHECK



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### Our goal is to set the industry benchmark for excellence in services.

We accomplish this through work well done, staying true to purpose, and exercising discipline. To achieve quality in our work, we have developed a Quality Management System (QMS). Our QMS provides an important framework to reach the highest levels of quality-both for you and for ourselves.

We focus on continual opportunities for improvement throughout our daily activities to achieve client satisfaction and meet performance expectations. The QMS includes programs, policies, and business processes for:

- Management Responsibility. Management actively promotes quality in our business activities and defines responsibilities for maintaining our focus on quality.
- Resource Management. Resources are trained, available, and committed to providing quality services.
- Professional Service Delivery. Processes and procedures are in place that promote quality in the delivery of our products and services.
- Measurement, Analysis, and Improvement. Continual improvement is achieved through performance measurement and identification of areas for improvement.



B. TEAM

# **B. TEAM**

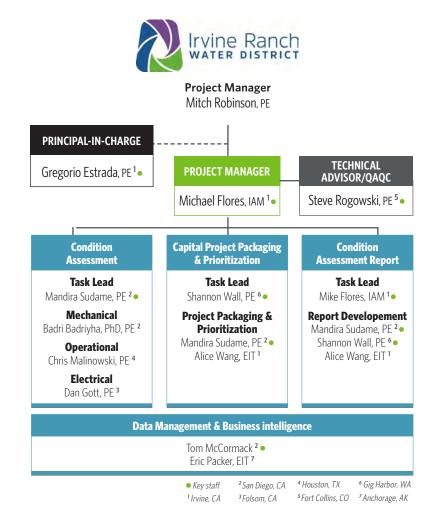
IRWD requires a highly qualified, capable team of experts that can help perform assessment, needs identification and planning required to deliver the Pump Stations and Tanks Condition Assessment Replacement and Rehabilitation Study. HDR is proposing an experienced team of fully committed staff that will work in partnership with your staff.

**Michael Flores** will serve as HDR's Project Manager and your primary point of contact on this project. Michael is a highly experienced project manager, serves as the chair of HDR's Asset Management Practice Group and leads HDR Facility Asset Management initiative. Michael has led facility condition assessment and asset investment planning for the Johnson County Wastewater Facility Asset Management Program and Point Loma Wastewater Treatment Plan Condition Assessment. Michael is also certified by the Institute of Asset Management as an asset management practitioner and is qualified to assess asset management programs to ISO 55000 series standards.

Michael will be supported by technical advisor, **Steve Rogowski**. Steve is a former Operations Manager, Asset Manager and Capital Program Manager for Metro Water Recovery in Denver, Colorado and was responsible for development of capital plans to manage system reliability. His experience working directly with Operations and Engineering staff to assess, identify and plan capital improvements is perfectly aligned with the scope of this project.

Mike is will also be support by task leads, **Mandira Sudame** and **Shannon Wall**. Mandira has more than 20 years of experience and offers our clients a practical design approach as well as easy-to-operate facilities. Mandira recently served as Project Manager for the condition assessment and recommended upgrades for 23 sewer pump stations for the City of San Diego. Shannon Wall has over 31 years of experience and has led asset management program development, capital asset investment portfolio management, and risk-based modeling for decision-making support. Prior to joining HDR, Shannon was the Planning & Engineering Manager at Tacoma Water where she led the development and implementation of the utility's \$50 Million annual water infrastructure capital improvement program.

Complete resumes for staff listed on our organizational chart are available in the Appendix.



#### SCHEDULE OF TIME CONTRIBUTED

#### AVERAGE PERCENTAGE OVER LIFE OF PROJECT (%)

| TEAM MEMBER   CLASSIFICATION            | 5 | 10 | 15 | 20 |
|---|---|----|----|----|
| Michael Flores   Project Manager        |   |    |    |    |
| Steve Rogowski   Technical Advisor/QC   |   |    |    |    |
| Gregorio Estrada   Principal            |   |    |    |    |
| Mandira Sudame   Sr. Technical Expert   |   |    |    |    |
| Shannon Wall   Sr. Technical Expert     |   |    |    |    |
| Chris Malinowski   Sr. Technical Expert |   |    |    |    |
| Badri Badriyha   Sr. Engineer           |   |    |    |    |
| Dan Gott   Sr. Electrical Engineer      |   |    |    |    |
| Tom McCormack   Utility Mgmt Consultant |   |    |    |    |
| Alice Wang   EIT                        |   |    |    |    |
| Eric Packer   EIT                       |   |    |    |    |

The key to efficient project delivery is assigning qualified profession staff who can deliver results. We have established working relationships with many municipalities and water districts and will bring those resources to support this project.



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Michael (Mike) has more than 28 years of experience in the water and wastewater field with a primary focus on infrastructure management, operations, maintenance, and capital program planning. He has managed or served as a senior technical resource on several large and complex

projects, focused on planning and implementing business process changes and information management solutions for wastewater collection system operations, maintenance, and capital planning programs. **Most recently, Michael was the Project Manager for the Orange County Sanitation District's Asset Management Plan Update which provided a roadmap for prioritizing the collection of condition assessment data, analyzing the likelihood and consequences of failure, and documenting the process to developing and updating the District's ongoing capital improvements**.



### STEVE ROGOWSKI, PE 🐬 TECHNICAL ADVISOR

Steve has led asset management program development including facility condition assessment and rehabilitation, maintenance program development and computerized maintenance management system support of reliability initiatives, and facility rehabilitation programs. **He provided leadership across multiple assignments including strategic** 

planning, comprehensive facility planning, and capital program management in excess of \$100M/year. He brings exceptional industry and practical utility experience with maintenance best practices, utility operations, and asset management program element implementation, paired with strong collaboration skills to develop crossfunctional programs to achieve utility objectives.



### **GREGORIO ESTRADA**, PE 🐬 PRINCIPAL IN CHARGE

As the Principal-in-Charge, Gregorio has been working with IRWD for more than 13 years on critical projects ranging from planning, design, and construction. He has successfully delivered large-scale projects in advanced treatment such as IRWD's \$167M Michelson Water Recycling Plant Biosolids and Energy Recovery Facilities as well as IRWD's \$87.5M

Michelson Water Recycling Plant's MBR Facility. He is also highly-skilled in building group-consensus amongst key stakeholders with differing agendas, performing economic evaluations and risk assessments, and assisting in negotiations with regulatory agencies. **His history and relationships with IRWD staff brings a solid understanding of all of IRWD's facilities, design standards, company culture, and staff preferences that will increase our team's efficiency and understanding for this project.** 



**RELEVANT EXPERIENCE** 

- Management Plan
   Johnson County Wastewater, Facility Asset Management Plan
- City of San Diego, Point Loma Wastewater Treatment Plant Facilities Condition Assessment and CIP
- City of Carlsbad, Water, Wastewater and Recycled Water Master Plan
- City of Los Angeles, Sewer Rehabilitation and Replacement Program Plan and Implementation
- Clark County Water Reclamation District, Facility Asset Management Implementation Roadmap

### RELEVANT EXPERIENCE

- Dallas Water Utilities, Water Production Facilities Master Plan
- ✓ IRWD, Placement Planning Model Cost Update
- Metro Wastewater Reclamation District, 2018 Facility Plan
- Johnson County Wastewater, Facility Asset Mgmt. Plan, Ph. 3
- City of Springfield, Southwest Wastewater Treatment Plant Master Plan
- Clarifier Maintenance Program, City of St Petersburg, Florida

#### RELEVANT EXPERIENCE

- Irvine Ranch Water District, Michelson Water Reclamation Plant Expansion
- Irvine Ranch Water District, Water Quality Evaluation for Michelson Water Recycling Plant proposed Diversions to San Diego Creek and Newport Bay
- Irvine Ranch Water District, Biosolids/Energy, Management Plan
- City of San Mateo, Nutrient Removal and Wet Weather Flow Management Upgrade and Expansion



# MANDIRA SUDAME, PE 🕢 CONDITION ASSESSMENT

Mandira has more than 20 years of experience in planning, designing, and constructing wastewater treatment facilities projects throughout Southern California. With her experience, creativity, and strong technical background, Mandira offers our client a practical design approach as well

as easy-to-operate facilities. Mandira understands how to design wastewater facilities that staff can easily operate and run efficiently. **Recently, Mandira managed the condition assessment and recommended upgrades for 23 sewer pump stations for the City of San Diego. As Project Manager, Mandira effectively led the HDR team to deliver the best possible solutions for thr City of San Diego.** 

# **BADRI BADRIYHA**, PhD, PE **7** CONDITION ASSESSMENT (MECHANICAL)

Dr. Badri Badriyha is a Senior Project Engineer in the water group at our San Diego office. Dr. Badriyha has designed drinking water and wastewater treatment plants, pump stations, water transmission pipelines, and sewer systems. Mr. Badriyha conducted his research on

micro- and nano-membrane use for water treatment and reverse osmosis, activated carbon adsorption of synthetic organic compounds, and biodegradation of pesticides in water. **Most recently, Dr. Badriyha completed the condition assessment inspection and capital improvement project development for mechanical, site and structural assets at City of San Diego's Point Loma Wastewater Treatment Plant.** 

# CHRIS MALINOWSKI, PE 🕢 CONDITION ASSESSMENT (OPERATIONAL)

Chris Malinowski's engineering experience stems from his practical and hands-on knowledge of working with and operating pump stations, treatment plants, and water distribution systems. His involvement with start-up of facilities, such as with the City of San Jose, allows him to

look for solutions that will optimize the long-term operations of facilities. Similar to his work for the City of Dallas in assessing and developing a long-range capital improvements plan, Chris will work with the District to evaluate the mechanical, structural and electrical components of the systems to find opportunities for capital and operational improvements. Chris' uncanny ability to anticipate operator's needs has been developed by working with municipalities and other industrial sites.

#### RELEVANT EXPERIENCE

- City of San Diego, Point Loma Wastewater Treatment Plant Facilities Condition Assessment and CIP
- Irvine Ranch Water District, Michelson Water Reclamation Plant Expansion
- Irvine Ranch Water District, Michelson Water Recycling Plant Tertiary Filters Improvements

### RELEVANT EXPERIENCE

- City of San Diego, Point Loma Wastewater Treatment Plant Facilities Condition Assessment and CIP
- ✓ West Basin Municipal Water District, Recycled Water Master Plan Update
- Orange County Sanitation District, Asset Management Plan Update
- Poseidon Resources, Poseidon Ultimate New Intake Evaluation

### RELEVANT EXPERIENCE

- Irvine Ranch Water District, Replacement Planning Model Cost Assumption Update
- Dallas Water Utilities, Water Production Facilities Strategic Plan
- San Jose Water Company, Montevina Water Treatment Plant Improvements Progressive Design-Build



# **DAN GOTT**, PE **(CONDITION ASSESSMENT**) (ELECTRICAL)

Dan has more than 29 years of experience administering and directing all aspects of electrical, instrumentation, and control systems for water, wastewater, and industrial facilities and systems. His experience has included planning, design, programming and configuration, construction

support, equipment inspection and testing, facility startup, and training in system operations and maintenance (O&M) for water, wastewater treatment plants and pumping stations. Dan recently led the electrical and instrumentation condition assessment inspections for Contra Costa Water District's Treated Water Rehabilitation and Replacement Plan.

#### RELEVANT EXPERIENCE

- ✓ Contra Costa Water District, Treated Water Rehabilitation and Replacement Plan
- Irvine Ranch Water District, Michelson Water Reclamation Plant
- Irvine Ranch Water District, Cienega Selenium Treatment Facility
- Central Coast Water Authority, Asset Management / Capital Improvement Program (CIP) Process Review



# SHANNON WALL, PE 🕢 CAPITAL PROJECT PACKAGING AND PRIORITIZATION LEAD

Shannon Wall is a licensed electrical engineer with over 31 years of experience in engineering, asset management, and utility management. Shannon has experience in leading asset management program development, capital asset investment portfolio

management, and risk-based modeling for decision-making support. In her role as Planning & Engineering Manager at Tacoma Water, Shannon led the development and implementation of the utility's \$50 Million annual water infrastructure capital improvement program.



- Tacoma Water, Planning & Engineering Manager
- Tacoma Power, Asset Investment Planning Manager
- Los Angeles Department of Water and Power, Asset Management Program Implementation
- ✓ Idaho Power, Asset Management Strategic Plan



# ALICE WANG, EIT 🕢 PROJECT PACKAGING & PRIORITIZATION / REPORT DEVELOPMENT

Alice has worked on a variety of HDR's water and wastewater treatment projects throughout Texas and California. Responsibilities include analyzing drinking and sewage water quality data, performing condition assessments, providing construction services such as design

calculations and submittal reviews, developing design plans and details, and modeling using GIS. Alice delivers enthusiasm, great attention to detail, strong communication, and a positive attitude within a team environment. Alice has worked on several IRWD projects such as the Sewage Treatment Master Plan and the Salt Model Refresh Update bringing familiarity of your standard and protocols.



#### **TOM McCORMACK (A)** DATA MANAGEMENT/ BUSINESS INTELLIGENCE

Tom is a utility performance and information technology expert with 7 years of experience. His background includes work in Asset Management/CMMS development and updates to new systems as well as design, development, and implementation of new databases

primarily in Microsoft Access. Tom has performed a wide range of work in ESRI ArcGIS using ArcSDE geodatabases and tools to manage geospatial data. **Tom has worked** with Michael on the most recent OCSD Asset Management Plan Update where he served as Utilities Lead.

## ERIC PACKER, EIT 🕢 DATA MANAGEMENT/ BUSINESS INTELLIGENCE

Eric is a business intelligence engineer and deputy-lead of HDR's national Power BI technology group. Eric's education background bridges mechanical engineering and data science, and his professional focus is on applying next-generation technology solutions to support data-driven

engineering management decisions. Eric supports utility management projects throughout the country, and has developed custom data analysis solutions for clients in Washington, Idaho, New York, Texas, Tennessee, North Carolina, Nevada, and Alaska in the past year. Eric developed Asset Management Business Intelligence Tools for Alderwood Wastewater Treatment Plant and will be leading development of business intelligence tools on this project.

### $\sim$ RELEVANT EXPERIENCE

- Irvine Ranch Water District, Sewer Treatment Master Plan
- ✓ Irvine Ranch Water District, Salt Model Update
- Goleta Water District, Corona Del Mar Water Treatment Plant Asset Inventory
- Orange County Sanitation District, Asset Management Plan Update
- Burbank Water and Power, Risk and Resilience Assessment and Emergency Response Plan for Compliance with America's Water Infrastructure Act

### RELEVANT EXPERIENCE

- Contra Costa Water District, Treated Water Rehabilitation and Replacement Plan
- City of San Diego, Point Loma Wastewater Treatment Plant Facilities Condition Assessment and CIP
- City of San Diego, Recycled Water System Condition Assessment and Optimization Plan
- Orange County Sanitation District, Asset Management Plan Update

### RELEVANT EXPERIENCE

- ✓ City of Homer, Asset Management Plan
- City of Angleton, WWTP and Lift Station Assessment
- ✓ AWWU, ERWWTF Asset Management Plan
- Johnson County Wastewater, Integrated Plan Delivery
- Galveston County, WWTP Conditions Assessment





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# C. EXPERIENCE

Our team has worked on several similar projects to yours. The following projects below represent successful partnerships with our clients - providing cost-saving solutions, reaching performance goals, and creating programs that are right-sized for each client.

### 2021 Treated Water Master Plan

CONTRA COSTA WATER DISTRICT

HDR is developing a comprehensive, integrated water master plan that identifies capital improvements needed to meet current demands and expand the distribution system to accommodate future growth. The treated water distribution system consists of approximately 820 miles of pipeline, 40 water storage reservoirs with a total treated water storage capacity of approximately 72 million gallons, 31 pumping stations, and eight pressure zones. HDR updated water demand projects for existing and buildout conditions, updated the hydraulic model, and identified and developed capital improvements needed to address system deficiencies for existing, intermediate, and buildout conditions. The District desired to develop a proactive planning roadmap for its future, building on the diligent planning and sustainable maintenance programs already being implemented to deliver an uninterrupted supply of water to customers in an economically efficient and environmentally responsible manner. The master plan update provided an opportunity to evaluate existing and future conditions and identify potential responses for operational improvement and capital investment, as well as updating District planning tools for both current and ongoing decision making. HDR's team developed an effective Treated Water Master Plan for the District that provided the right balance to consider replacing aging infrastructure, as well as verifying reliability and increasing capacity in order to meet growth and development.

The master plan integrated evaluations and recommendations from the District Treated Water Pipeline Renewal and Replacement Study, which developed a sustainable, data-driven program for pipeline renewal and replacement that could be improved over time as better data are developed and analyses are refined. Guidelines and procedures were developed during this project that were integrated with the District's existing processes to provide a sustainable solution. HDR developed a sustainable, 10-year pipeline renewal/replacement plan that provided the District with the ability to consistently make key capital-funding decisions for pipeline replacement. The approach developed pipeline risk factors (condition, likelihood of failure, and consequence of failure) to more effectively assess remaining useful life, calculate risk, and prioritize pipeline replacement.

**Control of Costs:** HDR is completing the project within budget. Project costs and metrics were tracked internally and reported monthly in client progress summaries.

**Quality of Work:** HDR has a strong working relationship with Client and continues to provide support services and evaluations on the Client systems. HDR selection for ongoing work is due to the quality of the project team and the work products delivered to the Client. **Ability to Meet Schedule:** HDR is on target to meet all project deadlines. Schedules and milestones have been reviewed and coordinated with Client throughout the project duration.

**CLIENT REFERENCE** Jill Mosley, Senior Engineer; Contra Costa Water District, Contra Costa, CA P: 925.688.8127 E: jmosley@ccwater.com **DATES** 2020 - Ongoing

**CONTRACT VALUE** \$280K

The Treated Water Master Plan successfully executed a basis of planning approach, using early workshops to identify water supply boundaries, criteria, and level of service goals, which informed the analysis and evaluations of subsequent tasks.

### Point Loma Wastewater Treatment Plant Facilities Condition Assessment and CIP

#### CITY OF SAN DIEGO

HDR completed a comprehensive system based, plant wide condition assessment of all liquid and solids process areas at the Point Loma Wastewater Treatment Plant (PLWTP) including the Gas Utilization Facility. PLWTP is the City of San Diego's largest wastewater treatment facility and has been operated since 1963 with several upgrades and modifications over the years. The last major upgrade occurred in the late 1990s under the Clean Water Program. PLWTP has a design capacity of 240 million gallons per day (mgd), a peak wet weather capacity of 432 mgd, and it treats an average flow of about 139 mgd.

The objective of this project included reducing maintenance efforts and running PLWTP more efficiently by:

- Assessing condition of structural, mechanical, and electrical components of assets within each process area
- Making recommendations for repair and rehabilitation
- Identifying upgrades and replacements
- Prioritizing improvements and presenting a preliminary schedule

HDR has conducted visual inspections and non-destructive tests to assess physical condition and functional characteristics of equipment and structures related to each process. HDR developed customized criteria specific assessment forms to inspect each asset within a process area. The assessment forms were developed for structural, mechanical and electrical components of each asset. ArcGIS's cloudbased Survey 123 platform was used to gather the inspection data.

HDR performed visual assessments of all 80+ asset classes at the Point Loma WTP using objective and consistent criteria; assessed asset risks and remaining useful life; and displayed the results using Power BI business intelligence tools. Our results identified a 10-year capital improvements and operations plan, allowing the City to budget and plan without interruption to service.



**F)**?

We developed a risk assessment framework to analyze the likelihood of failure and consequence of failure. This led to the development of a risk assessment strategy with a targeted timeframe to address each risk category.

We analyzed data collected during field inspection efforts and developed recommendations on projects for repair, rehabilitation, and replacement. The projects are categorized as activities that can be performed with City crews and as capital projects that require budgeting and scheduling. Costs were developed using a Class 5 cost estimate format. The final condition assessment report summarized the findings and recommendations.

**Control of Costs:** HDR completed the work on budget, including the increases the City added to cover additional scope items requested by the Client.

**Quality of Work:** HDR performed QC on the asset data, reports and cost estimates that allowed the City to clearly present options to stakeholders.

**Ability to Meet Schedule:** All work and deliverables were provided on the mutually adjusted timeline that the parties adapted to perform field assessments during the height of the pandemic.

CLIENT REFERENCE Yazmin Morlan, Project Manager; City of San Diego, CA P: 619.432.9785 E: YMorlan@sandiego.gov

**DATES** 2019 - 2022

CONTRACT VALUE \$1.58M

### **Facility Asset Management Plan**

JOHNSON COUNTY WASTEWATER (JCW)

HDR is providing implementation support for Johnson County Wastewater's Facility Asset Management Program. This program is focused on the improved usage of data and best practices to drive asset management decisions for pump station and treatment plant assets. This is enabling JCW to improve confidence in planning and delivery of renewal and improvement projects, operation and maintenance programs, and forecasting the corresponding CIP and O&M budgets needed to sustain a high level of service.

This program began with the assessment of JCW's current practices and identification of over 80 opportunities for improvement by the team and JCW. HDR facilitated a series of workshops to refine, prioritize and organize a multi-year implementation plan to improve asset management using a continual improvement approach.

HDR has focused on implementing near-term improvements to provide immediate benefits to JCW. This includes refining JCW's Asset Hierarchy within the Lucity CMMS. Early implementation efforts also focused on developing JCW's condition assessment program. HDR supported JCW with developing asset class inspection and scoring criteria to support consistent data collection. HDR and JCW staff conducted pilot inspections to test the inspection process leading to improvements in inspection criteria selection and increases in data collection efficiency. HDR also supported JCW with implementing risk assessment within wastewater facilities at the facility, process and asset levels. HDR also worked with JCW staff to develop asset onboarding protocol with a webbased portal to coordinate efforts between construction projects and maintenance activities to align asset data management with the program goals. These initial improvements to the condition assessment program, risk assessment and asset hierarchy have served as fundamental building blocks to help JCW achieve their long-term program goals.

**Control of Costs:** HDR has consistently completed project scope and achieved project goals on the Facility Asset Management Program within the authorized project budget. At the same time, HDR has continuously finds cost savings for O&M and capital projects.

**Quality of Work:** Client continues to expand scope and re-select HDR because of our quality performance.

Ability to Meet Schedule: Routinely meet interim and final milestones.

CLIENT REFERENCE Aaron Witt, Chief Engineer; Johnson County Wastewater, Johnson County, KS P: 913.715.8546 E: Aaron.Witt@jcw.org DATES 2016 - Ongoing CONTRACT VALUE \$835K



HDR is providing wide array to technical support to JCW to implement the Facility **Asset Management Program ranging** from asset management professionals, business analysts, condition assessment specialists, and information technology experts. HDR is bringing the right resources to the team to drive project success and to deliver results efficiently and with high quality. One example is the development of the condition assessment program, which required asset management professionals to reengineer the condition and risk assessment business processes, condition assessment specialists to work with JCW maintenance staff to refine assessment criteria and data collection forms, and information technology expertise to configure data collection devices and changes to JCW's Lucity maintenance management system to store the new data.



### **Tank Rehabilitation Master Plan**

LONG BEACH WATER DEPARTMENT (LBWD)

The Long Beach Water Department owns 36 steel water tanks located at two tank farms: the Alamitos Reservoir complex and the J. Will Johnson Reservoir complex. The Alamitos Reservoir complex contains 21 potable water tanks and 3 recycled water tanks. J. Will Johnson Reservoir complex contains 12 potable water tanks. HDR provided engineering services for assessment and evaluation of existing interior coating, corrosion, cathodic protection, structural integrity, and seismic safety at all 36 water tanks.

Services included field investigations and developing and engineering report (Master Plan) detailing the findings of each tanks condition assessment, including existing interior coating and its estimated remaining useful life, sufficiency of current cathodic protection system, seismic risk for the tanks structure, and piping and appurtenances.

The Master Plan provides recommendations for rehabilitating each tank focusing on deficient items that may impact tank structural integrity, a tank rehabilitation schedule by priority, and the interim potential remedial methods to protect the current shell coating. HDR also supported Long Beach Water Department with converting Alamitos Tank 19 and Tank 20 from potable water to recycled water and designed a new pump station, including all of the associated mechanical, electrical and instrumentation infrastructure.

**Control of Costs:** HDR completed all tasks under budget. **Quality of Work:** HDR's approach and results focused the client on priorities.

Ability to Meet Schedule: All tasks were completed on schedule.

CLIENT REFERENCE Danna Monzon, Project Manager; Long Beach Water Department, Long Beach, CA P: 562.570.2325 E: Danna.Monzon@lbwater.org **DATES** 2019 - 2021

**CONTRACT VALUE** \$321K

**F)**?

HDR provided a consistent and comprehensive assessment of 36 reservoirs to prioritize the improvements over 15 years, allowing the City to make the needed investments at the right time.



### **Recycled Water Condition Assessment & Optimization Plan**

CITY OF SAN DIEGO

HDR completed the San Diego Recycled Water Condition Assessment and Optimization Plan in 2020. We performed a market assessment for expansion of the non-potable system, hydraulic modeling and optimization of the distribution system operations, condition assessment of the 20 year old infrastructure, prioritization of asset improvements, conducted life cycle analyses, prepared business case evaluations for recommended projects, and developed a CIP schedule.

Using data from the City's EPANET hydraulic model we developed a criticality analysis of pipelines and valves, which informed consequence of condition assessment, rehabilitation and replacement projects. Through extensive field work and a desktop risk and performance analyses, we worked closely with City staff to identify pipeline, pump station, reservoir, chlorination facility and valve deficiencies to develop solutions that minimized risk and streamlined operations.

A final Recycled Water Master Plan and Condition Assessment report included several memoranda including SCADA, condition assessment and O&M manuals. Because of the excellent work we accomplished in doing condition assessment work for the recycled water system, we were asked to present a 4-day workshop to 40 of the City's potable water operations staff. The HDR team developed curricula for pipeline, pump station, valves and reservoirs assessment and attendees were awarded continuing education credits. *Control of Costs:* HDR completed the project within budget. *Quality of Work:* Client's satisfaction with primary scope items initiated additional tasks and emergency assistance by HDR. *Ability to Meet Schedule:* HDR met all project deadlines.

**CLIENT REFERENCE** Hooman Partow, Recycled & Potable Water Program Manager; City of San Diego, CA P: 619.533.7577 E: hpartow@sandiego.gov

DATES 2018 - 2021 CONTRACT VALUE \$1.68M **F)** 

In collaboration with City staff, HDR developed a transparent assessment process, providing the basis of a 20-year CIP and Operations Master Plan, and equipped staff with the tools and training to continue the assessment process into the future.



### **Carlsbad Water, Wastewater and Recycled Water Master Plan**

CITY OF CARLSBAD

HDR prepared Potable Water, Recycled Water and Sewer Master Plan Updates for the City of Carlsbad to identify needed improvements for existing and future conditions and development of a capital improvement plan to address deficiencies. To ensure consistency among the data analyzed, assumptions made, HDR took a basis of planning approach, so that the master plan documents are compatible, reliable, and defendable.

Over the past decade, the economic recession, combined with a multi-year drought, resulted in significantly reduced water and recycled water demands and sewer flows, and consequentially reduced revenues to Carlsbad. As the economy rebounds and extreme drought conditions recede, there is also a need to adjust the current plans to correspond with the new General Plan, to reflect a "new normal" in water use behaviors, and to incorporate new opportunities for supplies. By updating these three master plans, the resulting capital improvement programs will help guide Carlsbad in spending precious funds in the most cost-effective manner.

As part of this effort, HDR created a new water demand forecasting tool to help Carlsbad assess variables associated with water demand projections. The demand forecasting model developed for this Master Plan update incorporated the following elements:

- Spatial correlation of water demands at the parcel/TAZ level
- Alignment with SANDAG TAZ data, City's land use databases, general plan and other planning resources
- Integration with other platforms: hydraulic models/GIS DB/AM
- User friendly graphic and model interface dashboards

- Incorporation of potential water conservation savings into demand projections
- · Bookend Forecasting for low, medium, and high ranges
- Scenario-based forecasting
- · What-ifs and sensitivity analysis

**Control of Costs:** HDR completed the project within budget. Project costs and metrics were tracked internally and reported monthly in client progress summaries.

**Quality of Work:** Client continues to re-select HDR for ongoing services due to the quality of work performed and value of knowledge delivered.

**Ability to Meet Schedule:** HDR met all project deadlines due to coordination with Client throughout the project duration.

CLIENT REFERENCE Stephanie Harrison, Asset Manager; City of Carlsbad, CA P: 760.603.7356 E: Stephanie.Harrison@carlsbadca.gov

**DATES** 2017 - 2021

**CONTRACT VALUE** \$1.12M

**F)** 

To prioritize operational and capital efforts, HDR used a performance based approach to evaluate the Carlsbad Water Facilities and produced a 10-year outlook that saves the City \$13M per year.



### **AWIA Risk & Resilience and Emergency Response Planning Support**

BURBANK WATER & POWER

Following the seven-step J100-10 process, as detailed by the American Water Works Association, HDR led a series of workshops to identify BWP's critical assets and determine their vulnerability to likely threats from both malevolent acts and natural hazards. HDR developed and used an Excel-based tool facilitate the process and document the J100-10 requirements. The process also included evaluating cyber systems, financial systems, and chemical storage for vulnerabilities. Using this information, we evaluated the consequences and risks of failure to develop mitigation measures.

HDR also assisted BWP with updating its Emergency Response Plan and conducted training of staff on using the ERP and responding to emergencies. The HDR team worked closely with BWP staff to develop the ERP and customize the operational requirements of BWP. Our innovative approach to ERP planning allows BWP staff to quickly transition into emergency response positions from their day-to-day roles.

Based on these collaborative efforts, BWP properly and timely certified compliance with the strict deadlines established by law.

**Control of Costs:** HDR provided monthly updates on the budget and percent spent, which allowed the client to track that the project costs were staying within budget.

**Quality of Work:** The HDR team provided high quality, detailed documents that the Client used to document next steps and garner approval for projects.

**Ability to Meet Schedule:** The project had regulatory deadlines and HDR beat these deadlines, helping the client to avoid penalty charges.

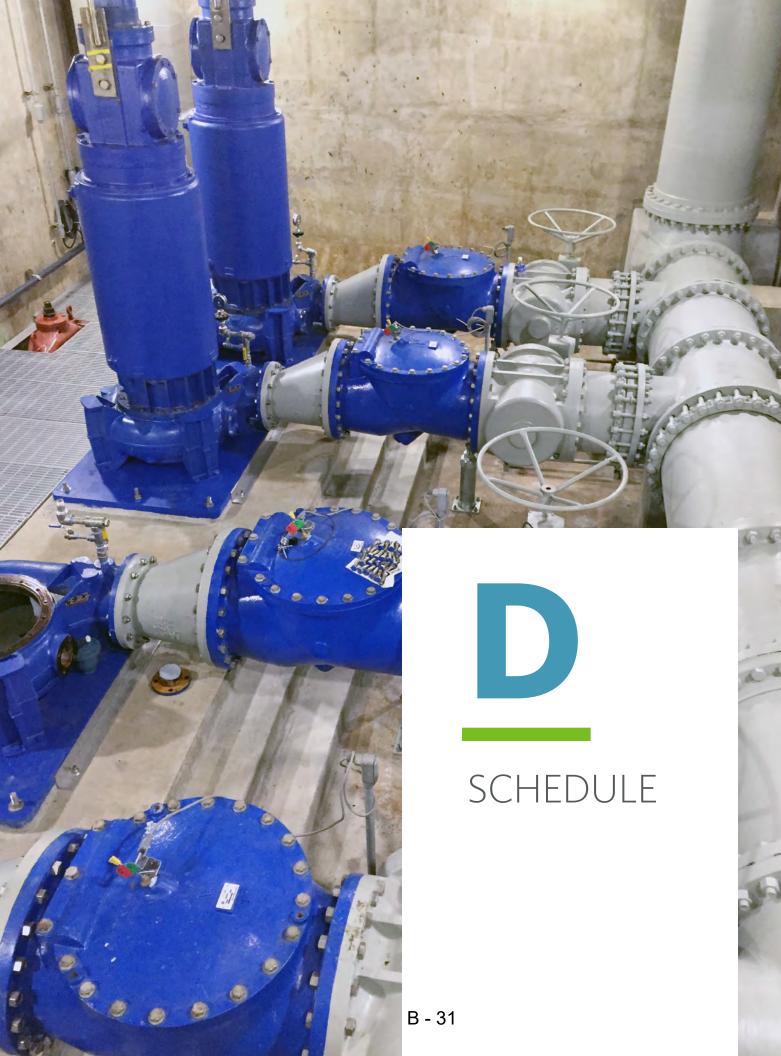
| CLIENT REFERENCE                       |  |
|--|--|
| Asif Sheikh, Principal Civil Engineer; |  |
| City of Burbank Water and Power, CA    |  |
| P: 818.238.3500                        |  |
| E: ASheikh@burbankca.gov               |  |
|  |  |

**DATES** 2019 - 2020

**CONTRACT VALUE** \$225K

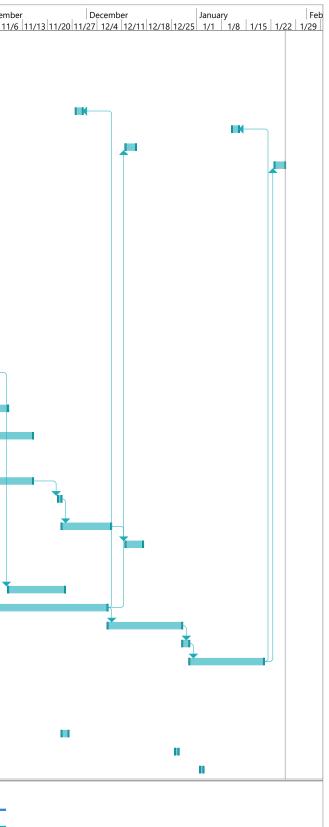
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Working closely with City staff, we identified and focused on critical assets to maximize return on investment and improve the overall resiliency of the system.



# **D. SCHEDULE**

| 1 <b>1</b><br>2 |            |  |                 |              |          | July        |              |              |           |          |                  | ber      |
|-----------------|------------|--|-----------------|--------------|----------|-------------|--------------|--------------|-----------|----------|------------------|----------|
|                 |            | Project Management   |                 |              | 6/19 6/2 | 26 7/3 7/10 | 7/17 7/24 7/ | /31 8/7 8/14 | 8/21 8/28 | 9/4 9/11 | 1 9/18 9/25 10/2 | 2   10/9 |
|                 |            | NTP  | Tue 6/28/22     | Tue 6/28/22  |          |             |              |              |           |          |                  |          |
| 3 1             | 1.1        | Kickoff Meeting  | Wed 7/6/22      | Wed 7/6/22   |          | <b>4</b>    |              |              |           |          |                  |          |
|                 | .2         | Project Management Plan  | Wed 6/29/22     | Tue 7/12/22  |          |             |              |              |           |          |                  |          |
|                 | l.5a       | Draft Report QA/QC   | Mon 11/28/22    |              | 1        |             |              |              |           |          |                  |          |
|                 | L.5b       | Final Report QA/QC   | Wed 1/11/23     | Thu 1/12/23  |          |             |              |              |           |          |                  |          |
|                 | 1.6        | Present Draft Condition Assessment   | Mon 12/12/22    |              |          |             |              |              |           |          |                  |          |
|                 | 1.7        | Present Final Condition Assessment   | Mon 1/23/23     | Wed 1/25/23  |          |             |              |              |           |          |                  |          |
| 9 2             |            | Condition Assessment   | 111011 1/23/23  | WCu 1/25/25  |          |             |              |              |           |          |                  |          |
| 10 2            |            | Request, Compile & Review Data   | Wed 7/6/22      | Thu 7/21/22  |          | _           |              |              |           |          |                  |          |
|                 | 2.2        | Meeting – Review Assessment Approach and Preview Assessment                              | Mon 7/18/22     | Thu 7/21/22  |          |             |              |              |           |          |                  |          |
|                 |            | Criteria   | 1011 // 10/22   | 1110 7721722 |          |             |              |              |           |          |                  |          |
| 12 2            | 2.3        | Develop Draft Assessment Criteria and Guidelines   | Wed 7/6/22      | Tue 7/26/22  |          |             |              |              |           |          |                  |          |
| 13 2            | 2.4        | Configure Draft Criteria into Survey123 Data Collection Forms                            | Wed 7/27/22     | Mon 8/8/22   |          |             |              |              |           |          |                  |          |
| 14 2            | 2.5        | Workshop - Review Assessment Criteria and Data Collection Forms                          | Wed 8/10/22     | Mon 8/15/22  |          |             |              | T I          |           |          |                  |          |
| 15 2            | 2.6        | Finalize Assessment Criteria and Configure into Survey123                                | Tue 8/16/22     | Mon 8/22/22  |          |             |              |              |           |          |                  |          |
| 16 2            | 2.7        | Field Inspection Workplan  | Fri 7/22/22     | Thu 8/11/22  |          |             | <b>*</b>     |              |           |          |                  |          |
| 17 2            | 2.8        | Meeting – Pre-Assessment Orientation   | Fri 8/19/22     | Tue 8/23/22  |          |             |              | 1            |           |          |                  |          |
| 18 2            | 2.9        | Conduct Assessment Field Data Collection   | Wed 9/14/22     | Tue 10/18/22 |          |             |              |              |           | <u> </u> |                  |          |
| 19 2            | 2.10       | Determine Likelihood of Failure and Remaining Useful Life                                | Wed 9/28/22     | Tue 11/1/22  |          |             |              |              |           |          |                  |          |
| 20 3            | 3          | Capital Project Packaging and Prioritization   |                 |              |          |             |              |              |           |          |                  |          |
| 21 3            | 3.1        | Identify Remediation Actions Designed to Reduce Asset Likelihood of Failure              | Wed 9/28/22     | Tue 11/8/22  |          |             |              |              |           |          |                  |          |
| 22 3            | 3.2        | Analyze Remediation Action Alternatives for Capital Assets                               | Wed 10/5/22     | Tue 11/15/22 |          |             |              |              |           |          |                  |          |
| 23 3            | 3.3        | Meeting – Discuss Project Delivery Mechanisms, Funding and Philosophy                    | Wed 9/28/22     | Tue 10/4/22  |          |             |              |              |           |          |                  |          |
| 24 3            | 3.4        | Combine Asset-Level Remediation Actions into Project Packages                            | Wed 10/5/22     | Tue 11/15/22 |          |             |              |              |           |          |                  |          |
|                 | 3.5        | Workshop – Review Project Packages with Alternatives and Select<br>Preferred Alternative | Wed 11/23/22    |              |          |             |              |              |           |          |                  |          |
|                 | 3.6        | Prioritize Repair and Rehabilitation Project Packages                                    | Thu 11/24/22    | Wed 12/7/22  |          |             |              |              |           |          |                  |          |
| 27 3            |            | Meeting – Review Prioritized Repair and Rehabilitation Project<br>Packages               | Mon 12/12/22    | Fri 12/16/22 |          |             |              |              |           |          |                  |          |
| 28 4            | -          | Final Report and Deliverables  | March 44 /0 /22 | Th 44/24/22  |          |             |              |              |           |          |                  |          |
| -               | 1.1<br>1.2 | Generate Asset-Level Condition Assessment Reports  | Wed 11/9/22     | Thu 11/24/22 |          |             |              |              |           |          |                  |          |
|                 | +.∠        | Develop Draft Condition Assessment Report  | Wed 10/19/22    |              |          |             |              |              |           |          |                  |          |
| 31              | 12         | IRWD Review - Draft Condition Assessment Report  | Wed 12/7/22     | Tue 12/27/22 |          |             |              |              |           |          |                  |          |
|                 | 1.3<br>1.4 | Meeting – Review Draft Condition Assessment Report Comments                              | Wed 12/28/22    |              |          |             |              |              |           |          |                  |          |
|                 | 1.4        | Finalize and Deliver Condition Assessment Report   | Fri 12/30/22    | Thu 1/19/23  |          |             |              |              |           |          |                  |          |
| 34              |            | Holidays   |                 |              |          |             |              |              |           |          |                  |          |
| 35              |            | Independence Day   | Mon 7/4/22      | Mon 7/4/22   |          | II          |              |              |           |          |                  |          |
| 36              |            | Labor Day  | Mon 9/5/22      | Mon 9/5/22   |          |             |              |              |           |          |                  |          |
| 37              |            | Thanksgiving   | Thu 11/24/22    | Fri 11/25/22 |          |             |              |              |           |          |                  |          |
| 38              |            | Christmas  | Mon 12/26/22    |              |          |             |              |              |           |          |                  |          |
| 39              |            | New Year's   | Mon 1/2/23      | Mon 1/2/23   |          |             |              |              |           |          |                  |          |





# **E. BUDGET**

#### FEE ENCLOSED SEPARATELY

One copy of the budget proposal, including fee schedules and breakdown of the fee by task, is submitted separately in a sealed envelope per the RFP.

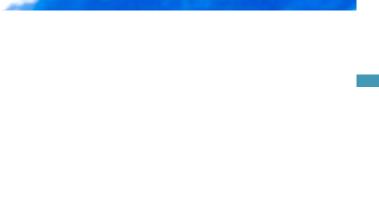


# JOINT VENTURE

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# F. JOINT VENTURE

HDR is submitting as the prime consultant and not as a joint venture.

We will not be utilizing any subconsultants on this project.

# CONFLICT OF INTEREST

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# **G. CONFLICT OF INTEREST**

We know there is potential for a conflict of interest when a firm works with a number of clients. And because we work with a lot of public agencies, the possibility of working with two agencies simultaneously that have conflicting interests does exist.

We are not aware of any projects or relationships that would cause a conflict-of-interest on this project. We have a strong set of protocols and guidelines in place to handle possible conflicts of interest. The following four points are keys to our Policy for Conflict of Interest Resolution:

#### **EDUCATION**

We educate employees on the principles of conflict-of-interest prevention. Employees are provided with a written policy outlining Engineering Business without Conflict.

#### DISCLOSURE

We fully disclose to each client any relationships, contracts, or teaming agreements that might present a conflict of interest or provide an unfair business advantage. Each person working on a project is responsible to disclose any circumstances that could present a conflict of interest.

#### DELINEATION

We structure teams and assign personnel in ways that avoid inappropriate sharing or crossover of confidential or sensitive information. When necessary due to project circumstances, individuals who are positioned on teams where information-sharing would present a conflict are reassigned to maintain clear separation between project teams.

#### **DOCUMENTATION**

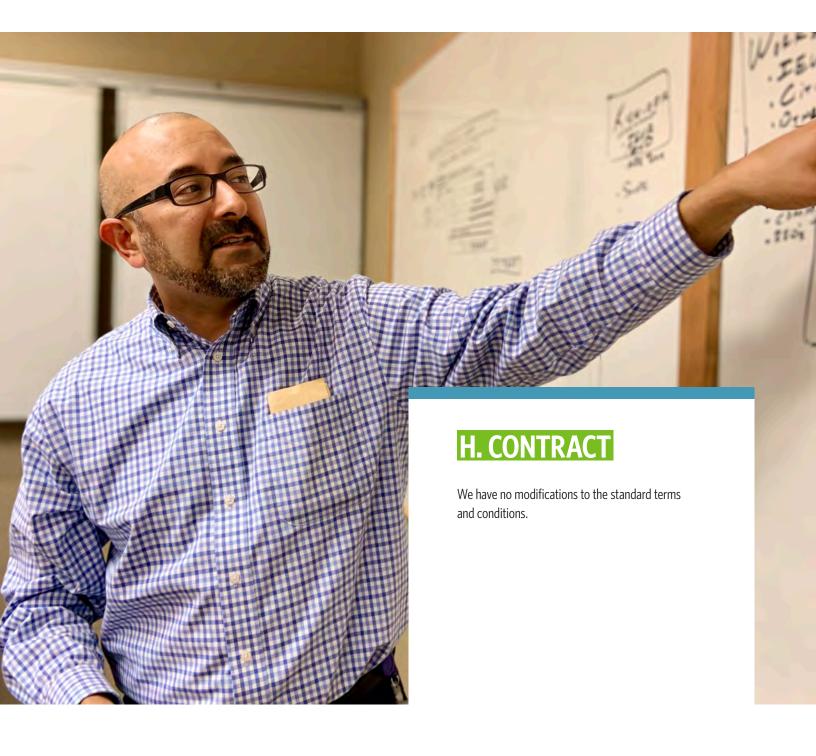
We require formal commitment from our personnel with regard to avoiding conflict of interest. When necessary due to project circumstances, we require employees to sign a "Firewall Agreement Form" tailored to the client/project in question to formalize their commitment to maintaining separation between internal teams and/ or sources of information that could give rise to a conflict of interest or unfair business advantage.

It is our understanding that HDR does not have any existing conflicts of interest prohibited by law to submit for the Pump Stations and Tanks Condition Assessment Replacement and Rehabilitation Study.





H. CONTRACT







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|  |  |             |              | Pump Stations and Tank                           | ks Condi           | tion Assess          | sment керіа                             | cement and Renabilitat  |                | зу                      |
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|  | lis Towers Watson Midwest, Inc.<br>26 Century Blvd   |             |              |  |                    | <u>=xt)</u> : 1−877- |   |   | 1-888          | -467-2378               |
|  | . Box 305191   |             |              | -  | E-MAIL<br>ADDRESS  |                      | cates@willi                             |   |                |                         |
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| HDR                                    | Engineering, Inc.  |             |              |  |                    |                      |   | Corporation   |                | 42404                   |
|  | 7 South 67th Street<br>ha, NE 68106  |             |              | -  | INSURER            |                      |   | _   |                |                         |
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| A                                      | X Contractual Liability  | Y           | Y            |  | 1 06/01/2          |                      |   | MED EXP (Any one person)  | \$             | 10,000                  |
|  | X Deductible: \$100,000  |             |              | TB2-641-444950-031                               |                    | 6/01/2021            | 06/01/2022                              | PERSONAL & ADV INJURY   | s              | 2,000,000               |
|  | GEN'L AGGREGATE LIMIT APPLIES PER:   |             |              |  |                    |                      |   | GENERAL AGGREGATE   | \$             | 4,000,000               |
|  | POLICY X PRO-<br>JECT X LOC  |             |              |  |                    |                      |   | PRODUCTS - COMP/OP AGG  | \$<br>\$       | 4,000,000               |
|  | AUTOMOBILE LIABILITY   |             |              |  |                    |                      | COMBINED SINGLE LIMIT<br>(Ea accident)  | \$  | 2,000,000      |                         |
|  | X ANY AUTO   |             |              |  |                    |                      |   | BODILY INJURY (Per person)  | \$             |                         |
| A                                      | OWNED AUTOS ONLY AUTOS<br>HIRED NON-OWNED  | Y           | Y            | AS2-641-444950-041                               | 1 0                | 06/01/2021           | 06/01/2022                              | BODILY INJURY (Per accident)<br>PROPERTY DAMAGE<br>(Per accident) | \$<br>\$       |                         |
|  | AUTOS ONLY<br>Comp/Coll X  |             |              |  |                    |                      |   |   | \$             |                         |
| в                                      | UMBRELLA LIAB X OCCUR  |             |              |  | 06/01/2021         |                      | 06/01/000                               | EACH OCCURRENCE   | \$             | 10,000,000              |
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|  | DED X RETENTION \$ 0   |             |              |  |                    |                      |   | X PER OTH-<br>STATUTE ER  | \$             |                         |
| с                                      | AND EMPLOYERS' LIABILITY<br>ANYPROPRIETOR/PARTNER/EXECUTIVE  |             |              |  |                    |                      |   | STATUTE     ER     EL. EACH ACCIDENT                              | \$             | 1,000,000               |
| ۲<br>۱                                 | OFFICER/MEMBEREXCLUDED?  | N/A         | Y            | WA7-64D-444950-01                                | .1 0               | 6/01/2021            | 06/01/2022                              | E.L. DISEASE - EA EMPLOYEE  |                | 1,000,000               |
|  | If yes, describe under<br>DESCRIPTION OF OPERATIONS below  |             |              |  |                    |                      |   | E.L. DISEASE - POLICY LIMIT                                       |                | 1,000,000               |
|  |  |             |              |  |                    |                      |   |   |                |                         |
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THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

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AUTHORIZED REPRESENTATIVE

alicia J. Pavelko



J. PUBLIC WORK REQUIREMENT

# **J. PUBLIC WORK REQUIREMENT**

(https://ir.ca.gov/) State of California Department of Industrial Relations

| Contractor Information  |                          |  | Registration H | listory                          |  |  |  |
|---|--------------------------|--|----------------|----------------------------------|--|--|--|
| Legal Entity Name   |                          |  | Effective Date | Expiration Date                  |  |  |  |
| HDR ENGINEERING, INC.   |                          |  | 06/14/18       | 06/30/19                         |  |  |  |
| Legal Entity Type   |                          |  |                |                                  |  |  |  |
| Corporation<br>Status   |                          |  | 06/19/17       | 06/30/18                         |  |  |  |
| Active  |                          |  | 06/30/16       | 06/30/17                         |  |  |  |
| Registration Number<br>1000018262   |                          |  | 07/07/15       | 06/30/16                         |  |  |  |
| Registration effective date 07/01/21  |                          |  | 04/06/15       | 06/30/15                         |  |  |  |
| Registration expiration date  |                          |  | 07/01/19       | 06/30/20<br>06/30/21<br>06/30/22 |  |  |  |
| 06/30/22<br>Mailing Address   |                          |  | 07/01/20       |                                  |  |  |  |
| 3230 EL CAMINO REAL, SUITE 200 IRVINE 92602 CA United States                  | of America               |  | 07/01/21       |                                  |  |  |  |
| Physical Address  |                          |  |                |                                  |  |  |  |
| 3230 EL CAMINO REAL, SUITE 200 IRVINE 92602 CA United States<br>Email Address | of America               |  |                |                                  |  |  |  |
| jennifer.freidin@hdrinc.com   |                          |  |                |                                  |  |  |  |
| Trade Name/DBA  |                          |  |                |                                  |  |  |  |
| License Number (s)<br>Other:1279161   |                          |  |                |                                  |  |  |  |
| Legal Entity Information  |                          |  |                |                                  |  |  |  |
| Corporation Entity Number:  | C0168406                 |  |                |                                  |  |  |  |
| Federal Employment Identification Number:                                     | 470680568                |  |                |                                  |  |  |  |
| President Name:<br>Vice President Name:                                       | CHARLES OREILLY          |  |                |                                  |  |  |  |
| Treasurer Name:   |                          |  |                |                                  |  |  |  |
| Secretary Name:   |                          |  |                |                                  |  |  |  |
| CEO Name:   | ERIC KEEN                |  |                |                                  |  |  |  |
| Agency for Service:   |                          |  |                |                                  |  |  |  |
| Agent of Service Name:  | C T CORPORATION SYSTE    | M                                      |                |                                  |  |  |  |
| Agent of Service Mailing Address:   | 1917 S. 67TH STREET ON   | /AHA 68106 NE United States of America |                |                                  |  |  |  |
|   |                          |  |                |                                  |  |  |  |
| Worker's Compensation   |                          |  |                |                                  |  |  |  |
| Do you lease employees through Professional Employ                            | ver Organization (PEO)?: | No                                     |                |                                  |  |  |  |
| Please provide your current worker's compensation in                          | -                        |  |                |                                  |  |  |  |
| PEO PEO PEO   |                          |  |                |                                  |  |  |  |
| PEO InformationName Phone Email   |                          |  |                |                                  |  |  |  |
| Insured by Carrier  |                          |  |                |                                  |  |  |  |
| Policy Holder Name:   |                          | HDR ENGINEERING, INC.                  |                |                                  |  |  |  |
| Insurance Carrier:  |                          | LIBERTY INSURANCE CORPORATION          |                |                                  |  |  |  |
|   |                          |  |                |                                  |  |  |  |
| Policy Number:<br>Inception date:   |                          | WA7-64D-444950-011<br>06/01/21         |                |                                  |  |  |  |

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