

# Rubidoux Community Services District

## Board of Directors

Hank Trueba Jr., President  
Diana Leja, Vice-President  
Bernard Murphy  
John Skerbelis  
Leslie Altamirano

## General Manager

Brian R. Laddusaw



Water Resource Management    Refuse Collection    Street Lights    Fire / Emergency Services    Weed Abatement

## NOTICE AND AGENDA FOR THE RUBIDOUX COMMUNITY SERVICES DISTRICT BOARD MEETING

**Thursday, January 16, 2025, at 4:00 PM**

During this regular meeting of the Rubidoux Community Services District Board of Directors, members of the public will have the choice to attend and address the Board in person or attend and address the Board via Zoom.

Members of the public wanting to attend and/or address the Board virtually may do so by using the Zoom App or website for free at: <https://zoom.us/>

- Meeting ID is **994 957 9980**
- Passcode is: rcsd
- Call into the meeting number 1-669-444-9171

Only one person at a time may speak by telephone or Zoom and only after being recognized by the President of the Board.

**Closed Session:** At any time during the regular session, the Board may adjourn to a closed executive session to consider matter of litigation, personnel, negotiations, or to deliberate on decisions as allowed and pursuant with the open meetings laws. Discussion of litigation is within the Attorney/Client privilege and may be held in closed session.

Authority: Government code 11126-(a) (d) (q).

### ADDITIONS TO THE AGENDA

*In accordance with Section 54954.2 of the Government Code (Brown Act), additions to the agenda require a two-thirds vote of the entire Board, or, if fewer than two-thirds of the members are present, a unanimous vote of those members present, making findings that there is a need to take immediate action and that the need for action came to the attention of the District subsequent to the posting of the agenda.*

1. **CALL TO ORDER** – Hank Trueba Jr., President
2. **PLEDGE OF ALLEGIANCE** – General Manager
3. **ROLL CALL** – General Manager
4. **PUBLIC COMMENTS**

Members of the public are encouraged to address the Board of Directors. Anyone who wishes to speak on an item not on the published agenda must submit a comment request card to the General Manager or designee. Each speaker should begin by identifying themselves for the record and is allowed up to five minutes.

No one may give their time to a speaker during the public comment period of the meeting. It is requested that all present refrain from any action that might disrupt the orderly course of the meeting. Coarse, crude, profane, or vulgar language, or unsolicited comments from the audience, which disrupts or disturbs the Board meeting, may result in exclusion from the meeting.

The Ralph M. Brown Act, Government Code 54950, et. seq. prohibits members of the Board of Directors from taking formal action or discuss items not on the published agenda. As a result, immediate response to public comment may be limited.

5. **CONSENT CALENDAR**

Consent Calendar items are expected to be routine and non-controversial and are to be acted upon by the Board by one motion, without discussion. If any Board member, staff member, or interested person requests that an item be removed from the Consent Calendar for further discussion, it will be moved to the first item on the Action Agenda.

- A. Approval of Minutes for December 19, 2024, Regular Meeting
- B. Consideration to:
  - A) Ratify the January 2, 2025, Salaries, Expenses and Transfers
  - B) Approve the January 17, 2025, Salaries, Expenses and Transfers
- C. **DM 2025-01:** Receive and File Statement of Cash Asset Schedule Report Ending November 2024
- D. **DM 2025-02:** Consideration to Approve a Master Service Agreement for SCADA System Services with Stellar Technology



- E. **DM 2025-03:** Consider Acceptance of Work and Filing Notice of Completion for the Backwash Supply Pipeline Project at Leland Thompson Water Treatment Facility

**6. CORRESPONDENCE AND RELATED INFORMATION**

**7. REPORTS**

- A. Operations Report (Second Meeting Each Month)
- B. Emergency and Incident Report (Second Meeting Each Month)
- C. General Manager and Staff Reports / Updates
- D. Committee Reports

**8. ACTION / DISCUSSION ITEMS**

- A. **DM 2025-04:** Consider Proposal for Internal Piping Upgrades from Filtronics, Inc. for Leland Thompson Water Treatment Facility Manganese Vessels #1 and #2

**9. DIRECTORS COMMENTS AND REQUESTS**

**10. NEXT MEETING**

Thursday, February 6, 2025, at 4:00 p.m.

**11. ADJOURNMENT**

*Any person with a disability who requires a modification or accommodation in order to participate in this meeting, or any person with limited English proficiency (LEP) who requires language assistance to communicate with the Rubidoux Community Services District Board of Directors during the meeting, should contact the Rubidoux Community Services District Administrative Department, at (951) 684-7580 or [admin@rcsd.org](mailto:admin@rcsd.org), no fewer than two (2) business days prior to this meeting to enable the Rubidoux Community Services District to make reasonable arrangements to assure accessibility or language assistance for this meeting.*

**DECLARATION OF POSTING**

I, Brian Laddusaw, General Manager and Board Secretary to the Rubidoux Community Services District, certify that a copy of this has been posted in the District's main office, 3590

Rubidoux Blvd., Jurupa Valley, and on its website no less than seventy-two (72) hours before the start of the meeting.



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Brian Laddusaw  
General Manager-Secretary

4. **PUBLIC COMMENTS**

5. **CONSENT CALENDAR**

A. Approval of Minutes for December 19, 2024, Regular Meeting



**RUBIDOUX COMMUNITY SERVICES DISTRICT  
BOARD OF DIRECTORS**

**MINUTES OF REGULAR MEETING  
Thursday, December 19, 2024**

**DIRECTORS PRESENT:** Bernard Murphy  
John Skerbelis  
Hank Trueba, Jr.  
Diana Leja

**STAFF PRESENT:** Brian Laddusaw, General Manager  
Brandon Thomas, Assistant General Manager  
Kirk Hamblin, Director of Finance and Administration  
Miguel Valdez, Director of Engineering  
Martha Perez, Customer Service/Accounts Payable  
Manager  
Melissa Trujillo, HR Generalist/Safety and Facilities  
Coordinator

**VISITORS (SIGNED IN):** Ross Leja, RCSD Resident  
Leslie Altamirano, RCSD Resident  
Hugo Bustamante, RCSD Resident  
Anthony Kelly Jr., RCSD Resident  
Chief Otterman, Fire Station 38

**ITEM 1. CALL TO ORDER**

The meeting of the Board of Directors of the Rubidoux Community Services District by President Trueba, at 4:00 PM Thursday, December 19, 2024, in-person and by teleconferencing at the District's Administrative Office, 3590 Rubidoux Boulevard, Jurupa Valley, California.

**ITEM 2. PLEDGE OF ALLEGIANCE – General Manager**

**ITEM 3. ROLL CALL – General Manager**

**ITEM 4. PUBLIC COMMENTS**

No public comments.

**ITEM 5. DM 2024-100:** Consideration to Review Board Candidates Applications Submitted and Make Appointment to Fill Board Vacancy

**BACKGROUND:**

At the November 7, 2024, regular meeting of the Rubidoux Community Services District ("District") Board of Directors ("Board"), staff presented a "Letter of Resignation" ("Letter") submitted by F. Forest Trowbridge, dated November 3, 2024. The Letter was provided to the remaining Board members in advance of the meeting via Memorandum on November 4, 2024. During that meeting, the Board formally accepted Mr. Trowbridge's resignation and decided to fill his unexpired term, which concludes in December 2026, by appointment.

In accordance with the Board's decision and the requirements of Government Code Section 1780 (Attachment 1), a "Notice of Vacancy" (Attachment 2) was prepared and posted in three public locations within the District's service area for a minimum of fifteen (15) days.

The "Notice of Vacancy" was posted during the week of November 11, 2024, at the following locations:

- Rubidoux Community Services District Administration Building (3590 Rubidoux Blvd.)
- Louis Robidoux Library (5840 Mission Blvd.)
- Veterans Memorial Park (5981 Limonite Ave.)

Additionally, while not required, the "Notice of Vacancy" was published in the *Press Enterprise* on November 16, 2024, to further publicize the vacancy.

As indicated in the notice, the deadline for submitting "Letters of Interest" was December 12, 2024. As of this date, staff has received three "Letters of Interest" for the Board's consideration. The candidates are as follows:

Leslie Altamirano (Attachment 4)  
Hugo Bustamante (Attachment 5)  
Anthony Kelly, Jr. (Attachment 6)

In preparation for today's meeting, staff contacted all interested candidates to attend. This agenda item is open to the public and designed for Board review and action. Board members are encouraged to thoroughly review all applicants "Letters of Interest" and resume. At the Board's discretion, questions may be directed to the candidates. Following the review, the Board may proceed to vote on an appointment, in line with its earlier decision to fill the vacancy by appointment.

The Board Policies and Procedures Manual ("Manual") does not outline standard procedures for filling a Board vacancy. Section 14 states that appointing an individual to fill a vacancy requires a vote of three (3) Directors in favor, and if two of the four Directors present abstain, the appointment is not approved. (Attachment 3)

Regarding public input on this agenda item, the District will follow Section 13 of the Manual, which allows individuals or groups to address the Board, with a five-minute limit per speaker, prohibits boisterous conduct, and disallows oral presentations involving complaints against specific employees. (Attachment 3)

Staff recommends the Board adopt the following guidelines to ensure a fair and equitable process for soliciting input from interested candidates and members of the public in filling the Board vacancy:

## PROPOSED GUIDELINES FOR APPOINTMENT

- INTERESTED CANDIDATES (in alphabetical order) – Facilitator: President Trueba
  - Leslie Altamirano – 5 Minutes (optional)
  - Hugo Bustamante – 5 Minutes (optional)
  - Anthony Kelly, Jr – 5 Minutes (optional)
- PUBLIC – Facilitator: President Trueba
  - 5 minutes per speaker (speaker card suggested)
- BOARD INTERACTION – Facilitator: President Trueba
  - Q&A with interested candidates
- BOARD DELIBERATION – Facilitator: President Trueba
  - Discussion and decision-making by the Board
- VOTE – Facilitator: General Manager
  - Ballot vote, conducted by the General Manager
  - Director will circle one candidate per round
  - Multiple rounds of voting until three or more votes are cast for a single candidate
- OATH OF OFFICE – Facilitator: General Manager
  - Administer the Oath of Office to the appointed Director

### Budget Considerations

This action represents a policy decision by the Board and does not have any budgetary impact beyond staff time required for associated administrative tasks.

### ACTION:

**Ms. Leslie Altamirano was successfully appointed to the RCSD Board of Directors. The Board of Directors authorized the General Manager to complete and file the necessary Registrar of Voters, County of Riverside paperwork.**

### **ITEM 6. CONSENT CALENDAR**

- A. Approval of Minutes for December 5, 2024, Regular Meeting
- B. Consideration to Approve December 20, 2024, Salaries, Expenses and Transfers
- C. **DM 2024-101:** Consider Easement Quitclaim Deed for Agua Mansa Commerce Park (APNs 175-200-008 and 175-200-009)

**ACTION:**

**Director Murphy moved, and Director Skerbelis seconded to approve the Consent Calendar.**

**Roll call:**

**Ayes – 5 (Murphy, Trueba, Skerbelis, Leja, Altamirano)**

**Noes – 0**

**Abstain – 0**

**Absent – 0**

**The motion was carried 5-0-0-0.**

**ITEM 7. CORRESPONDENCE AND RELATED INFORMATION**

General Manager Brian Laddusaw included three articles from the *Press Enterprise*. The first article, titled "2024 Elections," summarizes the City Council vote recount that occurred in Jurupa Valley. It also discusses the recounts that took place in the Banning City Council and the Beaumont Unified School District.

The next article, titled "Communities Begin to Turn Against Fluoride in Water," describes how, for about 50 years, adding cavity-preventive fluoride to drinking water was a popular public health measure in Yorktown, a leafy town north of New York City. However, in September, the town's supervisor used emergency powers to stop the practice.

The last article, titled "10.8B Battle Arises Over Cleaner Water," examines the effort to clear pollution from the Santa Ana River, which has pitted Inland communities against coastal areas.

**ITEM 8. REPORTS**

**A. Operations Report (Second Meeting Each Month)**

The Operations Report format was updated to include the Potable Water Production report. In November, potable water production totaled 378 acre-feet. During May, June, July, and August, the acre-feet values were below the five-year average.

Well No. 18 and Well No. 8A produced the majority of the water. Chemical deliveries for the reporting period included the following:

- **Sodium Bisulfite 25%:** 1,536 gallons delivered to the Thompson Plant.
- **Morton NSF Certified White Crystal Salt:** 25.48 tons delivered to the Smith Plant.
- **Sodium Hypochlorite 12.5% (Liquid Chloride):** 1,850 gallons delivered to the Thompson Plant, Smith Plant, and Well 8.

The Operations Report also included information on SCE Public Safety Power Shutoffs and their impact on affected sites. A majority of the lift stations were impacted.



**B. Emergency and Incident Report (Second Meeting Each Month)**

Riverside County Fire Station 38 Chief Otterman presented the incidents reported for the month of November 2024. The station had a total of 257 calls. It received 36 false alarm calls, 1 hazmat, 157 medical calls, 9 other fire calls, 2 other miscellaneous, 13 public service assistant calls, 2 rescue fires, 1 rescue, 4 ringing alarms, 11 standbys, 19 traffic collisions, 1 vehicle fire, and 1 wildland fires.

**C. General Manager and Staff Reports / Updates**

General Manager Brian Laddusaw informed the Board that the Western Water Retail meeting is scheduled for January 28th, from 11:30 a.m. to 2:00 p.m. The employees' annual potluck took place earlier in the day. AGM Brandon Thomas introduced the District's new Engineering Technician/IT Business Systems/GIS Analyst, Anthony Strey.

**D. Committee Reports**

None.

**ITEM 9. ACTION/DISCUSSION ITEMS.**

**A. DM 2024-102: Consideration to Approve Amendment No. 2 to Employment Agreement and Amend Salary Schedule for Fiscal Year 2024|2025**

**BACKGROUND:**

On October 6, 2022, the Rubidoux Community Services District ("District") Board of Directors ("Board") entered into an Employment Agreement ("Agreement") with Brian Laddusaw ("Employee") to serve as the District's General Manager. The Agreement became effective December 30, 2022, for a term of three (3) years, ending December 30, 2025, unless terminated or extended as specified in the Agreement. A copy of the Agreement is included as Attachment 1 to this Director's Memorandum.

Pursuant to Section 6 of the Agreement, titled "Performance Evaluation", the Board is required to conduct a written performance review of the Employee annually at the second Board meeting in December, which aligns with the Employee's anniversary month. For 2024, the second December Board meeting falls on December 19. However, due to the anticipated transition of multiple Board members during December 2024, the Board conducted the Employee's annual evaluation earlier, during its regular meeting on December 5, 2024, under Closed Session (DM 2024-94).

**Evaluation Outcome**

Following the evaluation, the Board approved a 3.00% increase to the Employee's base salary. No other terms or conditions were modified.

Included as Attachment 2 is the Second Amendment to Employment Agreement (“Second Amendment”), which formally reflects this salary adjustment. All other provisions of the original Agreement and the First Amendment remain in full force and effect.

### **Summary of Changes**

#### Section 4: Compensation

- Base Salary: The Employee’s base salary shall be adjusted to \$260,041.60, representing a 3.00% increase from the previously adopted Fiscal Year 2024-2025 (“FY 24|25”) District Salary Schedule approved on June 20, 2024 and first amended on December 5, 2024.
- The adjustment will be effective December 30, 2024, consistent with the Employee’s anniversary date.

If the Board approves the Second Amendment, the District’s FY 24|25 Salary Schedule will require an update to reflect this change. A revised version of the FY 24|25 Salary Schedule is included as Attachment 3. No other salaries have been adjusted in the proposed amended Salary Schedule.

### **Compliance and Action Items**

Per the advice of the District’s General Counsel and in compliance with the Brown Act, adjustments to the General Manager’s compensation must occur in open session.

The following items will be considered as separate actions:

1. Approval of the Second Amendment to the Employment Agreement.
2. Approval of the updated FY 24|25 Salary Schedule.

### **ACTION:**

**Director Murphy moved, and Director Trueba seconded, to approve the Second Amendment to Employment Agreement between Rubidoux Community Services District and Brian Laddusaw.**

#### **Roll call:**

**Ayes – 5 (Murphy, Trueba, Skerbelis, Leja, Altamirano)**

**Noes – 0**

**Abstain – 0**

**Absent – 0**

**The motion was carried 5-0-0-0.**

**Director Murphy moved, and Director Trueba seconded, to approve and adopt the amended Rubidoux Community Services District Fiscal Year 2024|2025 Salary Schedule (2<sup>nd</sup> Amended) effective December 30, 2024.**

#### **Roll call:**

**Ayes – 5 (Murphy, Trueba, Skerbelis, Leja, Altamirano)**

**Noes – 0**

**Abstain – 0**

**Absent – 0**

**The motion was carried 5-0-0-0.**

B. **DM 2024-103:** Consideration and Authorization to Adjust Employees Holiday Work Schedule

**BACKGROUND:**

The Rubidoux Community Services District (“District”) provides its employees with paid holidays as outlined in the District’s Memorandum of Understanding (“MOU”) with its bargaining unit employees and the District’s Employee Handbook (“Handbook”), which governs all employees. The MOU and Handbook specify that when December 24th falls on a Monday, the District observes it as a paid holiday. This year, December 24th falls on a Tuesday, and this provision does not apply. The District will remain open for regular business operations on December 24th, with the District observing Wednesday, December 25th, as a paid holiday for Christmas. In 2022 and 2023, December 24th fell on a weekend, minimizing the impact of this policy. However, this year’s alignment presents an opportunity to recognize staff contributions with a meaningful gesture.

Staff proposes closing District operations at 12:00 p.m. on Tuesday, December 24th, granting all employees a paid half-day off. This would provide employees with additional time to prepare for and enjoy the holiday while acknowledging their dedication and hard work throughout the year. Essential services, including water and wastewater operations, will continue without interruption through on-call staffing to ensure public health and safety. All other employees and those not on-call will adjust their schedules to accommodate the early closure, ensuring a seamless transition for District operations.

The financial impact of this proposal is minimal, as it involves paid time during a regularly scheduled workday. Any overtime expenses for on-call staff will be managed within the District’s existing budget allocations. This proposal aligns with holiday practices observed by many public agencies and demonstrates the District’s commitment to employee appreciation and well-being.

Approving this closure at 12:00 p.m. on Christmas Eve would reinforce the Board’s support for its employees, promote morale, and foster a positive workplace culture.

**ACTION:**

**Director Skerbelis moved, and Director Altamirano seconded, to approve the closure of District operations at 12:00 p.m. on Tuesday, December 24th, 2024, and grant a paid half-day off to all District employees.**

**Roll call:**

**Ayes – 4 (Trueba, Skerbelis, Leja, Altamirano)**

**Noes – 1 (Murphy)**

**Abstain – 0**

**Absent – 0**

**The motion was carried 4-1-0-0.**

**C. DM: 2024-104 Consideration to Cancel the January 2, 2025, Regular Board Meeting of the Rubidoux Community Services District**

**BACKGROUND:**

Historically, the Rubidoux Community Services District (“District”) Board of Directors (“Board”) has cancelled the first Board meeting of the year due to conflicts with the seasonal holiday schedule. In previous years, Board members' holiday plans often made it challenging to achieve a quorum for conducting District business. Additionally, District staff frequently schedule holiday or vacation time to spend with family or travel, which complicates Board agenda preparation. Business activity generally slows down during this period for the same reasons. A similar approach has been applied to the first Board meeting in July.

This practice of cancelling the first Board meetings of January and July was in place for over 25 years before it was formalized through Resolution No. 2018-840 on May 17, 2018. However, on August 5, 2021, the Board rescinded this practice by adopting Resolution No. 2021-880, which repealed Resolution No. 2018-840. Resolution No. 2021-880 states, “Regular Board Meetings on the first Thursday of the months of January and July will be scheduled and conducted unless the actual date of the meeting conflicts with actual date of a District recognized Holiday...” This provision was applied earlier this year when the first Board meeting in July coincided with July 4th, a District-recognized holiday.

The first Board meeting of 2025 is scheduled for Thursday, January 2, 2025. While January 2nd is not a District-recognized holiday, the Board may have vacation or travel plans, which could make it difficult to achieve a quorum.

**ACTION:**

**Director Altamirano moved, and Director Skerbelis seconded, to approve the cancellation of the January 2, 2025, regular Board meeting. The next regularly scheduled Board meeting would be on January 16, 2025.**

**Roll call:**

**Ayes – 4 (Trueba, Skerbelis, Leja, Altamirano)**

**Noes – 1 (Murphy)**

**Abstain – 0**

**Absent – 0**

**The motion was carried 4-1-0-0.**



**RECESS @ 5:01PM-5:08PM**

**DM 2024-105 – CLOSED SESSION:** Pursuant to Government Code Section 54956.9:  
Legal Counsel Status on Litigation Case No. CIVDS 1310520, City of Riverside vs. Rubidoux  
Community Services District

**Closed Session Start @ 5:08 PM- End @ 5:26 PM**

**No reportable action items from Closed Session.**

**ITEM 10. DIRECTOR’S COMMENTS AND REQUESTS**

Director Leja welcomed Director Altamirano to the Board of Directors. No other Directors had comments and/or requests.

**ITEM 11. NEXT MEETING**

Thursday, January 16, 2025, at 4:00 p.m.

**ITEM 12. ADJOURNMENT**

President Skerbelis adjourned the meeting at 5:27 P.M.

5. **CONSENT CALENDAR** (continued)

B. Consideration to:

- A) Ratify the January 2, 2025, Salaries, Expenses, and Transfers
- B) Approve the January 17, 2025, Salaries, Expenses and Transfers

RUBIDOUX COMMUNITY SERVICES DISTRICT  
 JANUARY 2, 2025 (BOARD MEETING)  
**FUND TRANSFER AUTHORIZATION**

<b>NET PAYROLL 1/3/25</b>	93,500.00
ACH TRANSFER: FEDERAL PAYROLL TAXES 1/6/25	35,000.00
ACH TRANSFER: STATE PAYROLL TAXES 1/6/25	8,000.00
ACH TRANSFER: TO CREDIT UNION	6,500.00
ACH TRANSFER: PERS RETIREMENT	27,000.00
ACH TRANSFER: PERS HEALTH PREMIUMS	52,763.51
ACH TRANSFER: PERS RETIRED HEALTH PREMIUMS AND FEES	5,894.31
ACH TRANSFER: VSP VISION	1,142.46
ACH TRANSFER: SDRMA	3,179.92
ACH TRANSFER: THE STANDARD	3,494.55
ACH TRANSFER: SECTION 125	215.38
ACH TRANSFER: SECTION 457 AND 401(A)	2,350.00

**CHECKING ACCOUNT TRANSFERS FOR ACCOUNTS PAYABLE:**

1/3/2025 WATER FUND TO GENERAL FUND-Payables	209,517.36
WATER FUND TO GENERAL FUND-Trash	231,736.05
WATER FUND TO SEWER FUND	161,444.78
SEWER FUND TO GENERAL FUND-Payables	42,403.53

**INTERFUND TRANSFERS:**

1/3/2025 SEWER FUND CHECKING TO LAIF SEWER OP	119,000.00
LAIF SEWER ML TO LAIF SEWER OP	4,339.50
GENERAL FUND CHECKING TO US BANK (TVI)	2,643.42
LAIF PROPERTY TAX TO GENERAL FUND CHECKING	255,000.00
WATER FUND CHECKING TO LAIF WATER OP	477,000.00
LAIF WATER ML TO LAIF WATER OPS	25,986.50

**NOTES PAYABLE**

<u>DESCRIPTION</u>	<u>BALANCE</u>	<u>PAYMENT</u>	<u>DUE DATE</u>
MN Plant-State Revolving Loan	2,909,628 Prin.	144,699	Jul-25
MN Plant-State Revolving Loan	368,135 Intr.	37,399	Jul-25
2022 Obligations	2,940,803 Prin.	330,126	Jul-25
2022 Obligations	372,912 Intr.	44,847	Jul-25

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Tr. #	Vendor	Inv Date	Paid Out	Immediate	Credit Card Vendor	Due Date	Discount Date	Invoice #
PO Number		Inv Date	Paid Out	Immediate	Check #	Due Date	Discount Date	Discount
GL Date	Immediate GL Account	Inv Date	Paid Out	Immediate	Credit Card	Due Date	Discount Date	Total Invoice
1	720 CARPET CLEANING / 720 CARPET CLEANING							5073
JAN.25'CLNG SVC		12/13/2024	N	N		01/12/2025	12/13/2024	\$0.00
01/02/2025					N			\$1,150.00
2	720 CARPET CLEANING / 720 CARPET CLEANING							5074
5473 MISSION CLNG SV		12/13/2024	N	N		01/12/2025	12/13/2024	\$0.00
01/02/2025					N			\$280.00
4	AIRGAS / AIRGAS USA, LLC							9156616541
TANK RNTL		12/17/2024	N	N		12/16/2025	12/17/2024	\$0.00
01/02/2025					N			\$174.34
5	AKELA / AKELA PEST CONTROL INC							186411
5473 PEST CONTROL		12/17/2024	N	N		12/16/2025	12/17/2024	\$0.00
01/02/2025					N			\$199.00
6	AKELA / AKELA PEST CONTROL INC							186489
PEST CONTROL		12/18/2024	N	N		01/17/2025	12/18/2024	\$0.00
01/02/2025					N			\$174.00
7	AQUA METRIC SALES / AQUA METRIC SALES CO							INV0105506
3/4" MTR		12/11/2024	N	N		01/10/2025	12/11/2024	\$0.00
01/02/2025					N			\$10,895.85
8	BACKFLOW PARTS USA / BACKFLOW PARTS USA							195974
PARTS		10/25/2024	N	N		11/25/2024	10/25/2024	\$0.00
01/02/2025					N			\$53.92
9	BENS / BEN'S LOCK & SAFE INC.							4033
R&M OFC		12/12/2024	N	N		01/12/2025	12/12/2024	\$0.00
01/02/2025					N			\$491.31
10	BPS B'S POOL SUPPLIES / B.P.S. B's POOL SUPPLIES							129532
SODIUM HYPO		12/13/2024	N	N		01/13/2025	12/13/2024	\$0.00
01/02/2025					N			\$800.15
11	CORODATA SHREDDING, INC / CORODATA SHREDDII							1500806
SHREDDING		11/30/2024	N	N		12/29/2024	11/30/2024	\$0.00
01/02/2025					N			\$39.70
12	C WELLS / C. WELLS PIPELINE MATLS, INC							SINV24-4358
PARTS		12/11/2024	N	N		12/10/2024	12/11/2024	\$0.00
01/02/2025					N			\$8,760.75
13	DEAN'S ELECTRIC / DEAN'S ELECTRIC							1765
5473 MISSION BLVD		10/31/2024	N	N		11/30/2024	10/31/2024	\$0.00
01/02/2025					N			\$1,536.00
14	GRAINGER / GRAINGER							9341678085
PARTS		12/10/2024	N	N		01/09/2025	12/10/2024	\$0.00
01/02/2025					N			\$38.79
15	HACH CO. / HACH COMPANY							14289323
CHEMICALS		12/10/2024	N	N		01/09/2025	12/10/2024	\$0.00
01/02/2025					N			\$327.56
16	HARRINGTON INDUSTRIAL / HARRINGTON INDUSTRI							012N4687
PARTS		12/10/2024	N	N		01/09/2025	12/10/2024	\$0.00
01/02/2025					N			\$1,767.90
17	HARRINGTON INDUSTRIAL / HARRINGTON INDUSTRI							012N4709
PVC		12/11/2024	N	N		01/10/2025	12/11/2024	\$0.00
01/02/2025					N			\$344.14

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Tr. #	Vendor	Inv Date	Paid Out	Immediate	Credit Card Vendor	Due Date	Discount Date	Invoice #
PO Number					Check #			Discount
GL Date	Immediate GL Account				Credit Card	CC Reference #	Payment Date	Total Invoice
18	HOME DEPOT / HOME DEPOT CREDIT SERVICES							013590/9510492
SUPPLIES	12/13/2024	N	N			01/12/2025	12/13/2024	\$0.00
01/02/2025					N			\$220.69
19	HOME DEPOT / HOME DEPOT CREDIT SERVICES							012495/0024155
SUPPLIES	12/12/2024	N	N			01/11/2025	12/12/2024	\$0.00
01/02/2025					N			\$369.74
20	HOME DEPOT / HOME DEPOT CREDIT SERVICES							017676/5024654
6131LIMONITE SUPPLIE	12/17/2024	N	N			01/16/2025	12/17/2024	\$0.00
01/02/2025					N			\$953.61
21	LILLESTRAND / LILLESTRAND LEADERSHIP CONSUL							8091
CNSLT/THOMAS	12/15/2024	N	N			01/14/2025	12/15/2024	\$0.00
01/02/2025					N			\$768.75
22	LILLESTRAND / LILLESTRAND LEADERSHIP CONSUL							8092
CNSLT/VALDEZ	12/15/2024	N	N			01/14/2025	12/15/2024	\$0.00
01/02/2025					N			\$512.50
23	LOUIES / LOUIE'S BRAKES & ALIGNMENT							2267
SMOG CERT 2014 F250	12/10/2024	N	N			01/09/2025	12/10/2024	\$0.00
01/02/2025					N			\$60.00
24	MASTER'S / MASTER'S SERVICES (GLACIER)							0000001157374
BTL WTR	12/17/2024	N	N			01/16/2025	12/17/2024	\$0.00
01/02/2025					N			\$97.00
25	MASTER'S / MASTER'S SERVICES (GLACIER)							0000001157378
BTL WTR	12/17/2024	N	N			01/16/2025	12/17/2024	\$0.00
01/02/2025					N			\$35.00
26	MCMASTER-CARR / McMASTER-CARR SUPPLY CO							37757905
PARTS	12/11/2024	N	N			01/10/2025	12/11/2024	\$0.00
01/02/2025					N			\$40.60
27	MERIT OIL / MERIT OIL COMPANY							876819
GASOLINE	12/04/2024	N	N			01/03/2025	12/04/2024	\$0.00
01/02/2025					N			\$1,035.88
28	MERIT OIL / MERIT OIL COMPANY							878037
DIESEL	12/10/2024	N	N			01/09/2025	12/10/2024	\$0.00
01/02/2025					N			\$411.45
29	MERIT OIL / MERIT OIL COMPANY							878104
DIESEL	12/10/2024	N	N			01/09/2025	12/10/2024	\$0.00
01/02/2025					N			\$480.02
30	MERIT OIL / MERIT OIL COMPANY							878263
GASOLINE	12/11/2024	N	N			01/10/2025	12/11/2024	\$0.00
01/02/2025					N			\$262.97
31	MERIT OIL / MERIT OIL COMPANY							877947
GASOLINE	12/11/2024	N	N			01/10/2025	12/11/2024	\$0.00
01/02/2025					N			\$1,379.92
32	MINUTEMAN PRESS / MINUTEMAN PRESS							34276
VALDEZ BUSINESS CARD	12/11/2024	N	N			12/11/2024	12/11/2024	\$0.00
01/02/2025					N			\$71.12
33	MV ENGINEERING SERVICES, INC / MV ENGINEERIN							2024-56
DEV.SERVICE	12/11/2024	N	N			01/10/2025	12/11/2024	\$0.00
01/02/2025					N			\$1,266.00

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34	MV ENGINEERING SERVICES, INC / MV ENGINEERING							2024-57
ADM.ASSISTANCE		12/11/2024	N	N		01/10/2025	12/11/2024	\$0.00
01/02/2025					N			\$432.00
35	NORTHSTAR CHEMICALS / NORTHSTAR CHEMICAL							299759
SODIUM SULFITE		12/12/2024	N	N		01/11/2025	12/12/2024	\$0.00
01/02/2025					N			\$4,942.33
36	REDWING / REDWING SHOES							314-1-58069
BOOTS FIKE		11/27/2024	N	N		12/27/2024	11/27/2024	\$0.00
01/02/2025					N			\$230.00
37	RIVCOMM / RIVCOMM, INC.							26942
R&M TRUCK		12/11/2024	N	N		01/10/2025	12/11/2024	\$0.00
01/02/2025					N			\$1,395.05
38	RIVCOMM / RIVCOMM, INC.							26949
R&M TRUCK		12/11/2024	N	N		01/10/2025	12/11/2024	\$0.00
01/02/2025					N			\$177.71
39	ROYAL INDUSTRIAL / ROYAL INDUSTRIAL SOLUTIONS							6441-1138533
RACKS		12/11/2024	N	N		01/10/2025	12/11/2024	\$0.00
01/02/2025					N			\$470.09
40	SCE / SCE							24D700158802582
WTR PMP ENRGY		12/16/2024	N	N		01/06/2025	12/16/2024	\$0.00
01/02/2025					N			\$14,553.95
41	SCE / SCE							24D700044576190
SWR PMP ENERGY		12/16/2024	N	N		01/06/2025	12/16/2024	\$0.00
01/02/2025					N			\$1,167.75
42	SCE / SCE							24D700767086653
5473 UTILITY		12/16/2024	N	N		01/06/2025	12/16/2024	\$0.00
01/02/2025					N			\$673.11
43	SCE / SCE							24D700609292713
WTR PMP ENERGY		12/16/2024	N	N		01/06/2025	12/16/2024	\$0.00
01/02/2025					N			\$328.74
44	SOCAL TRUCK / SOCAL TRUCKWORKS							14574
R&M TRUCK		12/16/2024	N	N		01/15/2025	12/16/2024	\$0.00
01/02/2025					N			\$830.17
45	SHRED-IT / SHRED-IT USA							8009129208
SHREDDING		11/30/2024	N	N		12/30/2024	11/30/2024	\$0.00
01/02/2025					N			\$78.52
46	THIEME / THIEME, JEFFREY							20241211
T1 CERT RNWL		12/11/2024	N	N		01/10/2025	12/11/2024	\$0.00
01/02/2025					N			\$153.33
47	UNITED RENTALS / UNITED RENTALS, INC							242291409-001
R&M EQUIP		12/13/2024	N	N		01/12/2025	12/13/2024	\$0.00
01/02/2025					N			\$478.16
48	UPS / UNITED PARCEL SERVICE							0000F908W2474
POSTAGE		12/23/2024	N	N		01/22/2025	12/23/2024	\$0.00
01/02/2025					N			\$2.97
49	UPS / UNITED PARCEL SERVICE							0000F908W2484
POSTAGE		11/30/2024	N	N		12/30/2024	11/30/2024	\$0.00
01/02/2025					N			\$26.17

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50	UPS / UNITED PARCEL SERVICE							0000D908W2494
POSTAGE		12/07/2024	N	N			01/06/2025 12/07/2024	\$0.00
01/02/2025					N			\$58.86
51	YAHUALICA'S TIRES & WHEELS / YAHUALICA'S TIRES							20241004
R&M TRUCK		10/04/2024	N	N		11/03/2024	10/04/2024	\$0.00
01/02/2025					N			\$10.00
52	YAHUALICA'S TIRES & WHEELS / YAHUALICA'S TIRES							13726
R&M TRUCK		10/04/2024	N	N		11/03/2024	10/04/2024	\$0.00
01/02/2025					N			\$25.00
53	YAHUALICA'S TIRES & WHEELS / YAHUALICA'S TIRES							13790
R&M TRUCK		10/10/2024	N	N		11/09/2024	10/10/2024	\$0.00
01/02/2025					N			\$1,252.00
54	YAHUALICA'S TIRES & WHEELS / YAHUALICA'S TIRES							13797
R&M TRUCK		10/10/2024	N	N		11/09/2024	10/10/2024	\$0.00
01/02/2025					N			\$380.00
55	YAHUALICA'S TIRES & WHEELS / YAHUALICA'S TIRES							14000
R&M TRUCK		10/31/2024	N	N		11/30/2024	10/31/2024	\$0.00
01/02/2025					N			\$15.00
56	YAHUALICA'S TIRES & WHEELS / YAHUALICA'S TIRES							14013
R&M TRUCK		11/01/2024	N	N		12/01/2024	11/01/2024	\$0.00
01/02/2025					N			\$300.00
57	YAHUALICA'S TIRES & WHEELS / YAHUALICA'S TIRES							14046
R&M TRUCK		11/05/2024	N	N		12/05/2024	11/05/2024	\$0.00
01/02/2025					N			\$10.00
58	YAHUALICA'S TIRES & WHEELS / YAHUALICA'S TIRES							14072
R&M TRUCK		11/08/2024	N	N		12/08/2024	11/08/2024	\$0.00
01/02/2025					N			\$15.00
59	YAHUALICA'S TIRES & WHEELS / YAHUALICA'S TIRES							14141
R&M TRUCK		11/15/2024	N	N		12/15/2024	11/15/2024	\$0.00
01/02/2025					N			\$10.00
60	AGUIRRE / AGUIRRE, JESUS							20241218
WTR WISE PRO EDU		12/18/2024	N	N		01/17/2025	12/18/2024	\$0.00
01/02/2025					N			\$250.00
61	AMERICAN SAFETY PRODUCTS / AMERICAN SAFETY							5406
NITRITE GLVS		12/19/2024	N	N		01/18/2025	12/19/2024	\$0.00
01/02/2025					N			\$1,400.33
62	BERNELL / BERNELL HYDRAULICS, INC.							0493434-IN
BAND CLAMP		12/18/2024	N	N		01/17/2025	12/18/2024	\$0.00
01/02/2025					N			\$88.27
63	BLX / BLX GROUP, LLC							41742-249-121924
ARBITRAGE RPT		12/19/2024	N	N		01/18/2025	12/19/2024	\$0.00
01/02/2025					N			\$1,500.00
64	CORE & MAIN / CORE & MAIN							V985924
SUPPLIES		12/11/2024	N	N		12/10/2025	12/11/2024	\$0.00
01/02/2025					N			\$5,179.91
65	GRAINGER / GRAINGER							9350798428
CREAMER FLD OFC		12/19/2024	N	N		01/18/2025	12/19/2024	\$0.00
01/02/2025					N			\$97.83

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66	HOME DEPOT / HOME DEPOT CREDIT SERVICES							019012/3040503
SUPPLIES		12/19/2024	N	N		01/18/2025	12/19/2024	\$0.00
01/02/2025					N			\$364.99
67	KRIEGER & STEWART / KRIEGER & STEWART, INC.							50478
WTR CNSLT		12/19/2024	N	N		01/18/2025	12/19/2024	\$0.00
01/02/2025					N			\$6,212.00
68	KRIEGER & STEWART / KRIEGER & STEWART, INC.							50479
WSTE WTR CNSLT		12/19/2024	N	N		01/18/2025	12/19/2024	\$0.00
01/02/2025					N			\$2,244.75
69	KRIEGER & STEWART / KRIEGER & STEWART, INC.							50480
PRETRTMNT		12/19/2024	N	N		12/19/2024	12/19/2024	\$0.00
01/02/2025					N			\$4,942.77
70	KRIEGER & STEWART / KRIEGER & STEWART, INC.							50481
RUB COMM PARK 37528		12/19/2024	N	N		01/18/2025	12/19/2024	\$0.00
01/02/2025					N			\$226.00
71	KRIEGER & STEWART / KRIEGER & STEWART, INC.							50482
AGUA COMM PK 37528		12/19/2024	N	N		12/18/2025	12/19/2024	\$0.00
01/02/2025					N			\$1,010.75
72	KRIEGER & STEWART / KRIEGER & STEWART, INC.							50483
TR 36649		12/19/2024	N	N		01/18/2025	12/19/2024	\$0.00
01/02/2025					N			\$193.25
73	KRIEGER & STEWART / KRIEGER & STEWART, INC.							50484
TR 37211		12/19/2024	N	N		01/18/2025	12/19/2024	\$0.00
01/02/2025					N			\$125.50
74	KRIEGER & STEWART / KRIEGER & STEWART, INC.							50495
AMI PROJECT		12/19/2024	N	N		01/18/2025	12/19/2024	\$0.00
01/02/2025					N			\$212.75
75	KRIEGER & STEWART / KRIEGER & STEWART, INC.							50485
J.V TRACK 38318		12/19/2024	N	N		01/18/2025	12/19/2024	\$0.00
01/02/2025					N			\$2,981.00
76	KRIEGER & STEWART / KRIEGER & STEWART, INC.							50486
RIVERVIEW IMPR		12/19/2024	N	N		01/18/2025	12/19/2024	\$0.00
01/02/2025					N			\$421.50
77	KRIEGER & STEWART / KRIEGER & STEWART, INC.							50487
MISSION VILLAGE		12/19/2024	N	N		01/18/2025	12/19/2024	\$0.00
01/02/2025					N			\$291.75
78	KRIEGER & STEWART / KRIEGER & STEWART, INC.							50488
RCSA TRACK 37857		12/19/2024	N	N		01/18/2025	12/19/2024	\$0.00
01/02/2025					N			\$923.00
79	KRIEGER & STEWART / KRIEGER & STEWART, INC.							50489
EMRLD RDGE 36947		12/19/2024	N	N		01/18/2025	12/19/2024	\$0.00
01/02/2025					N			\$7,919.77
80	KRIEGER & STEWART / KRIEGER & STEWART, INC.							50490
EMRLD RDGE 37640		12/19/2024	N	N		01/18/2025	12/19/2024	\$0.00
01/02/2025					N			\$23,218.35
81	KRIEGER & STEWART / KRIEGER & STEWART, INC.							50491
COUNTY SIDE ESTATES		12/19/2024	N	N		01/18/2025	12/19/2024	\$0.00
01/02/2025					N			\$474.00

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82	KRIEGER & STEWART / KRIEGER & STEWART, INC.							50492
COUNTRYSIDE ESTATES		12/19/2024	N	N		01/18/2025	12/19/2024	\$0.00
01/02/2025					N			\$28,323.85
83	KRIEGER & STEWART / KRIEGER & STEWART, INC.							50493
WTR SNSLT		12/19/2024	N	N		12/18/2025	12/19/2024	\$0.00
01/02/2025					N			\$13,018.25
84	KRIEGER & STEWART / KRIEGER & STEWART, INC.							50494
THMP FILT SYS		12/19/2024	N	N		01/18/2025	12/19/2024	\$0.00
01/02/2025					N			\$3,417.85
85	KRIEGER & STEWART / KRIEGER & STEWART, INC.							50496
2023 MANUAL		12/19/2024	N	N		01/18/2025	12/19/2024	\$0.00
01/02/2025					N			\$5,523.25
86	LADDUSAW BRIAN / LADDUSAW BRIAN							20241210
LUNCH/LADD, LEJA		12/10/2024	N	N		01/09/2025	12/10/2024	\$0.00
01/02/2025					N			\$43.15
87	LILLESTRAND / LILLESTRAND LEADERSHIP CONSUL							8094
CNSLT		12/15/2024	N	N		01/14/2025	12/15/2024	\$0.00
01/02/2025					N			\$5,173.99
88	MERIT OIL / MERIT OIL COMPANY							879254
DIESEL		12/17/2024	N	N		01/01/2025	12/17/2024	\$0.00
01/02/2025					N			\$432.34
89	MERIT OIL / MERIT OIL COMPANY							879442
DIESEL		12/18/2024	N	N		01/02/2025	12/18/2024	\$0.00
01/02/2025					N			\$436.80
90	RAMS / ROGERS, ANDERSON, MALODY & SCOTT, LL							76421
FISC 23/24 AUDIT		11/30/2024	N	N		12/30/2024	11/30/2024	\$0.00
01/02/2025					N			\$2,000.00
91	RELIABLE / RELIABLE WORKPLACE SOLUTIONS							RWS24120189
COPIER USG		12/15/2024	N	N		01/14/2025	12/15/2024	\$0.00
01/02/2025					N			\$418.61
92	RELIABLE / RELIABLE WORKPLACE SOLUTIONS							RWS24120160
COPIER USG		12/15/2024	N	N		01/14/2025	12/15/2024	\$0.00
01/02/2025					N			\$35.22
93	ROYAL INDUSTRIAL / ROYAL INDUSTRIAL SOLUTIONS							6441-1139087
WALL CABINET		12/18/2024	N	N		01/17/2025	12/18/2024	\$0.00
01/02/2025					N			\$1,142.34
94	SOCAL TRUCK / SOCAL TRUCKWORKS							14587
R&M TRUCK		12/18/2024	N	N		01/17/2025	12/18/2024	\$0.00
01/02/2025					N			\$880.56
95	YO FIRE / YO FIRE							2034271
PARTS		12/18/2024	N	N		01/17/2025	12/18/2024	\$0.00
01/02/2025					N			\$958.98
96	YO FIRE / YO FIRE							2034223
AIR VAC		12/18/2024	N	N		01/17/2025	12/18/2024	\$0.00
01/02/2025					N			\$1,642.11
97	YO FIRE / YO FIRE							2034273
PARTS		12/19/2024	N	N		01/18/2025	12/19/2024	\$0.00
01/02/2025					N			\$3,814.35

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98	WEBB ALBERT A ASSOC / WEBB, ALBERT A. ASSOCI/							ARIV0006182
AVALON SWR MAIN		11/23/2024	N	N		12/23/2024	11/23/2024	\$0.00
01/02/2025					N			\$4,339.50
99	WEBB ALBERT A ASSOC / WEBB, ALBERT A. ASSOCI/							ARIV0006184
TR 36827		11/23/2024	N	N		12/23/2024	11/23/2024	\$0.00
01/02/2025					N			\$1,034.50
100	WEBB ALBERT A ASSOC / WEBB, ALBERT A. ASSOCI/							ARIV0006400
THOMPSON PLANT BOD		11/23/2024	N	N		12/23/2024	11/23/2024	\$0.00
01/02/2025					N			\$1,359.00
101	WEBB ALBERT A ASSOC / WEBB, ALBERT A. ASSOCI/							ARIV0006447
JURUPA HILLS FORCE M		11/23/2024	N	N		12/23/2024	11/23/2024	\$0.00
01/02/2025					N			\$27,884.60
102	WEBB ALBERT A ASSOC / WEBB, ALBERT A. ASSOCI/							ARIV0006448
WELL 25		11/23/2024	N	N		12/23/2024	11/23/2024	\$0.00
01/02/2025					N			\$25,986.50
103	BPS B'S POOL SUPPLIES / B.P.S. B's POOL SUPPLIES							129611
SOIDUM HYPO		12/24/2024	N	N		01/23/2025	12/24/2024	\$0.00
01/02/2025					N			\$1,383.95
104	DURNEY DON / DURNEY, DON							20241222
GRDNG/WD ABATE		12/22/2024	N	N		01/21/2025	12/22/2024	\$0.00
01/02/2025					N			\$902.50
105	GRAINGER / GRAINGER							9354268212
SUPPLIES		12/23/2024	N	N		01/22/2025	12/23/2024	\$0.00
01/02/2025					N			\$177.47
106	GRAINGER / GRAINGER							9354268220
SUPPLIES		12/23/2024	N	N		01/22/2025	12/23/2024	\$0.00
01/02/2025					N			\$182.19
107	JADTEC SECURITY / JADTEC SECURITY SVCS, INC.							2497981
MON.FEB.25-APR.25"		01/01/2025	N	N		02/01/2025	01/01/2025	\$0.00
01/02/2025					N			\$53.85
108	MCMaster-CARR / McMASTER-CARR SUPPLY CO							37915070
PARTS		12/13/2024	N	N		01/12/2025	12/13/2024	\$0.00
01/02/2025					N			\$1,284.02
109	YO FIRE / YO FIRE							2034274
PARTS		12/20/2024	N	N		01/19/2025	12/20/2024	\$0.00
01/02/2025					N			\$129.30
110	TRI-CO DISPOSAL INC / TRI-CO DISPOSAL, INC							1210-122324.A
COMM TRSH		12/24/2024	N	N		01/23/2025	12/24/2024	\$0.00
01/02/2025					N			\$60,444.47
111	TRI-CO DISPOSAL INC / TRI-CO DISPOSAL, INC							1210-122324.B
RES. TRSH		12/24/2024	N	N		01/23/2025	12/24/2024	\$0.00
01/02/2025					N			\$171,291.58
112	TRI-CO DISPOSAL INC / TRI-CO DISPOSAL, INC							1210-122324.C
RCSD SHR COMM		12/24/2024	N	N		01/23/2025	12/24/2024	\$0.00
01/02/2025					N			(\$8,462.23)
113	TRI-CO DISPOSAL INC / TRI-CO DISPOSAL, INC							1210-122324.D
RCSD SHR RES		12/24/2024	N	N		01/23/2025	12/24/2024	\$0.00
01/02/2025					N			(\$5,732.62)

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114	TRI-CO DISPOSAL INC / TRI-CO DISPOSAL, INC							1210-122324.E
BILLING FEE		12/24/2024	N	N			01/23/2025 12/24/2024	\$0.00
01/02/2025					N			(\$4,500.00)
115	AES WATER / AES WATER, INC.							2038
R&M SEISMIC CNTRLS		12/23/2024	N	N			01/22/2025 12/23/2024	\$0.00
01/02/2025					N			\$2,415.20
116	CORE & MAIN / CORE & MAIN							W177320
GSKT REFUND		12/18/2024	N	N			01/17/2025 12/18/2024	\$0.00
01/02/2025					N			\$155.16
117	CORE & MAIN / CORE & MAIN							V304783
GSKT REFUND		09/25/2024	N	N			10/25/2024 09/25/2024	\$0.00
01/02/2025					N			(\$695.14)
118	HOME DEPOT / HOME DEPOT CREDIT SERVICES							026263/6020059
4 TIER RACK		12/26/2024	N	N			01/25/2025 12/26/2024	\$0.00
01/02/2025					N			\$493.50
119	MERIT OIL / MERIT OIL COMPANY							879141
GASOLINE		12/18/2024	N	N			01/02/2025 12/18/2024	\$0.00
01/02/2025					N			\$1,247.01
120	NORTHSTAR CHEMICALS / NORTHSTAR CHEMICAL							300821
SODIUM SULFITE		12/27/2024	N	N			01/26/2025 12/27/2024	\$0.00
01/02/2025					N			\$4,955.24
121	NORTHSTAR CHEMICALS / NORTHSTAR CHEMICAL							300822
SODIUM HYPO		12/27/2024	N	N			01/26/2025 12/27/2024	\$0.00
01/02/2025					N			\$8,850.70
122	SCE / SCE							24D700456862263.A
FIELD OFC UTILITY		12/24/2024	N	N			01/13/2025 12/24/2024	\$0.00
01/02/2025					N			\$143.04
123	SCE / SCE							24D700456862263.B
NO.03 PLT PMP		12/24/2024	N	N			01/13/2025 12/24/2024	\$0.00
01/02/2025					N			\$14,008.66
124	SCE / SCE							24D700456862263.C
WTR PMP ENERGY		12/24/2024	N	N			01/13/2025 12/24/2024	\$0.00
01/02/2025					N			\$37,446.83
125	CHASE CARD SERVICES / CHASE CARD SERVICES							25J7704975.A
GENERAL OFFICE EXP		12/17/2024	N	N			01/10/2025 12/17/2024	\$0.00
01/02/2025					N			\$1,349.83
126	CHASE CARD SERVICES / CHASE CARD SERVICES							25J7704975.B
OFFICE SUPPLIES GEN		12/17/2024	N	N			01/10/2025 12/17/2024	\$0.00
01/02/2025					N			\$1,633.91
127	CHASE CARD SERVICES / CHASE CARD SERVICES							25J7704975.C
DUES & SUBSCRIPTION		12/17/2024	N	N			01/10/2025 12/17/2024	\$0.00
01/02/2025					N			\$65.00
128	CHASE CARD SERVICES / CHASE CARD SERVICES							25J7704975.D
COMPUTER MISC		12/17/2024	N	N			01/10/2025 12/17/2024	\$0.00
01/02/2025					N			\$3,007.16
129	CHASE CARD SERVICES / CHASE CARD SERVICES							25J7704975.E
EMPLOYEE EDU		12/17/2024	N	N			01/10/2025 12/17/2024	\$0.00
01/02/2025					N			\$1,753.63

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RUBIDOUX COMMUNITY SERVICES DISTRICT  
 JANUARY 16, 2025 (BOARD MEETING)  
**FUND TRANSFER AUTHORIZATION**

<b>NET PAYROLL 1/17/25</b>	93,500.00
ACH TRANSFER: FEDERAL PAYROLL TAXES 1/21/25	35,000.00
ACH TRANSFER: STATE PAYROLL TAXES 1/21/25	8,000.00
ACH TRANSFER: TO CREDIT UNION	6,500.00
ACH TRANSFER: PERS RETIREMENT	27,000.00
ACH TRANSFER: SECTION 125	215.38
ACH TRANSFER: SECTION 457 AND 401(A)	2,350.00

<b>NET PAYROLL 1/31/25</b>	93,500.00
WIRE TRANSFER: FEDERAL PAYROLL TAXES 2/3/25	35,000.00
WIRE TRANSFER: STATE PAYROLL TAXES 2/3/25	8,000.00
WIRE TRANSFER: TO CREDIT UNION	6,500.00
WIRE TRANSFER: PERS RETIREMENT	27,000.00
WIRE TRANSFER: SECTION 125	215.38
WIRE TRANSFER: SECTION 457 AND 401(A)	2,350.00

**CHECKING ACCOUNT TRANSFERS FOR ACCOUNTS PAYABLE:**

1/17/2025 WATER FUND TO GENERAL FUND-Payables	89,093.80
WATER FUND TO GENERAL FUND-Trash	212,564.75
WATER FUND TO SEWER FUND	151,601.43
SEWER FUND TO GENERAL FUND-Payables	149,125.76
BUDGET ADMIN WATER FUND TO GENERAL FUND FY23-24 Q4	606,000.00
BUDGET ADMIN SEWER FUND TO GENERAL FUND FY23-24 Q4	360,500.00
BUDGET ADMIN TRASH FUND FY23-24 Q4	318,000.00
BUDGET ADMIN FIRE FUND FY23-24 Q4	55,500.00
BUDGET PROP TAX TO SF FY24-25 Q1 & Q2	212,500.00
BUDGET PROP TAX TO WF FY24-25 Q1 & Q2	392,050.00
BUDGET PROP TAX TRASH TO GF FY24-25 Q1 & Q2	79,850.00

**INTERFUND TRANSFERS:**

1/17/2025 SEWER FUND CHECKING TO LAIF SEWER OP	2,000.00
GENERAL FUND CHECKING TO LAIF PROP TAX	1,200,000.00
GENERAL FUND PROP TAX TO GENERAL FUND CHECKING	1,461,119.80
GENERAL FUND CHECKING TO WATER FUND CHECKING	22,110.00
LAIF PROPERTY TAX TO GENERAL FUND CHECKING	150.00
WATER FUND CHECKING TO LAIF WATER OP	95,600.00
WATER FUND CHECKING TO LAIF WATER ML	20,400.00

**NOTES PAYABLE**

<u>DESCRIPTION</u>	<u>BALANCE</u>	<u>PAYMENT</u>	<u>DUE DATE</u>
MN Plant-State Revolving Loan	2,909,628 Prin.	144,699	Jul-25
MN Plant-State Revolving Loan	368,135 Intr.	37,399	Jul-25
2022 Obligations	2,940,803 Prin.	330,126	Jul-25
2022 Obligations	372,912 Intr.	44,847	Jul-25

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1	AIRGAS / AIRGAS USA, LLC							5513548719
TANK RNTL		12/31/2024	N	N			01/30/2025 12/31/2024	\$0.00
01/16/2025					N			\$114.76
2	BACKGROUNDS ONLINE / BACKGROUNDS ONLINE							574856
BACKGROUND/MAKARZEC		12/31/2025	N	N			01/30/2025 12/31/2025	\$0.00
01/16/2025					N			\$69.95
3	BOBKO LAW APC / BOBKO LAW APC							34
CITY RVSD APPEAL		01/01/2025	N	N			01/31/2025 01/01/2025	\$0.00
01/16/2025					N			\$4,711.44
4	BUSINESS / BUSINESS TELECOMMUNICATION SYSTI							22099
TELEPHONE		01/03/2025	N	N			02/02/2025 01/03/2025	\$0.00
01/16/2025					N			\$631.31
5	CALIFORNIA UNDERGROUND / CALIF UNDERGROUN							24-252187
DIG SAFE		01/01/2025	N	N			01/31/2025 01/01/2025	\$0.00
01/16/2025					N			\$52.24
6	GEOTAB / GEOTAB USA, INC							IN414668
DEC.24"TRK TCKER		12/31/2025	N	N			01/30/2025 12/31/2025	\$0.00
01/16/2025					N			\$434.75
7	GRAINGER / GRAINGER							9355757189
HOT CUPS		12/26/2024	N	N			01/26/2025 12/26/2024	\$0.00
01/16/2025					N			\$154.40
8	GRAINGER / GRAINGER							9355875445
SUPPLIES		12/26/2024	N	N			01/26/2025 12/26/2024	\$0.00
01/16/2025					N			(\$177.47)
9	GRAINGER / GRAINGER							9361070924
SUPPLIES		01/03/2025	N	N			02/02/2025 01/03/2025	\$0.00
01/16/2025					N			\$427.63
10	HARPER BURNS LLP / HARPER & BURNS LLP							20250101.A
CITY RVSD APPEAL		01/01/2025	N	N			01/31/2025 01/01/2025	\$0.00
01/16/2025					N			\$1,100.00
11	HARPER BURNS LLP / HARPER & BURNS LLP							20250101.B
DEC.24"LGL SVC		01/01/2025	N	N			01/31/2025 01/01/2025	\$0.00
01/16/2025					N			\$1,600.00
12	HARRINGTON INDUSTRIAL / HARRINGTON INDUSTRI							012N4905
PVC		12/30/2024	N	N			01/29/2025 12/30/2024	\$0.00
01/16/2025					N			\$913.03
13	HARRINGTON INDUSTRIAL / HARRINGTON INDUSTRI							012N4916
PVC		12/31/2025	N	N			01/30/2025 12/31/2025	\$0.00
01/16/2025					N			\$524.50
14	INFOSEND / INFOSEND, INC							278384.A
DEC.24"POSTAGE		12/31/2024	N	N			01/30/2025 12/31/2024	\$0.00
01/16/2025					N			\$3,000.71
15	INFOSEND / INFOSEND, INC							278384.B
DEC.24"BILL PRINT		12/31/2025	N	N			01/30/2025 12/31/2025	\$0.00
01/16/2025					N			\$932.53
16	JADTEC SECURITY / JADTEC SECURITY SVCS, INC.							2502896
SVC RPR		01/02/2025	N	N			02/01/2025 01/02/2025	\$0.00
01/16/2025					N			\$854.54

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17	LILLESTRAND / LILLESTRAND LEADERSHIP CONSUL							8098
CNSLT LADDUSAW		12/31/2024	N	N		01/30/2025	12/31/2024	\$0.00
01/16/2025				N				\$768.75
18	LILLESTRAND / LILLESTRAND LEADERSHIP CONSUL							8101
CNSLT		12/31/2024	N	N		01/30/2025	12/31/2024	\$0.00
01/16/2025				N				\$3,090.00
19	LOPEZ, JOSE / LOPEZ, JOSE							20240103
PHYSICAL		01/03/2025	N	N		02/02/2025	01/03/2025	\$0.00
01/16/2025				N				\$95.00
20	MASTER'S / MASTER'S SERVICES (GLACIER)							0000001164828
WTR BTL		01/02/2025	N	N		02/01/2025	01/02/2025	\$0.00
01/16/2025				N				\$35.00
21	MERIT OIL / MERIT OIL COMPANY							880310
GASOLINE		12/26/2024	N	N		01/25/2025	12/26/2024	\$0.00
01/16/2025				N				\$1,097.27
22	OCCUPATIONAL HLTH CNTRS OF CA / OCCUPATIONA							85364072
LOPEZ/MANRIQUE		12/12/2024	N	N		01/11/2025	12/12/2024	\$0.00
01/16/2025				N				\$118.00
23	REDWING / REDWING SHOES							816-1-153646
BOOTS/GONZALES		12/12/2024	N	N		01/11/2025	12/12/2024	\$0.00
01/16/2025				N				\$230.00
24	RIVERSIDE CITY / RIVERSIDE CITY							00279433.A
NOV.24"TRTMNT		12/24/2024	N	N		01/23/2025	12/24/2024	\$0.00
01/16/2025				N				\$127,316.20
25	RIVERSIDE CITY / RIVERSIDE CITY							00279433.B
NOV.24"SURCHR		12/24/2024	N	N		01/23/2025	12/24/2024	\$0.00
01/16/2025				N				\$14,518.81
26	FELIPE ROBLEDO JR. / FELIPE ROBLEDO JR.							20150106
EDU/D2 CERT		01/06/2025	N	N		02/05/2025	01/06/2025	\$0.00
01/16/2025				N				\$60.00
27	SALAS / SALAS, MARCOS							20240106
EDU-T2.D4.TRTMNT		01/06/2025	N	N		02/05/2025	01/06/2025	\$0.00
01/16/2025				N				\$684.99
28	SCE / SCE							24D700136714571
WTR PMP ENRGY		12/26/2024	N	N		01/15/2025	12/26/2024	\$0.00
01/16/2025				N				\$2,659.42
29	SCE / SCE							24D700179651118
SWR PMP ENRGY		12/26/2024	N	N		01/15/2025	12/26/2024	\$0.00
01/16/2025				N				\$340.80
30	SCE / SCE							25J700244764992
STRT LIGHTS		01/02/2025	N	N		01/22/2025	01/02/2025	\$0.00
01/16/2025				N				\$148.60
31	SCE / SCE							25J600000522796
STRT LIGHTS		01/03/2025	N	N		01/23/2025	01/03/2025	\$0.00
01/16/2025				N				\$4,894.63
32	SCG / THE GAS COMPANY							25J05925730565
FIRE STN UTILITY		01/06/2025	N	N		01/27/2025	01/06/2025	\$0.00
01/16/2025				N				\$256.48

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33	SCG / THE GAS COMPANY							25J12013321489
5473	UTILITY	01/06/2025	N	N		01/27/2025	01/06/2025	\$0.00
01/16/2025					N			\$227.39
34	SCG / THE GAS COMPANY							25J17882256005
MAIN OFC	UTILITY	01/06/2025	N	N		01/27/2025	01/06/2025	\$0.00
01/16/2025					N			\$143.58
35	SCG / THE GAS COMPANY							25J01302181001
FLD OFC	UTILITY	01/06/2025	N	N		01/27/2025	01/06/2025	\$0.00
01/16/2025					N			\$17.00
36	SOCAL TRUCK / SOCAL TRUCKWORKS							14614
R&M TRUCK		12/27/2024	N	N		01/26/2025	12/27/2024	\$0.00
01/16/2025					N			\$115.93
37	STEPSAVER / STEP-SAVER CA.LLC							CT404083
SALT		12/31/2024	N	N		01/30/2025	12/31/2024	\$0.00
01/16/2025					N			\$4,268.37
38	TIRE CHOICE AUTO SERVICE CENTERS / TIRE CHOICE							146512
R&M TRUCK		12/19/2024	N	N		12/18/2025	12/19/2024	\$0.00
01/16/2025					N			\$2,012.13
39	THE PRESS-ENTERPRISE / THE PRESS ENTERPRISE							20241231
2ND NOTICE	VACANCY	12/31/2024	N	N		01/30/2025	12/31/2024	\$0.00
01/16/2025					N			\$259.36
40	TRUJILLO MELISSA / TRUJILLO MELISSA							20241217
MILEAGE		12/17/2024	N	N		01/16/2025	12/17/2024	\$0.00
01/16/2025					N			\$17.55
41	UNDERGROUND SERVICE ALERT / UNDERGROUND SERVICE							1220240577
DIG SAFE		01/01/2025	N	N		01/31/2025	01/01/2025	\$0.00
01/16/2025					N			\$198.70
42	UPS / UNITED PARCEL SERVICE							0000F908W2514
POSTAGE		12/21/2024	N	N		01/20/2025	12/21/2024	\$0.00
01/16/2025					N			\$18.25
43	SWRCB ACCOUNTING OFFICE / SWRCB - ACCOUNTING							LW-1049510
ANNUAL WTR	SYS.FEE	12/20/2024	N	N		01/19/2025	12/20/2024	\$0.00
01/16/2025					N			\$44,643.20
44	WESTERN MUNICIPAL WATER / WESTERN MUNICIPAL							IN-16185
NOV.24"BRINE		12/27/2024	N	N		01/26/2025	12/27/2024	\$0.00
01/16/2025					N			\$153.35
45	WESTERN MUNICIPAL WATER / WESTERN MUNICIPAL							IN-16193
NOV.24"BRINE		12/27/2024	N	N		01/26/2025	12/27/2024	\$0.00
01/16/2025					N			\$1,198.65
46	YO FIRE / YO FIRE							2034321
GATE KEY		12/26/2024	N	N		01/25/2025	12/26/2024	\$0.00
01/16/2025					N			\$129.30
47	YO FIRE / YO FIRE							2034238
AIR VAC COVER		12/27/2024	N	N		01/26/2025	12/27/2024	\$0.00
01/16/2025					N			\$517.20
48	YO FIRE / YO FIRE							2034367
HYD MTR		12/27/2024	N	N		01/26/2025	12/27/2024	\$0.00
01/16/2025					N			\$3,624.71

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49	CLINICAL LABORATORY OF SAN BERNARDINO / CLIN							2401981-KIM CLIENT
WTR ANALYSES		12/13/2024	N	N		01/12/2025	12/13/2024	\$0.00
01/16/2025					N			\$7,717.50
50	CLINICAL LABORATORY OF SAN BERNARDINO / CLIN							2401982-KIM CLIENT
WTR ANALYSES		12/13/2024	N	N		01/12/2025	12/13/2024	\$0.00
01/16/2025					N			\$6,827.50
51	CLINICAL LABORATORY OF SAN BERNARDINO / CLIN							2401983-KIM CLIENT
WTR ANALYSES		12/13/2024	N	N		01/12/2025	12/13/2024	\$0.00
01/16/2025					N			\$2,340.00
52	JADTEC SECURITY / JADTEC SECURITY SVCS, INC.							2502886
SVC REPR CALL		12/31/2024	N	N		01/30/2025	12/31/2024	\$0.00
01/16/2025					N			\$432.13
53	MERIT OIL / MERIT OIL COMPANY							881343
GASOLINE		12/31/2024	N	N		01/30/2025	12/31/2024	\$0.00
01/16/2025					N			\$862.27
54	TRI-CO DISPOSAL INC / TRI-CO DISPOSAL, INC							1224-010625.A
COMM TRSH		01/07/2025	N	N		02/06/2025	01/07/2025	\$0.00
01/16/2025					N			\$57,022.62
55	TRI-CO DISPOSAL INC / TRI-CO DISPOSAL, INC							1224-010625.B
RES TRSH		01/07/2025	N	N		02/06/2025	01/07/2025	\$0.00
01/16/2025					N			\$155,542.13
56	TRI-CO DISPOSAL INC / TRI-CO DISPOSAL, INC							1224-010625.C
RCSD SHR COMM		01/07/2025	N	N		02/06/2025	01/07/2025	\$0.00
01/16/2025					N			(\$7,983.17)
57	TRI-CO DISPOSAL INC / TRI-CO DISPOSAL, INC							1224-010625.D
RCSD SHR RES		01/07/2025	N	N		02/06/2025	01/07/2025	\$0.00
01/16/2025					N			(\$4,649.61)
58	DURNEY DON / DURNEY, DON							20240105
GRDNG/WD ABATE		01/05/2025	N	N		02/04/2025	01/05/2025	\$0.00
01/16/2025					N			\$2,195.73
59	SCE / SCE							25J700040982544
MAIN OFC UTILITY		01/06/2025	N	N		01/27/2025	01/06/2025	\$0.00
01/16/2025					N			\$1,301.84
60	SCE / SCE							25J700617778997
FIRE STN UTILITY		01/06/2025	N	N		01/27/2025	01/06/2025	\$0.00
01/16/2025					N			\$1,532.78
61	ACORN / ACORN TECHNOLOGY SERVICE							12033
JAN.25"IT.SUPT /CYBE		01/01/2025	N	N		01/21/2025	01/01/2025	\$0.00
01/16/2025					N			\$5,280.24
62	AT&T / AT&T							000022850294
PHN CHGRS		01/07/2025	N	N		02/13/2025	01/07/2025	\$0.00
01/16/2025					N			\$731.55
63	ZELDAS / GRISELDA RODRIGUEZ							INVOICE11575
RCSD JACKET/BOARD		12/30/2025	N	N		01/29/2025	12/30/2025	\$0.00
01/16/2025					N			\$400.08

**Grand Totals**

**Total Direct Expense:** \$471,566.78  
**Total Direct Expense Adj:** (\$12,810.25)  
**Total Non-Electronic Transactions:** \$458,756.53

*pm*

*kt*



**5. CONSENT CALENDAR (continued)**

**C. DM 2025-01: Receive and File Statement of Cash Asset Schedule  
Report Ending November 2024**

# Rubidoux Community Services District

## Board of Directors

Hank Trueba Jr., President  
Diana Leja, Vice-President  
Bernard Murphy  
John Skerbelis  
Leslie Altamirano

## General Manager

Brian R. Laddusaw



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Water Resource Management    Refuse Collection    Street Lights    Fire / Emergency Services    Weed Abatement

**DIRECTORS MEMORANDUM 2025-01**

January 16, 2024

**To:**            Rubidoux Community Services District  
                    Board of Directors

**Subject:**        Receive and File Statement of Cash Asset Schedule Report Ending November 2024

## **BACKGROUND:**

Attached for the Board of Directors' consideration is the November 2024 Statement of Cash Assets Schedule Report for all District Fund Accounts. Year to date ("YTD") interest is \$755,735.00 for District controlled accounts. With respect to District "Funds in Trust," \$17,901.01 has been earned and posted. The District has a combined YTD interest earned total of \$773,636.01 as of November 30, 2024.

The District's Operating Funds (Excluding Restricted Funds and Operating Reserves) show a balance of \$10,648,611.30 ending November 30, 2024. This is **\$4,398,872.11 LESS** than July 1, 2024, beginning balance of \$15,047,483.41.

Further, the District's Field/Admin Fund current fund balance is \$805,093.44.

Submitted for the Board of Directors consideration is the *November 2024 Statement of Cash Assets Schedule Report* for review and acceptance.

**RECOMMENDATION:**

Staff recommends the Board of Directors “**Receive and File**” the November 2024 Statement of Cash Assets Schedule Report.

Respectfully,



BRIAN R. LADDUSAW, CPA  
General Manager

Attachment(s): November 2024, Cash Assets Schedule Report

RUBIDOUX COMMUNITY SERVICES DISTRICT

INVESTMENT SUMMARY - NOVEMBER 30, 2024  
CASH BASIS

	Beg. Balance 7/1/2024	YTD Int.	Other Activity YTD	Balance 11/30/2024	YTD Avg. Int. Rate
<b>Operating Accounts</b>	<b>\$ 15,047,483.41</b>	<b>\$ 274,293.89</b>	<b>\$ (4,673,166.00)</b>	<b>\$ 10,648,611.30</b>	<b>2.58%</b>
Water Operating Reserve	4,350,030.08	99,649.43	164,123.89	4,613,803.40	2.16%
Wastewater Operating Reserve	594,121.20	15,531.58	22,478.17	632,130.95	2.46%
Water Replacement Reserve	925,390.63	6,081.97	(931,472.60)	-	0.66%
Fire Mitigation Reserve	3,509,799.71	62,351.52	155,877.27	3,728,028.50	1.67%
Wastewater Reserve	2,546,413.30	68,729.12	275,366.07	2,890,508.49	2.38%
Wastewater Replacement Res.	555,486.59	15,153.87	31,017.55	601,658.01	2.52%
Water Reserve	2,833,192.90	66,491.89	51,858.77	2,951,543.56	2.25%
COP Restricted	1,677,828.24	16,884.76	(1,694,713.00)	-	0.00%
Field/Admin Reserve	756,762.79	19,781.30	28,549.35	805,093.44	2.46%
Project Admin Building	1,111,853.50	29,066.20	42,066.20	1,182,985.90	2.46%
Project Ops Building	2,023,136.18	52,889.05	76,543.95	2,152,569.18	2.46%
Short-Term and Long-Term Strategic Investment Portfolio	-	15,324.42	4,970,462.65	4,985,787.07	0.31%
CalPERS - Section 115 Trust (CEPPT)	-	13,506.00	299,880.00	313,386.00	4.31%
Funds in Trust	1,109,503.24	17,901.01	21,857.83	1,149,262.08	1.56%
<b>Total Investments</b>	<b>\$ 37,041,001.77</b>	<b>\$ 773,636.01</b>	<b>\$ (1,159,269.90)</b>	<b>\$ 36,655,367.88</b>	<b>2.11%</b>



RUBIDOUX COMMUNITY SERVICES DISTRICT  
**CASH ASSET SCHEDULE**  
**INVESTMENT ACTIVITY**  
 FOR PERIOD JULY 1, 2024 THRU NOVEMBER 30, 2024  
 CASH BASIS

<b>FIRE MITIGATION</b>									
<u>DATE</u>	<u>INSTITUTION</u>	<u>INSTRUMENT</u>	<u>MATURITY</u>	<u>STATUS</u>	<u>PURCHASE / REDEEM</u>	<u>INT. RATE</u>	<u>INTEREST</u>	<u>PAR/ BALANCE</u>	<u>TOTAL</u>
11/1/2024	Premier Bank	<b>CD</b>		Beg. Bal.				170,424.60	
	Premier Bank			Interest	624.95	4.88%	-	170,424.60	
	Premier Bank			Redeem	-			170,424.60	
11/30/2024	Premier Bank	<b>CD</b>	10/3/2024	Purchase	-			170,424.60	
11/1/2024	Premier Bank	<b>Checking Fire Mitigation</b>		Beg. Bal.				8,835.50	
	Premier Bank			Activity	-	0.00	-	8,835.50	
11/30/2024	Premier Bank			End Bal.	-			8,835.50	
11/1/2024	LAIF	<b>Fire Mitigation</b>		Beg. Bal.				1,517,390.36	
	LAIF			Interest		4.30%	-	1,517,390.36	
11/30/2024	LAIF			Activity	1,898.85			1,519,289.21	
11/1/2024	U.S. Bank	<b>US BANK - TVI</b>		Beg. Bal				2,000,000.00	
			Deposits	-	4.560%	964.74	2,000,964.74		
11/30/2024			Disbursements	(1,877.67)			1,999,087.07		
11/1/2024	Premier Bank	<b>Safekeeping</b>		Beg. Bal				29,767.17	
	Premier Bank			Activity	-	-	624.95	30,392.12	
11/30/2024	Premier Bank			End Bal.				30,392.12	\$ 3,728,028.50

RUBIDOUX COMMUNITY SERVICES DISTRICT  
**CASH ASSET SCHEDULE**  
**INVESTMENT ACTIVITY**  
 FOR PERIOD JULY 1, 2024 THRU NOVEMBER 30, 2024  
 CASH BASIS

**WASTEWATER CIP FUNDS**

<u>DATE</u>	<u>INSTITUTION</u>	<u>INSTRUMENT</u>	<u>MATURITY</u>	<u>STATUS</u>	<u>PURCHASE / REDEEM</u>	<u>INT. RATE</u>	<u>INTEREST</u>	<u>PAR/ BALANCE</u>	<u>TOTAL</u>
11/1/2024	LAIF	<b>Sewer Mainline</b>		Beg. Bal.				2,806,673.75	
	LAIF			Interest		4.30%	-	2,806,673.75	
11/30/2024	LAIF			Activity	11,391.17			2,818,064.92	
11/1/2024	CBB	<b>Safekeeping</b>		Beg. Bal				72,443.57	
	CBB			Activity	-	0.05%	-	72,443.57	
11/30/2024	CBB			End Bal.				72,443.57	\$ 2,890,508.49

RUBIDOUX COMMUNITY SERVICES DISTRICT  
**CASH ASSET SCHEDULE**  
**INVESTMENT ACTIVITY**  
 FOR PERIOD JULY 1, 2024 THRU NOVEMBER 30, 2024  
 CASH BASIS

**WATER CIP FUNDS**

<u>DATE</u>	<u>INSTITUTION</u>	<u>INSTRUMENT</u>	<u>MATURITY</u>	<u>STATUS</u>	<u>PURCHASE / REDEEM</u>	<u>INTEREST RATE</u>	<u>INTEREST</u>	<u>PAR/ BALANCE</u>	<u>TOTAL</u>
11/1/2024	LAIF	<b>Water Mainline</b>		Beg. Bal.				2,698,947.19	
	LAIF			Interest		4.30%	-	2,698,947.19	
11/30/2024	LAIF			Activity	318.37			2,699,265.56	
11/1/2024	Premier Bank	<b>Safekeeping</b>		Beg. Bal.				1,670.97	
	Premier Bank			Activity	-	-	-	1,670.97	
11/30/2024	Premier Bank			End Bal.				1,670.97	
11/1/2024	CBB	<b>Safekeeping</b>		Beg. Bal.				250,607.03	
	CBB			Activity	-	0.05%	-	250,607.03	
11/30/2024	CBB			End Bal.				250,607.03	\$ 2,951,543.56

RUBIDOUX COMMUNITY SERVICES DISTRICT  
**CASH ASSET SCHEDULE**  
**INVESTMENT ACTIVITY**  
FOR PERIOD JULY 1, 2024 THRU NOVEMBER 30, 2024  
CASH BASIS

**OPERATING FUNDS**

<u>DATE</u>	<u>INSTITUTION</u>	<u>INSTRUMENT</u>	<u>MATURITY</u>	<u>STATUS</u>	<u>DEPOSIT/ WITHDRAW</u>	<u>INTEREST RATE</u>	<u>INTEREST</u>	<u>PAR/ BALANCE</u>	<u>TOTAL</u>
11/1/2024	Premier Bank	<b>Checking-Gen.</b>		Beg. Bal.				216,210.05	
	Premier Bank			Deposits	1,839,487.22	0.00	-	2,055,697.27	
11/30/2024	Premier Bank			Disbursements	(1,873,821.86)			181,875.41	
11/1/2024	Premier Bank	<b>Checking Property Tax</b>		Beg. Bal.				124,367.87	
	Premier Bank			Deposits	-	0.00	-	124,367.87	
11/30/2024	Premier Bank			Disbursements	(119,867.87)			4,500.00	
11/1/2024	Premier Bank	<b>Checking-Sewer</b>		Beg. Bal.				4,593.88	
	Premier Bank			Deposits	337,771.77	0.00	-	342,365.65	
11/30/2024	Premier Bank			Disbursements	(338,356.96)			4,008.69	
11/1/2024	Premier Bank	<b>Checking-Water</b>		Beg. Bal.				1,217,063.67	
	Premier Bank			Deposits	1,245,131.73	0.00	-	2,462,195.40	
11/30/2024	Premier Bank			Disbursements	(1,819,625.23)			642,570.17	
11/1/2024	Bank of America	<b>Paymode</b>		Beg. Bal.				3,899.23	
	Bank of America			Deposits	-	0.00	0.81	3,900.04	
11/30/2024	Bank of America			Disbursements	-			3,900.04	

RUBIDOUX COMMUNITY SERVICES DISTRICT  
**CASH ASSET SCHEDULE**  
**INVESTMENT ACTIVITY**  
 FOR PERIOD JULY 1, 2024 THRU NOVEMBER 30, 2024  
 CASH BASIS

**OPERATING FUNDS**

<u>DATE</u>	<u>INSTITUTION</u>	<u>INSTRUMENT</u>	<u>MATURITY</u>	<u>STATUS</u>	<u>DEPOSIT/ WITHDRAW</u>	<u>INTEREST RATE</u>	<u>INTEREST</u>	<u>PAR/ BALANCE</u>	<u>TOTAL</u>
11/1/2024	Premier Bank	<b>Operations</b>		Beg. Bal				276,342.99	
	Premier Bank	<b>Safekeeping</b>		Deposits	-	-	-	276,342.99	
11/30/2024	Premier Bank			Disbursements				276,342.99	
11/1/2024	LAIF	<b>Gen. Fund-Prop Tax</b>		Beg. Bal.				4,638,108.45	
	LAIF	Qtrly. Interest		Interest		4.30%	-	4,638,108.45	
11/30/2024	LAIF			Activity	208,312.29			4,846,420.74	
11/1/2024	LAIF	<b>Water Op.</b>		Beg. Bal.				2,734,484.99	
	LAIF	Qtrly. Interest		Interest		4.30%	-	2,734,484.99	
11/30/2024	LAIF			Activity	116,406.80			2,850,891.79	
11/1/2024	LAIF	<b>Sewer Op.</b>		Beg. Bal.				1,658,951.19	
	LAIF	Qtrly. Interest		Interest		4.30%	-	1,658,951.19	
11/30/2024	LAIF			Activity	179,150.28			1,838,101.47	\$10,648,611.30

RUBIDOUX COMMUNITY SERVICES DISTRICT  
**CASH ASSET SCHEDULE**  
**INVESTMENT ACTIVITY**  
FOR PERIOD JULY 1, 2024 THRU NOVEMBER 30, 2024  
CASH BASIS

**RESERVED FUNDS**

<u>DATE</u>	<u>INSTITUTION</u>	<u>INSTRUMENT</u>	<u>MATURITY</u>	<u>STATUS</u>	<u>DEPOSIT/ WITHDRAW</u>	<u>INTEREST RATE</u>	<u>INTEREST</u>	<u>PAR/ BALANCE</u>	<u>TOTAL</u>
11/1/2024	LAIF	<b>Water Op. Reserve</b>		Beg. Bal.				3,614,259.87	
	LAIF	Qtrly. Interest		Interest	-	4.30%	-	3,614,259.87	
11/30/2024	LAIF			Activity	-			3,614,259.87	
11/1/2024		<b>US BANK - TVI</b>		Beg. Bal.				1,000,000.00	
	U.S. Bank			Deposits	-	4.560%	482.37	1,000,482.37	
11/30/2024				Disbursements	(938.84)			999,543.53	
11/1/2024	LAIF	<b>Water Replacement</b>		Beg. Bal.				123,477.76	
	LAIF	Qtrly. Interest		Interest		4.30%	-	123,477.76	
11/30/2024	LAIF			Activity	(123,477.76)			-	
11/1/2024	LAIF	<b>Wastewater Replacement</b>		Beg. Bal.				601,658.01	
	LAIF	Qtrly. Interest		Interest		4.30%	-	601,658.01	
11/30/2024	LAIF			Activity	-			601,658.01	
11/1/2024	LAIF	<b>Field/Admin Bldg.</b>		Beg. Bal.				805,093.44	
	LAIF	Qtrly Interest		Interest	-	4.30%	-	805,093.44	
11/30/2024	LAIF			Activity	-			805,093.44	
11/1/2024	LAIF	<b>Wastewater Op. Reserve</b>		Beg. Bal.				632,130.95	
	LAIF	Qtrly. Interest		Interest	-	4.30%	-	632,130.95	
11/30/2024	LAIF			Activity	-			632,130.95	
11/1/2024	LAIF	<b>Project Admin Bldg</b>		Beg. Bal.				1,182,985.90	
	LAIF	Qtrly. Interest		Interest	-	4.30%	-	1,182,985.90	
11/30/2024	LAIF			Activity	-			1,182,985.90	
11/1/2024	LAIF	<b>Project Ops Bldg</b>		Beg. Bal.				2,152,569.18	
	LAIF	Qtrly. Interest		Interest	-	4.30%	-	2,152,569.18	
11/30/2024	LAIF			Activity	-			2,152,569.18	\$ 9,988,240.88



RUBIDOUX COMMUNITY SERVICES DISTRICT  
**CASH ASSET SCHEDULE**  
**INVESTMENT ACTIVITY**  
 FOR PERIOD JULY 1, 2024 THRU NOVEMBER 30, 2024  
 CASH BASIS

**SHORT-TERM AND LONG-TERM STRATEGIC INVESTMENT PORTFOLIO**

<u>DATE</u>	<u>INSTITUTION</u>	<u>INSTRUMENT</u>	<u>MATURITY</u>	<u>STATUS</u>	<u>PURCHASE / REDEEM</u>	<u>INTEREST RATE</u>	<u>INTEREST / CHANGE IN FMV</u>	<u>MV/ BALANCE</u>	<u>TOTAL</u>
11/1/2024		<b>US BANK - TVI</b>		Beg. Bal				4,988,063.57	
	U.S. Bank			Deposits	-	4.560%	2,405.67	4,990,469.24	
11/30/2024				Disbursements	(4,682.17)			4,985,787.07	\$ 4,985,787.07

RUBIDOUX COMMUNITY SERVICES DISTRICT  
**CASH ASSET SCHEDULE**  
**INVESTMENT ACTIVITY**  
 FOR PERIOD JULY 1, 2024 THRU NOVEMBER 30, 2024  
 CASH BASIS

**CALPERS - SECTION 115 TRUST (CEPPT)**

<u>DATE</u>	<u>INSTITUTION</u>	<u>INSTRUMENT</u>	<u>MATURITY</u>	<u>STATUS</u>	<u>PURCHASE / REDEEM</u>	<u>INTEREST RATE</u>	<u>INTEREST</u>	<u>PAR/ BALANCE</u>	<u>TOTAL</u>
11/1/2024		<b>Section 115 Trust (CEPPT)</b>		Beg. Bal				313,386.00	
	CalPERS	<b>Strategy 2</b>		Deposits	-	6.860%	-	313,386.00	
11/30/2024				Disbursements	-			313,386.00	\$ 313,386.00

RUBIDOUX COMMUNITY SERVICES DISTRICT  
**CASH ASSET SCHEDULE**  
**INVESTMENT ACTIVITY**  
 FOR PERIOD JULY 1, 2024 THRU NOVEMBER 30, 2024  
 CASH BASIS

<b>FUNDS IN TRUST</b>										
<u>DATE</u>	<u>INSTITUTION</u>	<u>INSTRUMENT</u>	<u>MATURITY</u>	<u>STATUS</u>	<u>PURCHASE / REDEEM</u>	<u>INTEREST RATE</u>	<u>INTEREST</u>	<u>PAR/ BALANCE</u>	<u>TOTAL</u>	
11/1/2024	U.S. Bank	<b>COP's Refunding-Series 1998</b> Install Sale Reserve-LAIF (From US Bank)			-	4.79%	-	772,402.27		
				781,373.63	-	4.79%	8,971.36	772,402.27		
11/30/2024									781,373.63	
11/1/2024	Premier Bank	<b>Fiscal Agent-SRL MN Plant</b>		Beg. Bal				367,843.22		
					Deposits	-	0.073%	45.23	367,888.45	
11/30/2024					Disbursements	-			367,888.45	\$ 1,149,262.08
<b>TOTAL CASH FUNDS</b>									<b>\$36,655,367.88</b>	

RCSD PORTFOLIO HOLDINGS REPORT  
NOVEMBER 30, 2024

<u>Issuer</u>	<u>Maturity</u>	<u>Acquisition Cost</u>	<u>Current Market</u>	<u>Gain/Loss</u>	<u>Yld Mat</u>
<b>AGENCY</b>		2,987,954.71	2,956,999.50	(30,955.21)	-
<b>U.S. TREASURIES</b>		1,251,724.29	1,259,908.00	8,183.71	-
<b>COMMERCIAL PAPER</b>		-	-	-	-
<b>CALPERS - SECTION 115 TRUST (CEPPT)</b>		\$ 313,386.00	\$ 313,386.00	-	-
<b>FUNDS IN TRUST</b>		\$ 1,149,262.08	\$ 1,149,262.08	-	
<b>COLLATERALIZED TIME DEPOSITS</b>					
Premier	4/3/2025	\$ 170,424.60	\$ 170,424.60		4.88%
US Bank	Various	2,956,000.00	2,959,163.79		Various
Subtotals		\$ 3,126,424.60	\$ 3,129,588.39	3,163.79	
<b>CASH EQUIVALENT &amp; MONEY MARKET</b>					
LOCAL AGENCY INVESTMENT FUND (LAIF)		\$ 25,560,731.04	\$ 25,560,731.04	-	4.30%
US BANK CASH AND MONEY MARKET		\$ 795,692.97	\$ 808,346.38	12,653.41	0.00%
DEPOSITS HELD WITH FINANCIAL INSTITUTIONS		\$ 1,477,146.49	\$ 1,477,146.49	-	-
Subtotals		\$ 27,833,570.50	\$ 27,846,223.91	12,653.41	
<b>GRAND TOTALS</b>		<u>\$ 36,662,322.18</u>	<u>\$ 36,655,367.88</u>	<u>15,817.20</u>	

**RCSD INVESTMENT PORTFOLIO  
NOVEMBER 30, 2024**

**Maturity**

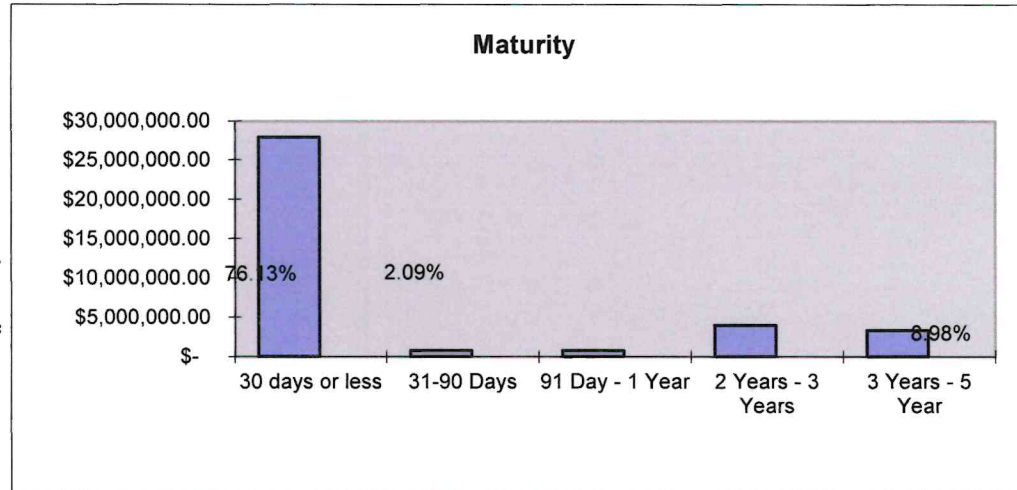
30 days or less  
31-90 Days  
91 Day - 1 Year  
2 Years - 3 Years  
3 Years - 5 Year

**Assets**

\$ 27,906,563.51  
764,386.70  
751,612.50  
3,939,812.46  
3,292,992.71

Total

\$ 36,655,367.88



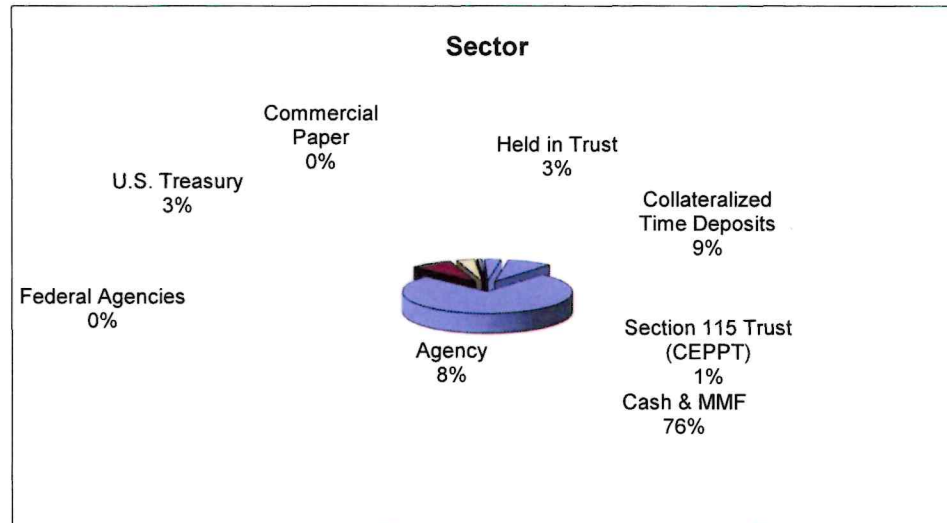
**Sector**

Cash & MMF  
Agency  
U.S. Treasury  
Federal Agencies  
Commercial Paper  
Section 115 Trust (CEPPT)  
Held in Trust  
Collateralized Time Deposits

\$ 27,846,223.91  
\$ 2,956,999.50  
1,259,908.00  
-  
-  
313,386.00  
1,149,262.08  
3,129,588.39

Total

\$ 36,655,367.88



5. **CONSENT CALENDAR** (continued)

D. **DM 2025-02**: Consideration to Approve a Master Service Agreement for SCADA System Services with Stellar Technology

# Rubidoux Community Services District

## Board of Directors

Hank Trueba Jr., President  
Diana Leja, Vice-President  
Bernard Murphy  
John Skerbelis  
Leslie Altamirano

## General Manager

Brian R. Laddusaw



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Water Resource Management    Refuse Collection    Street Lights    Fire / Emergency Services    Weed Abatement

**DIRECTORS MEMORANDUM 2025-02**

January 16, 2025

**To:** Rubidoux Community Services District  
Board of Directors

**Subject:** Consideration to Approve a Master Service Agreement for SCADA System Services with Stellar Technology

## **BACKGROUND:**

A Supervisory Control and Data Acquisition (“SCADA”) system is a critical tool for modern water and wastewater utilities. SCADA systems monitor and control processes, enabling operators to track system performance in real-time, manage operations remotely, and respond quickly to anomalies. An up-to-date SCADA system enhances operational efficiency, reliability, and regulatory compliance while minimizing downtime and reducing long-term costs.

The Rubidoux Community Services District (“District”) currently operates an older SCADA system that, while semi functional, has significant limitations:

- **Deficiencies:**

- Limited remote-control capabilities restrict staff’s ability to manage operations efficiently outside of business hours.
  - This results in a delayed response time while the on-call employee responds to the alarm on site. Some employees live upwards of 1-hour from the District boundaries. Further, the District pays more in overtime and double overtime as employees are paid “portal to portal” for responding to events like SCADA alarms.
- Aging hardware and software components are less reliable, increasing the risk of operational interruptions.
  - Due to the age of the District’s SCADA hardware, at times the District is forced to source replacement parts from non-OEM (Original Equipment Manufacturers) suppliers like



eBay, third-party vendors, or surplus marketplaces, as the system is so outdated that compatible replacement parts are no longer manufactured and can only be found through these specialized channels.

- Lack of system integration hinders streamlined communication between various facilities, including treatment plants, pump stations, and reservoirs.
    - The District currently lacks a designated SCADA technician or manager on staff. While the recently hired Engineering Technician/IT Business Systems/GIS Analyst has the skills to learn and manage the SCADA system, their primary responsibilities are focused on engineering, business applications, and GIS functions, leaving limited capacity to dedicate to the SCADA system. Historically, the District has relied on its electrical vendor, Center Electric, for SCADA-related support. However, as a small organization, Center Electric is unable to provide the level of responsiveness and hands-on attention required to adequately support the District's SCADA needs.
  - Insufficient real-time data and alarm systems delay proactive responses to potential issues.
- **Needs:**

Upgrading the SCADA system, combined with establishing a partnership with a qualified SCADA expert, will allow the District to address these deficiencies and meet growing demands. An enhanced system will provide improved data accuracy, system-wide integration, and better tools for staff to optimize operations and meet future challenges.

### **IMPORTANCE OF AN UPDATED SCADA SYSTEM:**

Investing in a state-of-the-art SCADA system will:

1. **Improve Operational Efficiency:**

Automated controls and centralized monitoring will streamline workflows and reduce manual intervention.
2. **Enhance Reliability:**

Upgraded alarms, backup systems, and predictive analytics will enable faster responses to potential issues, minimizing service disruptions.
3. **Increase Regulatory Compliance:**

Improved data collection and reporting will help the District meet and exceed local and state regulatory requirements.
4. **Future-Proof Operations:**

Scalable technology ensures the District can adapt to emerging needs, population growth, and environmental changes.

### **CURRENT INITIATIVES, BUDGET, AND TIMELINE:**

Understanding this critical need, the District included in its Fiscal Year (“FY”) 2024|2025 Water and Sewer Fund Budgets the following line items:

- Water Fund Budget: Line 86 'SCADA Replacement – Water Portion (Planning)' \$100,000
- Sewer Fund Budget: Line 50 'SCADA Samsara Alternative' \$100,000

A SCADA expert is essential for the successful implementation, optimization, and maintenance of the system. Due to the complexity of SCADA systems and the specialized expertise required, the District received only one proposal, submitted by Stellar Technology and Automation (“S-Tekk”). S-Tekk specializes in PLC (programmable logic controller) programming, HMI/OIT interface (human-machine interface/operator interface terminal), and SCADA system design and maintenance. In accordance with the District’s Procurement Policy (“Policy”), Section 1040.21 Sole and Single Source Purchases, the single proposal from S-Tekk is deemed Policy compliant under Subsection (c), which states that a vendor may be selected if they are “uniquely qualified to provide the product or service.” Additionally, S-Tekk’s location in Jurupa Valley ensures the responsiveness and hands-on support necessary to effectively meet the District’s SCADA system requirements, aligning with the Board of Directors’ (“Board”) preference for partnering with organizations within the community. A full SCADA system assessment is provided for in Attachment 1.

The proposed Master Service Agreement (“MSA”) with S-Tekk provides the framework to continue this work through Task Orders (Attachment 2). These Task Orders will address specific deficiencies, such as upgrading hardware, integrating data systems, and enhancing software capabilities, ensuring a phased approach to modernization. Once the MSA is executed, the District will issue Task Orders up to the amounts carried in the FY 2024|2025 Water and Sewer Fund Budgets. Should any one item exceed the signing authority of staff noted in Section 1040.6 of the Procurement Policy, staff will bring the item to the Board for future consideration.

The District is targeting full modernization of the SCADA system within the next **three to five years**. This phased timeline will ensure steady progress while maintaining budgetary and operational stability. The District remains committed to achieving a fully operational SCADA system that meets our needs and expectations. Ongoing budgeting will support these efforts through the completion of this critical initiative.

**RECOMMENDATION:**

Staff recommends the Board of Directors consider the following:

1. Authorize the General Manager to execute a Master Service Agreement with Stellar Technology and Automation to address SCADA system deficiencies and ensure ongoing support for modernization efforts.
2. Authorize the General Manager, or their designee, to issue Task Orders not exceeding the amounts allocated in the FY 2024|2025 Water and Sewer Fund Budgets, up to \$100,000 each, respectively.

Respectfully,



BRIAN R. LADDUSAW, CPA  
General Manager

Attachment(s):

1. Stellar Technology and Automation RCSD SCADA Assessment
2. Draft Master Service Agreement with Stellar Technology and Automation (RCSD 2025-01)



# **SCADA SYSTEM ASSESSMENT**

**RUBIDOUX COMMUNITY SERVICE DISTRICT**

**JANUARY 06, 2025**



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## CONCISE OVERVIEW

The SCADA System Assessment conducted by Stellar Technology & Automation on October 29, 2024, for the Rubidoux Community Services District (RCSD) reveals a pressing need for modernization to address operational inefficiencies, system obsolescence, and security vulnerabilities. RCSD, established in 1952, manages water and wastewater services for 35,000 residents in Riverside County, California. This assessment underscores the critical state of RCSD's SCADA, automation, and communication systems, providing a roadmap for transformation.

### Key Findings:

- **System Architecture:** The existing SCADA system is disjointed, with components from various vendors leading to a lack of unified control and data analysis capabilities. This results in operational inefficiencies, increased maintenance costs, and delayed responses to system issues.
- **Hardware and Software:** Much of the infrastructure, including Programmable Logic Controllers (PLCs) and Human-Machine Interfaces (HMIs), is outdated (e.g., Rockwell MicroLogix 1000, SLC 500), no longer supported by manufacturers, posing significant security risks and complicating maintenance. The current SCADA software, RSVIEW32, lacks modern functionalities for supervisory control.
- **Communication Infrastructure:** The use of old Esteem serial-based radios for communication is inadequate for today's data-intensive requirements. Coupled with poor documentation, this setup hampers effective system management and troubleshooting.
- **Cybersecurity:** The absence of basic cybersecurity measures leaves RCSD exposed to cyber threats. There are no systems for threat detection, remote access policies, or asset management, making the infrastructure highly susceptible to attacks.
- **Operational Challenges:** Operators are limited in remote monitoring and control capabilities, increasing labor costs and response times to system anomalies. The alarm system is unreliable and lacks integration with the SCADA system, further jeopardizing operational responsiveness.

### Recommendations:

#### • Immediate Actions:

- Secure remote access implementation for key facilities to allow for timely response to water quality events.
- Plan for a modern communication infrastructure with fiber-optics and redundant radio links to enhance data transfer reliability.
- Begin strategic planning for system standardization and phased hardware/software upgrades, prioritizing high-risk areas.





- **Long-Term Strategy:**

- Overhaul and standardize the entire SCADA and PLC systems to ensure compatibility, support, and future scalability.
- Establish a centralized SCADA architecture for unified system oversight, improving efficiency and decision-making.
- Expand SCADA functionalities to include advanced analytics, security enhancements like CCTV, and smart water management.
- Implement lifecycle management and robust disaster recovery plans to maintain system health and operational continuity.

**Financial Implications:**

- **Immediate Costs:** Estimated at \$48,500 to \$95,500 for initial planning, setup, and remote access solutions.

- **Long-Term Costs:** Projected between \$1.4 million and \$2.2 million for comprehensive system upgrades, new installations, and ongoing training.

**Conclusion:** This assessment highlights the urgent need for RCSD to modernize its SCADA system to achieve operational excellence, secure infrastructure, and ensure compliance with evolving regulatory standards. Implementing these recommendations will not only address current gaps but also prepare RCSD for future challenges and opportunities in utility management.



## INTRODUCTION

### CLIENT BACKGROUND

Established on December 2, 1952, the Rubidoux Community Services District (RCSD) is a public agency based in Riverside County, Southern California. It provides essential services to a local residential population of 35,000. Primarily focused on Water Supply and Distribution, and Wastewater Collection, RCSD also provides trash collection, street lighting, and weed abatement services.

RCSD manages the production and distribution of potable water, serving residential, commercial, and public sectors within its jurisdiction. The district operates wells, reservoirs, and pipelines to deliver reliable water service to the community.

RCSD wastewater collection for its customers. Through the operation of various lift stations throughout the community, as well as the management of an underground piping system, RCSD collects and moves untreated sewage to the City of Riverside's Regional Wastewater Treatment Facility.

As a public utility, Rubidoux Community Services District emphasizes water quality, regulatory compliance, and system reliability to serve its customers effectively. The district faces challenges like many California water utilities, such as water resource management, aging infrastructure, and ensuring safe, continuous operation amid environmental regulations and resource constraints.

### PROJECT BACKGROUND

Like many utilities, (RCSD) faces the challenge of delivering essential services with aging infrastructure. Limited visibility and operational control over RCSD's potable water and wastewater systems have hindered staff's ability to efficiently monitor and manage the network. These limitations have led to operational challenges, decreased staff efficiency, and frequent overtime to maintain service levels.

Maintaining the current infrastructure has proven increasingly difficult, particularly as much of the existing SCADA, automation, and communication equipment has become obsolete. This has created challenges in sourcing replacement parts from authorized vendors, forcing RCSD to rely on third-party suppliers and raising security concerns around the integrity of these components.

To address these issues, RCSD engaged Stellar Technology & Automation (S-TEKK), a local controls engineering firm, to conduct a thorough assessment of their SCADA, automation, and communication systems across their potable water and wastewater infrastructure. This comprehensive evaluation aims to provide RCSD with a strategic roadmap for modernizing their systems, improving operational visibility, and aligning with the latest standards in control and communication technology.

S-TEKK will leverage the most current industry standards to bring enhanced security, visibility, and efficiency to RCSD's SCADA and communication systems, ensuring robust and reliable operations for the future.

### ASSESSMENT PROCESS

The assessment process for RCSD's SCADA, automation, and communication systems was structured into three distinct phases to ensure a thorough and actionable evaluation. Each phase was designed to gather detailed information, engage key stakeholders, and develop a comprehensive roadmap for modernization.

#### Phase I: Introductory Phase

The assessment began with an introductory meeting with RCSD operational staff. This phase was crucial for understanding the organizational culture and the staff's relationship with the SCADA system. Discussions centered on the history of maintenance practices, responses to system failures, and the overall operability of existing infrastructure. The meeting also provided insights into the district's vision for future SCADA needs and improvements. Key personnel and vendors involved in the operation and maintenance of RCSD's systems were identified, establishing a foundation for collaboration and data gathering in subsequent phases.

#### Phase II: Site Visits and Data Collection

Site visits were conducted with RCSD's most senior operator to evaluate each location's SCADA and communication infrastructure. During these visits:

- Reference photos were captured to document the existing hardware, system architecture, and layout.
- System processes were analyzed, and an inventory of hardware and components was created to assess their current condition and operability.

This phase ensured that all relevant physical and operational data were systematically collected to support informed recommendations.

#### Phase III: Data Analysis and Report Compilation

Collected data were compiled and analyzed to assess system obsolescence and identify gaps in functionality and reliability. A product life cycle analysis was performed, providing a detailed justification for upgrading obsolete systems and prioritizing future hardware procurement. Budget recommendations were developed as Class 5 estimates according to the AACE International Cost Estimate Classification System, which are suitable for preliminary evaluations with an accuracy range of -50% to +100%.

For SCADA and operator interface enhancements, the following standards were referenced:

ISA-18.2: Addressing alarm management through standardization and rationalization to improve usability and reliability.

ISA-101: Guiding the design of high-performance graphics to enhance situational awareness, reduce operator errors, and improve operational efficiency.



### SCADA SYSTEM ARCHITECTURE

The Rubidoux Community Services District's (RCSD) SCADA system spans across 2 water treatment plants, 6 potable well sites, 5 reservoirs, 3 booster stations, and 7 sewage lift stations. While this infrastructure serves critical water and wastewater operations, the current SCADA system lacks cohesion and fails to meet the foundational principles of a modern supervisory control and data acquisition (SCADA) system.

The current architecture is fragmented, comprising components from multiple vendors, which creates significant operational and maintenance challenges. The system lacks several key functionalities:

- **Supervisory Control:** Operators are unable to exercise control remotely or centrally across sites, necessitating physical visits for adjustments and interventions.
- **Data Collection and Analysis:** The system does not provide robust data metrics, historical trends, or analytical tools that modern water utilities require for proactive decision-making and operational optimization.
- **Reliable Alarm Integration:** Alarms are managed through third-party systems (Samsara and Sensaphone 800), which have been unreliable and unpredictable. Operators cannot configure or control alarms effectively, compromising responsiveness to critical water quality events.

### PLC Infrastructure

Programmable Logic Controllers (PLCs) are the backbone of any automated site within a SCADA system, handling data collection, site functionality, and seamless integration into the broader supervisory framework. However, with the exception of one subsystem at the Leland Water Treatment Facility, all PLCs in RCSD's SCADA system are obsolete.

- **Obsolescence:** The PLC infrastructure includes legacy controllers such as Rockwell MicroLogix 1000, SLC 500 and PLC5, which range from 10 to 20 plus years old. All are no longer supported by their manufacturers, and lack access to spare parts from official channels. This forces RCSD to rely on non-secure third-party vendors, such as eBay, to source replacements. This approach introduces significant cybersecurity risks, as the authenticity and reliability of such components cannot be guaranteed.
- **Operational Impacts:** The outdated PLCs are incapable of supporting modern SCADA functionalities, such as advanced data analytics, environmental monitoring, or energy usage tracking. Without these capabilities, RCSD cannot optimize its operations or meet evolving regulatory requirements.

### Operator Interface Software

Currently, RCSD does not have a standardized operational software platform deployed across its facilities. This lack of uniformity significantly hinders operational efficiency and system-wide oversight.

- **Outdated Software:** At the Anita Smith Water Treatment Plant and RCSD Headquarters, the existing software is Rockwell RSView 32, which is both outdated and incapable of providing supervisory control. The software's limitations prevent centralized monitoring or system-wide visualization, making it challenging for operators to manage operations efficiently.

- **Local Operational Interface Terminals (OITs):** Some sites are equipped with local OITs for on-site visualization. These terminals are a mix of Automation Direct and Rockwell PanelView 1000 devices, both of which are obsolete and no longer supported by their respective manufacturers.

- **Lack of Integration:** The existing OITs are not standardized across sites and do not integrate into the broader SCADA architecture. As a result, they fail to contribute to system-wide visualization, centralized data collection, or supervisory control. Operators must rely on limited and localized displays, which do not provide comprehensive insights into system performance or conditions.

- **No Data Visualization:** The current human-machine interfaces (HMIs) lack the ability to present critical operational data or historical trends. This omission limits RCSD's ability to analyze performance metrics, identify inefficiencies, or proactively address potential issues.

Transitioning to a uniform and modern HMI software solution is critical for enabling centralized system visualization, improving operational control, and enhancing decision-making capabilities. A consistent platform would allow operators to monitor and manage the entire SCADA system from a centralized location, fostering greater efficiency, reliability, and responsiveness.

### **Impact Of Deployment Method**

The current deployment approach further exacerbates operational inefficiencies. Without centralized supervisory control, operators must physically visit sites to address issues, increasing overtime costs and delaying responses to critical events. This lack of remote access poses a risk to public health and safety by potentially compromising drinking water quality during emergencies.

Modern SCADA systems enable utilities to remotely monitor and control processes, enhancing efficiency and response times. RCSD's inability to exercise such control places unnecessary strain on resources and increases operational vulnerabilities.

### **Alarming System Limitations**

Alarming is a critical feature of any SCADA system, providing operators with timely warnings about system events and water quality issues. However, RCSD's current alarming approach, which relies on Samsara and Sensaphone 800, is inadequate:

- **Unpredictability:** Alarms often fail to reach the intended operators reliably, creating gaps in system oversight.



- **Limited Control:** Operators lack the ability to customize alarm settings or determine escalation protocols, reducing flexibility in handling events and impacting compliance with regulatory standards.
- **Operational Risk:** The inability to depend on alarms for real-time event notifications increases response times, potentially compromising water quality and system reliability.

A modern alarm system should provide centralized control, customization options, and seamless integration into the SCADA architecture, enabling operators to manage events effectively and maintain compliance.

### **System Cohesion**

The existing SCADA system suffers from a lack of integration and cohesion across sites. Each component operates in isolation, preventing seamless data sharing, system-wide analysis, and centralized control.

- **Vendor Fragmentation:** The use of multiple vendor systems without integration creates silos, where components do not communicate effectively. This not only limits visibility but also complicates maintenance and troubleshooting efforts. The lack of standardization means that technicians must be familiar with multiple, often outdated systems, which increases the difficulty and time required for system repairs.

- **Missed Opportunities for Synergy:** A cohesive SCADA system allows subsystems—such as water treatment, reservoir management, and sewage lift stations—to function as interconnected components of a larger network. RCSD’s current system operates as independent units, preventing operators from leveraging shared data to optimize operations or predict system-wide issues.

- **Impact on Training:** The fragmented nature of the system also complicates personnel training. Operators and technicians must learn to navigate multiple platforms and equipment from different vendors, which leads to inefficiencies and increases the likelihood of human error. A unified system would streamline training, enabling personnel to become proficient more quickly and confidently.

- **Centralized Operations:** A cohesive architecture provides a unified interface for monitoring and control, enabling operators to oversee all sites from a central location. RCSD’s system lacks this capability, resulting in inefficiencies, increased costs, and greater risks during emergencies.

Transitioning to a cohesive SCADA system would enable RCSD to integrate its water and wastewater infrastructure, creating a unified network that enhances operational visibility, efficiency, and reliability. This transition is critical to achieving the full potential of modern SCADA technologies while improving system maintainability and easing the training process for personnel.

## COMMUNICATION INFRASTRUCTURE

The current communication infrastructure at RCSD is not well-documented, which poses significant challenges to understanding, maintaining, and upgrading the system. Conversations with operators revealed that they also lack detailed knowledge about how individual sites communicate with each other and the main office. This lack of clarity regarding the communication pathways creates operational blind spots and limits the ability to troubleshoot and optimize the system.

- **Current Radios:** RCSD currently uses Esteem serial-based radios, which were widely deployed across public utilities over 20 years ago. While reliable in their prime, these radios are now outdated and unable to meet the demands of modern SCADA systems. Serial communication, as a physical medium, is obsolete and insufficient for handling the data requirements of advanced SCADA applications.

- **Recommendations for Physical Mediums:** Transitioning to physical Ethernet or fiber optic communication is essential for improving reliability, security, and scalability. These modern communication mediums support advanced, secure protocols such as OPC UA, which enhance data integrity and interoperability across the SCADA environment. Upgrading the communication infrastructure will also enable RCSD to incorporate advanced SCADA functionalities, such as remote site access control, CCTV systems, and predictive analytics.

- **Opportunities for Improvement:** RCSD is well-positioned to modernize its communication infrastructure. The district has access to numerous high points—such as reservoirs and elevated sites—which are ideal for establishing reliable radio or wireless communication networks. Additionally, being located in a city environment provides access to telecommunications mediums such as fiber optic connections from telco providers. Leveraging these resources can significantly improve system-wide connectivity and data transmission capabilities.

- **Benefits of a Modern Communication Infrastructure:** A properly designed communication network is the foundation of a cohesive and reliable SCADA system. By adopting modern communication mediums and leveraging available infrastructure, RCSD can achieve the following:

- **Increased Reliability:** Minimized downtime and reduced risk of communication failures.
- **Enhanced Security:** Support for secure communication protocols that protect against cyber threats.
- **Scalability:** Ability to support future technologies, expansions, and additional SCADA functionalities.
- **Operational Efficiency:** Improved data flow and integration, enabling better decision-making and faster responses to system events.

Upgrading RCSD's communication infrastructure is critical to ensuring a robust, secure, and future-proof SCADA system that meets the operational and regulatory demands of modern utilities.



## CYBERSECURITY AND COMPLIANCE

Currently, RCSD's SCADA system lacks any form of cybersecurity measures, leaving the district highly vulnerable to potential cyberattacks. The absence of fundamental protections creates significant risks to the integrity, availability, and security of critical water and wastewater infrastructure.

- **Lack of Threat Detection:** There is no threat detection system in place to monitor or alert operators to potential cyber intrusions or anomalies in the system. This absence means that malicious activity could go undetected until it causes significant operational disruptions or compromises public safety.
- **No Remote Access Policy:** Remote access, a standard feature in modern SCADA systems, is currently non-existent at RCSD. Equally concerning, there is no remote access policy to regulate or secure such connections, should they be implemented in the future. Without a defined policy, any attempts to enable remote access would expose the system to even greater risks, including unauthorized access and data breaches.
- **Asset Discovery and Management:** There is no system or policy in place for asset discovery and management, leaving RCSD blind to the full scope of its connected devices and equipment. This lack of visibility hampers the ability to assess vulnerabilities, ensure proper updates, or respond effectively to security incidents.
- **System Vulnerabilities:** The combination of outdated hardware, obsolete software, and fragmented architecture exacerbates the cybersecurity risks. Without secure protocols, network segmentation, or intrusion prevention measures, the SCADA system is exposed to a range of potential attacks, including ransomware, denial-of-service (DoS) attacks, and unauthorized data manipulation.
- **Compliance Gaps:** RCSD does not currently adhere to any industry-standard cybersecurity frameworks, such as those outlined by the NIST Cybersecurity Framework (CSF) or American Water Works Association (AWWA) Cybersecurity Guidance. Non-compliance not only increases the risk of attacks but may also result in regulatory penalties or loss of public trust in the event of a breach.

Upgrading RCSD's cybersecurity posture is not just a technical necessity but a critical safeguard for public health, operational reliability, and regulatory compliance. In the face of increasing cyber threats, taking proactive measures will significantly reduce vulnerabilities and ensure the resilience of RCSD's future SCADA system.



### ANALYSIS OVERVIEW

The gap analysis evaluates RCSD's existing Programmable Logic Controller (PLC) and Supervisory Control and Data Acquisition (SCADA) systems against modern industry standards and best practices. Key focus areas include hardware, software, integration, and functionality. Below is a breakdown of the identified gaps.

#### 1. Hardware Obsolescence

- **Current State:**
  - RCSD's PLCs primarily consist of Rockwell MicroLogix 1000 and SLC 500 controllers, which are over 20 years old. These systems are no longer supported by the manufacturer and have limited availability of spare parts.
  - Operators rely on third-party sources such as eBay to procure components, posing significant risks to security, reliability, and operational continuity.
  - Many sites lack redundant PLC hardware, increasing the risk of system downtime during failures.
- **Gap:**
  - Modern PLC systems (e.g., Allen-Bradley CompactLogix or Siemens S7) offer higher processing power, native support for Ethernet communication, and compatibility with modern SCADA protocols like OPC UA.
  - Lack of vendor support limits access to firmware updates, security patches, and technical assistance.
- **Impact:**
  - Increased maintenance challenges and extended downtime during failures.
  - Potential security vulnerabilities due to reliance on unsupported hardware and unverified third-party components.

#### 2. SCADA Software Deficiencies

- **Current State:**
  - SCADA software at RCSD includes outdated Rockwell RSView32, which lacks supervisory control capabilities.
  - Site-specific Operator Interface Terminals (OITs), such as Automation Direct panels and Rockwell PanelView 1000, are also obsolete and do not integrate with the overall SCADA system.

- No centralized data collection or analysis capabilities exist.
- **Gap:**
  - Modern SCADA systems (e.g., Rockwell FactoryTalk View or Ignition by Inductive Automation) offer high-performance graphics, advanced alarming capabilities, and centralized dashboards for supervisory control.
  - Inability to unify site operations hinders data-driven decision-making and predictive maintenance.
- **Impact:**
  - Reduced situational awareness for operators.
  - Limited ability to track trends or analyze historical data, which is crucial for optimizing operations and ensuring regulatory compliance.

### 3. Communication Protocol and Integration

- **Current State:**
  - The existing PLCs rely on serial communication, which is a dated and inefficient protocol for modern SCADA systems.
  - Lack of standardization across communication protocols leads to integration challenges.
  - No network segmentation or security measures are in place, exposing the system to potential cyber threats.
- **Gap:**
  - Transition to Ethernet/IP or fiber-optic communication is required for higher bandwidth, scalability, and support for advanced security protocols like OPC UA.
  - Standardization across protocols (e.g., Modbus TCP/IP) would simplify integration and improve system interoperability.
- **Impact:**
  - Increased difficulty in integrating new components or expanding the system.
  - Potential for communication bottlenecks and cybersecurity vulnerabilities.



#### 4. Operational Challenges

- **Current State:**
  - Operators lack the ability to exercise supervisory control remotely, increasing reliance on physical site visits for manual interventions.
  - Many control processes are not optimized, increasing operational costs, and reducing overall reliability and responsiveness to system demands.
  - The absence of a standardized alarm system leaves operators unable to effectively monitor or respond to critical system events.
- **Gap:**
  - Modern SCADA systems enable remote supervisory control and advanced alarming functions that notify operators of issues in real-time via customizable methods (e.g., SMS, email).
  - ISA-18.2-compliant alarming systems would standardize alerts and reduce operator fatigue caused by unnecessary alarms.
- **Impact:**
  - Increased operational inefficiencies and extended response times during critical events.
  - Higher labor costs and reduced system reliability.

#### Summary of Gaps

Category	Current State	Gap	Impact
Hardware	Obsolete PLCs (MicroLogix 1000, SLC 500)	Upgrade to modern PLCs with Ethernet/IP support	Increased downtime, security risks, and maintenance challenges
Software	Outdated RSVIEW32 and OITs	Implement centralized SCADA software with advanced capabilities	Limited visibility, reduced situational awareness, and inability to perform advanced
Communication	Serial communication	Transition to Ethernet or fiber and standardize protocols	Poor integration, security vulnerabilities, and limited scalability
Operations	No remote control or standardized alarms	Enable remote supervisory control and adopt ISA-compliant alarm systems	Increased labor costs, slower response times, and reduced operational efficiency

## RISK SCORE ANALYSIS OVERVIEW

The 2013 Mitch Owens Risk-Based Prioritization Method was used to evaluate each site's SCADA and PLC systems, assigning risk scores from 0 to 100, with 100 indicating the highest risk. Factors such as hardware obsolescence, operational importance, cybersecurity vulnerabilities, and failure consequences were assessed to prioritize necessary upgrades and remediation efforts effectively.

Sites	PLC Supported?	HMI Supported?	OS Upgrade Supported?	Equip. Condition	Failure Conseq.	Risk Score
<b>Treatment</b>						
Leland WTF	NO	NO	NO	3	3	<b>36</b>
Smith WTF	NO	NO	NO	5	5	<b>100</b>
<b>Wells</b>						
Well 1A	NO	NO	NO	5	3	<b>60</b>
Well 2	YES	YES	NO	1	2	<b>4</b>
Well 4	NO	NO	NO	5	5	<b>100</b>
Well 6	NO	NO	NO	5	5	<b>100</b>
Well 8	NO	NO	NO	5	3	<b>60</b>
Well 18	NO	NO	NO	5	3	<b>60</b>
<b>Reservoirs</b>						
Atkinson	NO	NO	NO	5	3	<b>60</b>
Watson	NO	NO	NO	5	3	<b>60</b>
Perone	NO	NO	NO	5	3	<b>60</b>
Hunter 1	NO	NO	NO	5	3	<b>60</b>
Hunter 2	NO	NO	NO	5	3	<b>60</b>
<b>Boosters</b>						
Mission	NO	NO	NO	5	5	<b>100</b>
Gold West	NO	NO	NO	5	5	<b>100</b>
Ridgeline	NO	NO	NO	5	5	<b>100</b>
<b>Lift Stations</b>						
Regional	NO	NO	NO	5	5	<b>100</b>
Juan Diaz	NO	NO	NO	5	5	<b>100</b>
Belltown	NO	NO	NO	5	5	<b>100</b>
Exmoor	NO	NO	NO	5	5	<b>100</b>
Fleetwood	NO	NO	NO	5	5	<b>100</b>
Jurupa	NO	NO	NO	5	5	<b>100</b>
Riverside	NO	NO	NO	5	5	<b>100</b>



## NEXT ACTION STEPS

### IMMEDIATE RECOMMENDATIONS

To address immediate vulnerabilities and improve operational efficiency, the following short-term actions are recommended:

#### 1. Secure Remote Access Implementation

Establish a secure remote access solution for the Anita Smith Water Treatment Facility (WTF) and the Leland Thompson Water Treatment Facility.

- Acquiring Internet Connections: Ensure reliable and secure internet service at both sites.
- IT Infrastructure Deployment: Install essential hardware such as network switches and firewalls to safeguard against unauthorized access.
- Interim Remote Access Solution: Utilize TeamViewer as a temporary remote access tool to enable operators to respond rapidly to water quality events.
- Ensure TeamViewer is configured with strong security measures, including two-factor authentication (2FA).

#### 2. Initiate Planning for Modernized Communication Infrastructure

Begin designing a robust communication system with fiber-optic and redundant radio links. This infrastructure is the backbone of a high-performance SCADA system, enabling secure, fast, and reliable data transfer across all facilities. This step is crucial for laying the foundation for future SCADA improvements.

- Begin mapping out a new communications system design that includes fiber-optic links for primary connectivity and radio links for redundancy.
- Conduct a site survey to identify high points and other optimal locations for radio communication equipment to ensure coverage and reliability.
- Develop a phased implementation plan that integrates with your existing SCADA system while minimizing operational disruptions.

#### 3. Initiate Planning for Full System Overhaul and Standardization

Modernizing the SCADA and PLC systems is essential for enhancing system reliability, operational control, and cybersecurity. This recommendation involves a step-by-step approach to upgrading each site's systems, ensuring compatibility, and addressing immediate and future needs.

- Work with Operators to Discuss Immediate and Future Needs and Create a Process Diagram:

- Begin by collaborating with operators to gather input on current system challenges and future requirements, ensuring the upgrade aligns with operational goals.
- After meeting with operators, create a process diagram to visually map out workflows, system interactions, and key operational requirements. This diagram will help guide the design and planning of system upgrades.
- Take IO Count of Each Site:
  - Assess the Input/Output (IO) count at each site to determine the required system capacity and plan for future scalability.
- Develop Vendor Standard:
  - Establish a standardized vendor selection process to ensure compatibility, reliability, and support for all components across the system.
- Develop Control Drawings for Control Panels:
  - Create detailed control panel drawings for each site, standardizing and documenting the required upgrades and ensuring uniformity across locations.
- Develop a Bill of Materials for Each Location:
  - Compile a comprehensive list of required components and equipment for each site, streamlining procurement and ensuring that the necessary materials are available for each upgrade.
- Develop Upgrade Strategy Based on Highest Risk:
  - Prioritize upgrades based on the site-specific risk assessment, addressing the most critical and obsolete systems first to improve overall system reliability and security.

#### **4. Initiate Planning for Centralized SCADA Architecture**

A centralized SCADA architecture will enhance operational efficiency by enabling remote monitoring and control from a central location. This upgrade will integrate all sites into a unified platform, improve data visibility, and streamline maintenance, while also supporting standardized user interfaces and operational workflows.

- Define SCADA System Requirements:
  - Collaborate with operators and stakeholders to establish clear requirements for the centralized SCADA system.
- Develop Vendor Standard for SCADA Components:



- Create a standardized vendor selection process to ensure all components of the SCADA system are compatible and supported, reducing the risk of system fragmentation and improving long-term maintainability.
- Develop Control Drawings and Diagrams:
  - Develop detailed control drawings and system architecture diagrams to outline the communication paths, control panels, and integration points across all sites. This ensures a coherent design for centralized operations.
- Develop Mock SCADA Screens with Operator Input:
  - Design and present mock SCADA screens to operators, allowing them to provide feedback on the layout, data visualization, and overall user interface. This ensures the final SCADA system will meet operational needs and improve user experience.
- Develop Standardized Templates for the Look and Feel of SCADA Screens:
  - Create standardized templates for the SCADA interface, ensuring consistency in appearance, data visualization, and operator interactions across all sites. This will help minimize confusion and improve operational efficiency.
- Integrate Each Site into the SCADA System:
  - Gradually integrate each site's automation system into the centralized SCADA system. This will involve ensuring seamless data transfer and system-wide connectivity between all sites, while maintaining secure communication protocols.
- Test and Validate System Integration:
  - Perform rigorous testing to ensure that all sites are properly integrated, data flows accurately, and all systems are functioning as intended. Address any issues identified during the testing phase.
- Train Operators on the New System:
  - Provide comprehensive training for operators on the new centralized SCADA system, ensuring they are familiar with the interface, functionality, and troubleshooting procedures.
- Develop a Long-Term Support and Maintenance Plan:
  - Create a detailed support and maintenance plan, including regular system updates, operator training sessions, and troubleshooting procedures.



## **LONG-TERM RECOMMENDATIONS**

To ensure the sustainability, reliability, and security of RCSD's SCADA and PLC systems, the following long-term actions are recommended.

### **1. Implementation of Full System Overhaul and Standardization**

- Implement Phased PLC Modernization: Execute the planned strategy, prioritizing high-risk sites for immediate upgrades.
- Build Control Panels: Construct and install standardized control panels at each site as per developed designs.
- Program PLCs: Configure and program all PLCs following the approved process diagrams for each facility.
- Site-by-Site Execution: Modernize and standardize systems systematically, completing upgrades at one site before moving to the next.

### **2. Implementation of Centralized SCADA Architecture**

- Deploy high-performance servers to host the centralized SCADA system, ensuring redundancy and scalability.
- Build and implement operator interface screens based off of planning phase, tailored to the processes and controls at each location.
- Integrate all site screens and data into a unified, centralized SCADA platform for system-wide monitoring and control.
- Configure backup systems and implement cybersecurity measures to protect the centralized SCADA environment.
- Train staff on the new SCADA system, ensuring seamless adoption and effective operation.

### **3. Implementation of Modernized Communication Infrastructure**

- Deploy fiber-optic or Ethernet connections at critical locations, as determined during the planning phase, to ensure high-speed and secure communication.
- Set up network switches, routers, and firewalls at designated sites based on the planned architecture to support modern communication needs.
- Install radios as either primary or backup communication links, depending on the site requirements and redundancy strategy outlined in the planning phase.

#### **4. Operator Training and Knowledge Retention**

- Develop a standardized training program to ensure all operators are proficient in the new SCADA system and its capabilities.
- Document procedures and maintain a knowledge base to mitigate risks associated with staff turnover.
- Professional and Technological Training for operators and maintenance personnel in the maintenance and troubleshooting of SCADA & PLC systems.

#### **5. Expand SCADA Control Functionality**

- Introduce capabilities like site access control, CCTV security integration, and advanced weather monitoring to enhance operational security and situational awareness.
- Explore options for integrating smart water management technologies to improve efficiency and resource utilization.
- Optimize control processes to improve system efficiency, reduce operational costs, and enhance reliability and responsiveness to system demands.

#### **6. Advanced Data Analytics and Reporting**

- Implement advanced SCADA tools to collect and analyze data such as energy consumption, operational metrics, and environmental conditions.
- Automate regulatory compliance reporting to streamline submissions and ensure accuracy.

#### **7. Lifecycle Management Program**

- Establish a lifecycle management program to plan proactive upgrades and replacements of hardware and software, ensuring system sustainability and reducing the risk of obsolescence.

#### **8. Disaster Recovery and Business Continuity Planning**

- Design and implement a disaster recovery plan that includes regular data backups, redundant systems, and failover protocols.
- Test and refine recovery procedures to ensure operational continuity during emergencies.

## FINANCIAL IMPACT AND BUDGET

### FINANCIAL IMPACT AND BUDGET

This section outlines the anticipated financial impact of implementing the next action steps. Costs are divided into immediate and long-term expenditures, including a breakdown by category, such as hardware, software, labor, and training. Class 5 budgetary estimates (-50% to +100% accuracy) are used, following the AACE International Cost Estimate Classification System.

#### Immediate Recommendations

##### 1. Secure Remote Access Setup

- Internet setup and hardware for Leland and Smith WTF (firewalls, network switches): **\$10,000–\$20,000**
- Licensing fees for TeamViewer (short-term): **\$500/year**

##### 2. Planning for Modernized Communication Infrastructure

- Initial site surveys, design, and mapping: **\$7,500–\$18,000**

##### 3. Planning for Full System Overhaul and Standardization

- Meetings with operators to gather requirements and define future stem goals. Development of a vendor standard and preliminary process diagrams: **\$12,500–\$20,500**

##### 4. Planning for Centralized SCADA Architecture

- Operator interviews and mock SCADA screen development Standardized SCADA templates and architecture design: **\$18,500–\$32,000**

**Total Immediate Costs Estimate: \$48,500–\$95,500**



## Long-Term Recommendations

### 1. Implementation of Full System Overhaul and Standardization

- Modernize PLCs based on phased strategy, focusing on high-risk sites first. Build and install control panels for each site. Program and commission PLCs per site based on process diagrams: **\$750k–\$1.1M**

### 2. Implementation of Centralized SCADA Architecture

- Install new SCADA servers and software. Develop and implement SCADA screens for each site and the centralized system. Perform integration and testing to unify site operations: **\$270k–\$350k**

### 3. Implementation of Modernized Communication Infrastructure

- Install fiber optic and/or Ethernet connections based on the planning phase. Install network hardware where needed. Deploy radios as either primary or redundant forms of communication: **\$150k–\$250k**

### 4. Operator Training and Knowledge Retention

- Conduct SCADA and PLC training for operational staff. Implement a knowledge retention system for ongoing use. Operator training (annual): **\$5,000–\$10,000/year**

### 5. Expand SCADA Control Functionality

- Add features such as site access controls and CCTV integration. Integrate additional system functionality to enhance operational capabilities and optimize processes: **\$150k–\$250k**

### 6. Advanced Data Analytics and Reporting

- Deploy an advanced analytics platform and software licenses. Configure data collection and reporting capabilities. Develop visualization tools to support real-time and historical analysis: **\$80,000–\$125k**

### 7. Lifecycle Management Program

- Implement an asset management system for all infrastructure. Develop lifecycle planning tools and resources. Establish ongoing maintenance and monitoring processes: **\$40,000–\$70,000**

### 8. Disaster Recovery and Business Continuity Planning

- Install backup servers and storage solutions. Develop failover systems for redundancy. Create and train staff on disaster recovery and continuity policies: **\$25,000–\$50,000 Total**

**Total Long-Term Costs Estimate: \$1.4M –\$2.2M**

## CONCLUSION

The comprehensive SCADA assessment and planning initiative undertaken for RCSD highlights the critical need to modernize its aging infrastructure and communication systems. The current state of the SCADA system—characterized by obsolete components, lack of cohesion, and inadequate cybersecurity measures—poses significant risks to operational efficiency, system reliability, and public safety.

Through detailed analysis and a structured approach, a roadmap has been developed to address these challenges with both immediate and long-term recommendations. These steps include securing immediate operational improvements, modernizing communication and control systems, centralizing SCADA architecture, and integrating advanced analytics to optimize performance. The phased implementation strategy ensures a balanced allocation of resources while prioritizing high-risk areas.

By executing this plan, RCSD will transition to a modern, robust, and secure SCADA system that supports efficient operations, regulatory compliance, and future growth. This project not only provides a path to address current deficiencies but also sets the foundation for a sustainable, innovative future that meets the evolving needs of the district and its stakeholders.



**APPENDICES**

**SYSTEM INVENTORY**

Sites	Control System	Discontinued?	HMI System	Discontinued?
<b>Treatment</b>				
<b>Leland WTF &amp; Sub Systems</b>	ControlLogix 1756-L62	YES	PanelView 6 Plus	YES
PFAS System	CompactLogix 1769-L33ER	NO	Automation Direct EA9-T15CL-R	NO
Chemical System	Rockwell SLC 505	YES	PanelView 6 Plus	YES
<b>Smith WTF</b>	Rockwell PLC 5/20	YES	RSView 32	YES
<b>Wells</b>				
<b>Well 1A</b>	MicroLogix 1100	YES	PanelView 800 2711R-T4T	NO
<b>Well 2</b>	AUTOMATION DIRECT Productivity 1000	NO	Automation Direct EA9-T15CL-R	NO
<b>Well 4</b>	<i>Located at Smith</i>	-----	-----	-----
<b>Well 6</b>	<i>Located at Smith</i>	-----	-----	-----
<b>Well 8</b>	MicroLogix 1500	YES	PanelView Plus 700	YES
<b>Well 18</b>	<i>Located at Thompson</i>	-----	-----	-----
<b>Reservoirs</b>				
<b>Atkinson</b>	MicroLogix 1000	YES	N/A	-----
<b>Watson</b>	MicroLogix 1000	YES	N/A	-----
<b>Perone</b>	MicroLogix 1000	YES	N/A	-----
<b>Hunter 1</b>	MicroLogix 1000	YES	N/A	-----
<b>Hunter 2</b>	MicroLogix 1000	YES	N/A	-----
<b>Boosters</b>				
<b>Mission</b>	MicroLogix 1500	YES	N/A	-----
<b>Gold West</b>	MicroLogix 1500	YES	N/A	-----
<b>Ridgeline</b>	MicroLogix 1500	YES	N/A	-----
<b>Lift Stations</b>				
<b>Regional</b>	Rockwell SLC 505	YES	PanelView 1000	YES
<b>Juan Diaz</b>	Rockwell SLC 505	YES	PanelView 1000	YES
<b>Belltown</b>	MicroLogix 1500	YES	Automation Direct	YES
<b>Exmoor</b>	MicroLogix 1500	YES	Automation Direct	YES
<b>Fleetwood</b>	MicroLogix 1500	YES	Automation Direct	YES
<b>Jurupa</b>	MicroLogix 1500	YES	Automation Direct	YES
<b>Riverside</b>	MicroLogix 1500	YES	Automation Direct	YES

## SITE PHOTOS

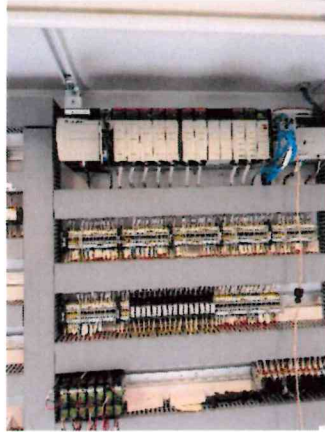


Figure 1 Thompson WTF PLC System 1

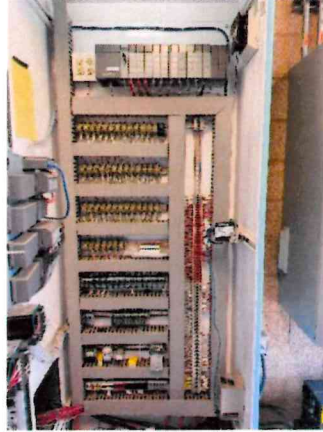


Figure 2 Thompson WTF PLC System 2



Figure 3 Thompson WTF PLC System 3



Figure 4 Thompson WTF Alarm Callout System

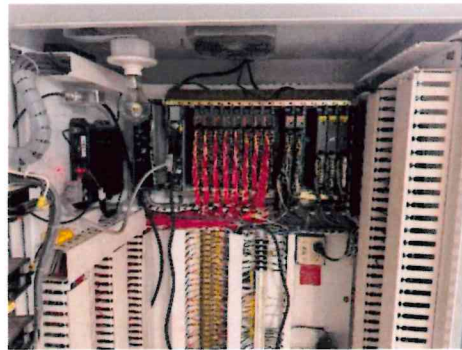


Figure 5 Smith WTF OLD PLC5 System (Installed 1995)

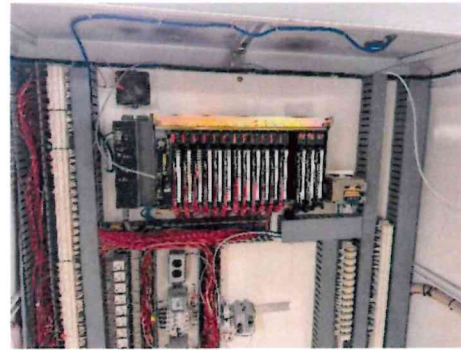


Figure 6 Smith WTF OLD PLC5 Remote IO System (Installed 1995)



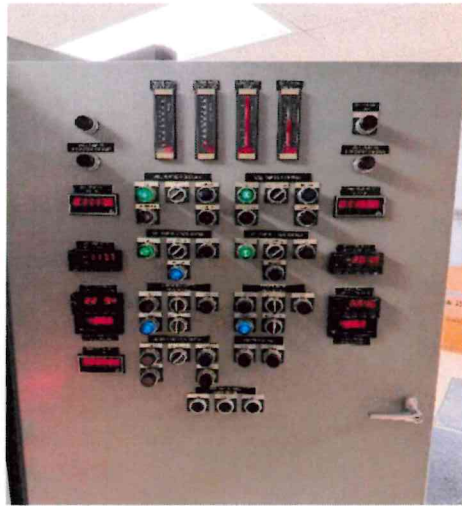


Figure 6 Smith WTF Analog Controls (Installed 1995)



Figure 7 Smith WTF Soft Start System for Booster (Installed 1995)



Figure 7 Main Office obsolete Central PLC System



Figure 8 Main Office obsolete Comm Room, No Documentation or labeling

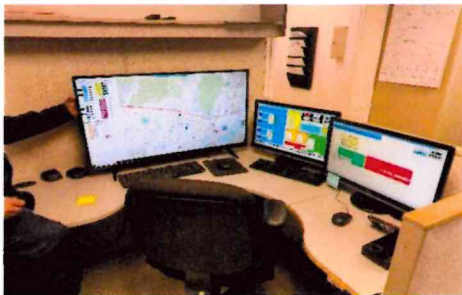


Figure 8 Main Office non-cohesive SCADA system, no operator control allowed

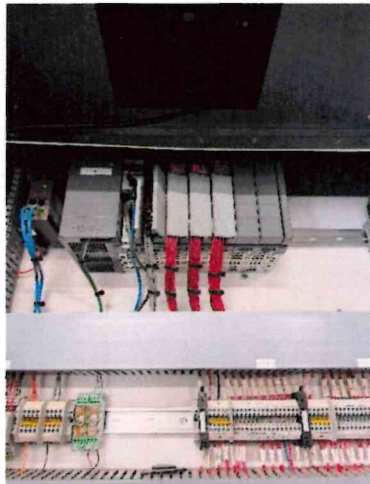


Figure 8 Juan Diaz Lift Station Obsolete SLC 500 PLC System

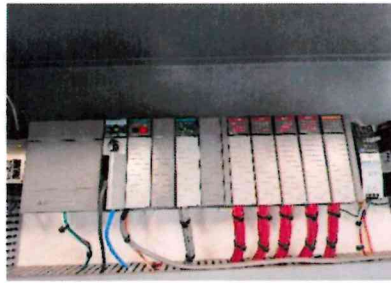


Figure 9 Regional Lift Station Obsolete SLC 500 PLC System



Figure 10 Fleetwood Lift Station Obsolete Micrologix PLC System

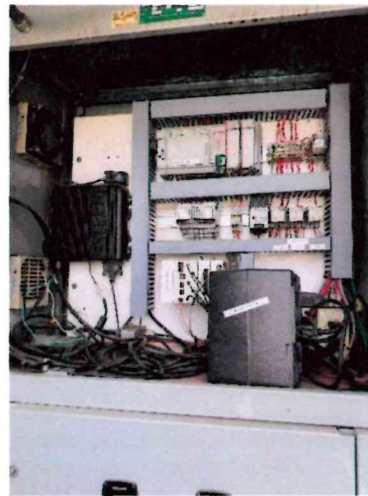


Figure 11 Bell Lift Station Obsolete Micrologix PLC System

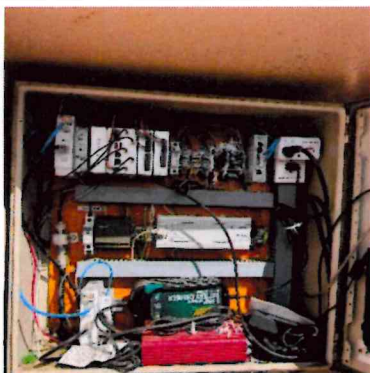


Figure 12 Reservoir Obsolete Micrologix PLC System





Figure 13 Well 1A Obsolete Micrologix PLC System

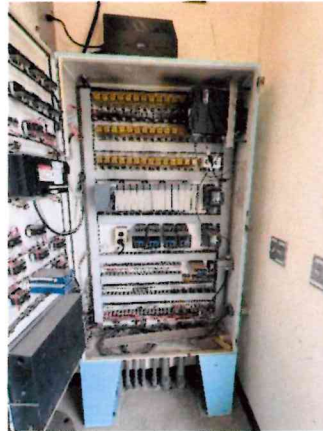


Figure 14 Well 1A Obsolete SLC 500 Unknown Secondary

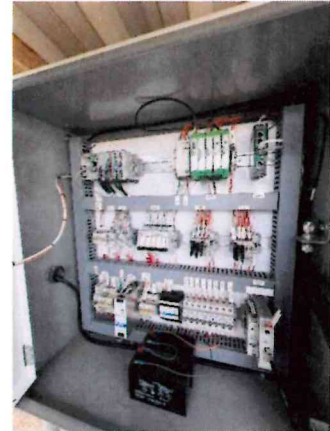


Figure 15 Well 2 Non Cohesive PLC System

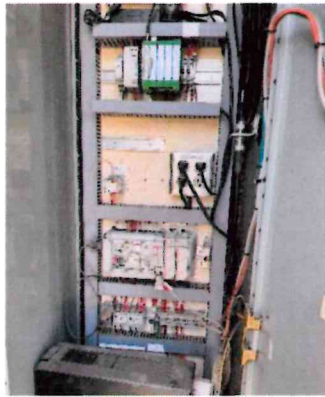


Figure 16 Well 8 Obsolete Micrologix PLC System

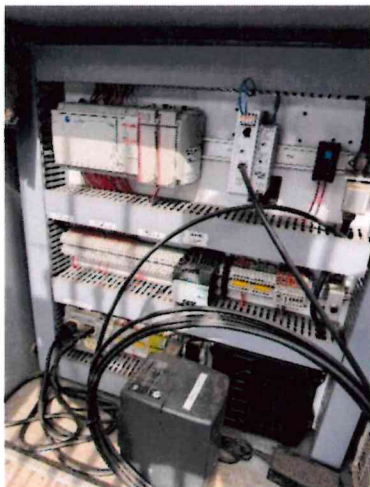


Figure 17 Mission Booster Obsolete Micrologix PLC System

## 2013 MITCH OWENS RISK-BASED PRIORITIZATION METHOD

Risk factor =  $[1+X(HW) + Y(SW) + Z(OS)] * \text{Cond} * \text{Fail}$

Where:

Cond = Equipment conditions (1= New, 5 = Failed)

Fail = Failure consequence (1= None, 5 = Catastrophic)

HW = Hardware is supported (0= Yes, 1= No)

SW = Software is supported (0= Yes, 1= No)

OS = Servers hardware will support OS or HMI version upgrade (0 = Yes, 1 = No)

X, Y and Z are factors that client personnel can assign based on staff abilities, spare parts and concerns.

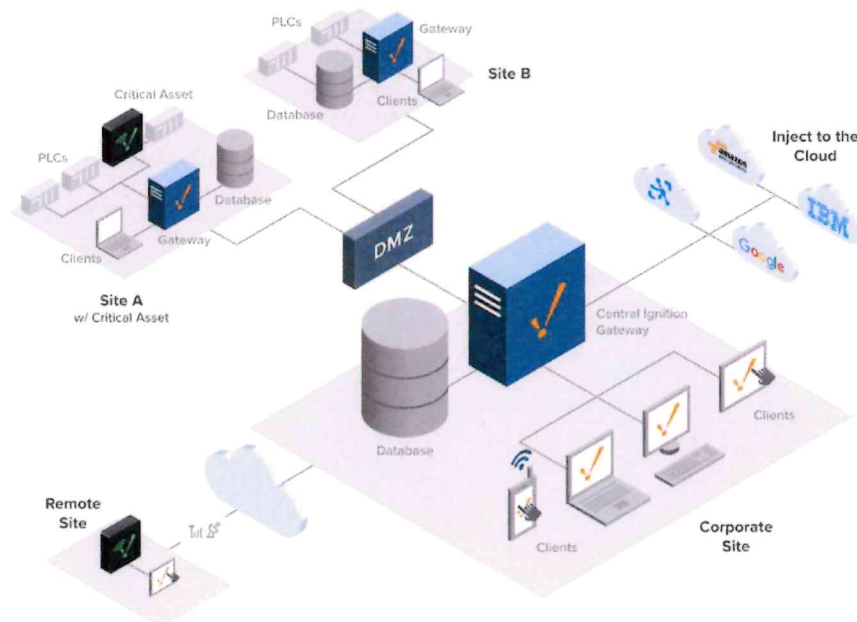
## ADDITIONAL RESOURCES

### IGNITION SCADA ARCHITECTURES

At STELLAR TECHNOLOGY & AUTOMATION, we standardize all our clients on Ignition by Inductive Automation—a robust and versatile platform that forms the foundation for seamless system integration. Ignition offers an extensive suite of device and database drivers, enabling it to serve as a centralized hub for all plant floor operations, ensuring comprehensive and efficient total system integration.

#### Enterprise Architecture

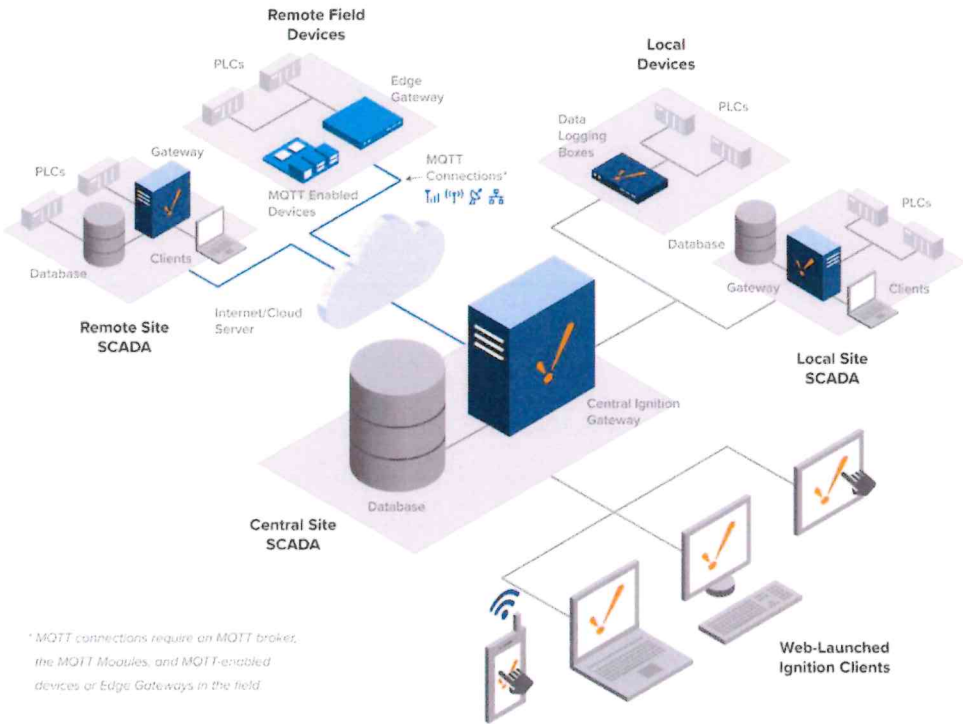
The Ignition enterprise architecture enables you to create a connected system while also securing data at multiple levels. Connect multiple sites to a central corporate server and use Ignition Edge to ensure data from critical assets is never compromised. Connecting through a DMZ provides an additional layer of security for transferring and accessing data. The Ignition Gateway connects easily to cloud services like Microsoft Azure, AWS, IBM Cloud, and Google Cloud for storage and analytics.





## Hub & Spoke Architecture

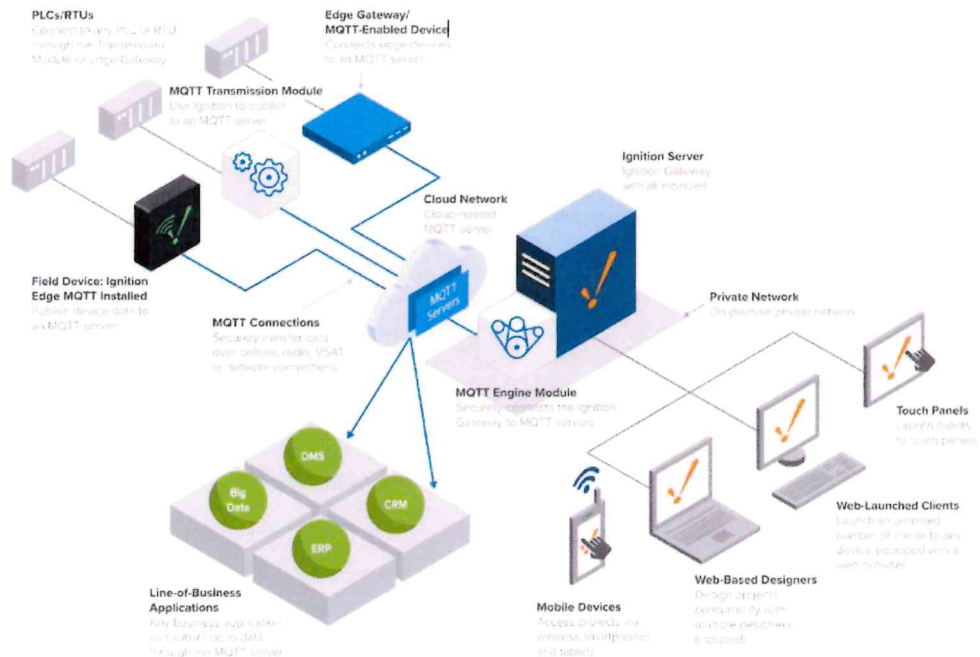
The hub and spoke architecture consists of two pieces. The hub piece consists of a central Ignition Gateway with Vision, Reporting and Mobile Modules and a database server. The spoke piece consists of a stripped-down Ignition Gateway with OPC UA and SQL Bridge Modules, dedicated for logging. Each site is fully independent, operating with its own history, alarms, and clients, with the client Gateway being used for coordination and long-term history storage.





## Ignition IloT Architecture

Ignition IloT collects data from any device at the edge of the network, publishes that data to a central broker, and pushes the data to subscribed industrial and line-of-business applications. Ignition IloT can connect to PLCs in the field through the use of the MQTT Transmission module, field devices with Ignition Edge MQTT installed, and/or MQTT-enabled edge gateways and field devices that use the Cirrus Link Sparkplug MQTT specification. This data is published to an MQTT broker, this broker can be located on-premise, in the cloud, or a hybrid of the two. The MQTT Engine module located on an Ignition Gateway can subscribe to any data published from the broker, this data can be used in any Ignition application.



## OPTO22 GROOV EPIC PLC

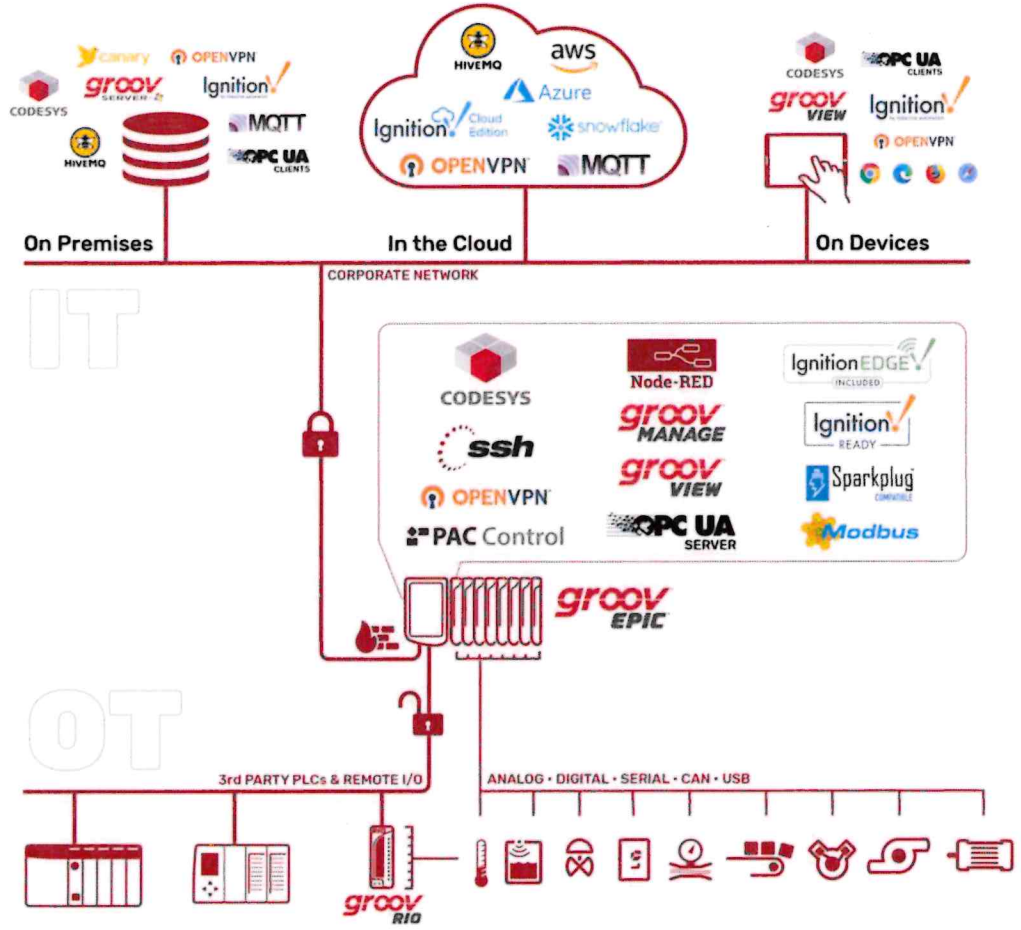
At Stellar Technology & Automation, we standardize our clients on the **Groov EPIC PLC**, a state-of-the-art industrial controller tailored for modern SCADA systems. **Groov EPIC** combines edge computing, data processing, and seamless integration to optimize operations at the network's edge, reducing latency and ensuring data integrity.

With tools like **Ignition Edge**®, **Node-RED**, and **MQTT** protocols, **Groov EPIC** securely connects databases, cloud services, and legacy systems like Allen-Bradley® and Siemens®, enabling efficient data sharing and decision-making. It also offers versatile data visualization through its built-in touchscreen, external monitors, or remote access via web browsers and mobile devices.

**Groov EPIC's** robust design and adaptability ensure it meets today's automation needs while providing a scalable, future-proof solution. By adopting **Groov EPIC**, our clients gain a reliable foundation for innovation, efficiency, and growth in industrial control systems.



# GROOV EPIC Software Architecture





**CONTRACT NO.: RCSD 2025-01**  
**RUBIDOUX COMMUNITY SERVICES DISTRICT**

**MASTER AGREEMENT FOR SCADA SYSTEM SERVICES BY INDEPENDENT CONSULTANT  
UTILIZING TASK ORDERS**

THIS AGREEMENT is made the date first approved by and between the “parties” to this contract referred to as “RUBIDOUX” and “CONSULTANT” as follows:

**RUBIDOUX**

Rubidoux Community Services District  
Post Office Box 3098  
Riverside, CA 92519-3098  
(951) 684-7580

**CONSULTANT**

Stellar Technology and Automation  
7940 Bounty Trl  
Jurupa Valley, CA 92509 US  
(951) 512-0819

**RECITALS**

THIS AGREEMENT is entered into on the basis of the following facts, understandings and intentions of the parties to this Agreement:

- A. RUBIDOUX desires to engage the professional services of the CONSULTANT to perform such professional consulting services as may be assigned, from time to time, by RUBIDOUX in writing.
- B. CONSULTANT agrees to provide such services pursuant to, and in accordance with, the terms and conditions of this Agreement, and has represented and warrants to RUBIDOUX that CONSULTANT possesses the necessary licenses, skills, qualifications, personnel and equipment to provide such services.
- C. The services to be performed by CONSULTANT shall be specifically described in one or more written Task Orders issued by RUBIDOUX to CONSULTANT pursuant to this Agreement.

**AGREEMENT**

NOW, THEREFORE, in consideration of the foregoing Recitals and mutual covenants contained herein, RUBIDOUX and CONSULTANT agree as follows:

**ARTICLE I**

**TERM OF AGREEMENT**

1.01 **Term of Agreement.** The Agreement shall become effective on the date first approved and shall continue unless terminated as provided for herein.



**ARTICLE II**  
**SERVICES TO BE PERFORMED**

2.01 Services to be Performed by CONSULTANT. CONSULTANT agrees to provide such professional consulting services as may be assigned, from time to time, in writing by RUBIDOUX. Each such assignment shall be made in the form of a written Task Order. Each such Task Order shall include, but shall not be limited to, a description of the nature and scope of the services to be performed by CONSULTANT, the amount of compensation to be paid, and the expected time of completion.

2.02 CONSULTANT may, at CONSULTANT's sole cost and expense, employ such competent and qualified independent professional associates, subcontractors and consultants as CONSULTANT deems necessary to perform each such assignment; provided, however, that CONSULTANT shall not subcontract any of the work to be performed without the prior written consent of RUBIDOUX, which should not be unreasonably withheld.

**ARTICLE III**  
**COMPENSATION**

3.01 In consideration for the services to be performed by CONSULTANT, RUBIDOUX agrees to pay CONSULTANT as provided for in each Task Order.

3.02 Each Task Order shall specify a total not-to-exceed sum of money and shall be as set forth on an exhibit to be attached to each Task Order issued to CONSULTANT.

3.03 RUBIDOUX shall reimburse CONSULTANT for reasonable and necessary expenses incurred by CONSULTANT in the performance of services for RUBIDOUX. Reimbursement shall be according to schedules set forth in each Task Order.

3.04 Unless specifically stipulated otherwise in the Task Order or unless specifically approved in advance by RUBIDOUX in writing, CONSULTANT shall not be compensated for any services rendered nor reimbursed for any expenses incurred in excess of those authorized in any Task Order.

3.05 Unless otherwise provided for in any Task Order issued pursuant to this Agreement, payment of compensation earned shall be made in monthly installments within thirty (30) days after receipt of a detailed, corrected, written invoice describing, without limitation, the services performed, the time spent performing such services, the hourly rate charged therefore, and the classification of individuals performing such service for the benefit of RUBIDOUX. Such invoices shall also include a detailed itemization of expenses incurred.

3.06 CONSULTANT fee rates used to calculate Task Order not-to-exceed sums shall be based on the Fee Schedule in said Task Order. No allowance for escalation of fees is allowed during the term of Task order, unless specifically approved by RUBIDOUX.

For Ongoing Consulting Services (non-Task Order work), CONSULTANT fee rates shall be based on the annual fee schedule for the calendar year in which the services are provided. CONSULTANT shall submit annual fee schedules to RUBIDOUX prior to each new year and shall become effective January 1 of each year.

**ARTICLE IV**  
**OBLIGATIONS OF CONSULTANT**

4.01 CONSULTANT agrees to perform all assigned services in accordance with the terms and conditions of this Agreement and those specified in each Task Order.

4.02 Except as otherwise provided for in each Task Order, CONSULTANT will supply all personnel and equipment required to perform the assigned services.

4.03 CONSULTANT hereby agrees to be solely responsible for the health and safety of its employees and agents in performing the services assigned by RUBIDOUX. Therefore, CONSULTANT hereby covenants and agrees to:

- a. Obtain and maintain a comprehensive general liability policy in an amount of not less than \$1,000,000 naming RUBIDOUX as an additional insured;
- b. Obtain and maintain an automobile liability policy in an amount of \$1,000,000 combined single limit per accident for bodily injury and property damage;
- c. Obtain and maintain a policy of malpractice insurance in a minimum amount of \$1,000,000 to cover any negligent acts or omissions committed by CONSULTANT, or its employees in the performance of any service for RUBIDOUX;
- d. Provide worker's compensation insurance for CONSULTANT's employees;
- e. Comply with all local, state and federal laws, rules and regulations.

Evidence of all insurance coverage shall be provided to RUBIDOUX prior to issuance of the first Task Order. CONSULTANT and RUBIDOUX waive all rights against each other and their respective directors, officers, partners, commissioners, officials, agents, subcontractors, consultants, and employees for damages covered by any type of property insurance during and after the completion of the services. A similar provision shall be incorporated into all construction contractual arrangements entered into by RUBIDOUX and shall protect RUBIDOUX and CONSULTANT to the same extent. All project contractors shall be required to include RUBIDOUX and CONSULTANT as additional insured on their General Liability insurance policies and shall be required to indemnify RUBIDOUX and CONSULTANT to the same extent.

4.04 Each party agrees to defend, indemnify, and hold harmless each other, its agents and employees, from and against legal liability for all claims, losses, damages, and expenses to the extent such claims, losses, damages, and expenses are caused by its negligent acts, errors, or omissions. In the event such claims, losses, damages, or expenses are caused by the joint or concurrent negligence of CONSULTANT and RUBIDOUX, such liability shall be borne by each party in proportion to its own negligence.

4.05 In the event that RUBIDOUX requests that specific employees of CONSULTANT supervise or otherwise perform the services specified in each Task Order, CONSULTANT shall use its best efforts to ensure that such individual (or individuals) shall be appointed and assigned the responsibility of performing the services.

4.06 In the event CONSULTANT is required to provide plans, drawings, specifications and/or estimates, the same shall be furnished with a registered civil engineer's number or other professional license as applicable and shall conform to local, state and federal laws, rules and regulations. In the event RUBIDOUX is required to obtain approval or permit from another governmental entity, CONSULTANT shall provide necessary supporting documents to be filed with such entity.

#### **ARTICLE V**

#### **OBLIGATIONS OF RUBIDOUX**

5.01 RUBIDOUX shall do the following in a manner so as not to unreasonably hinder the performance of services by CONSULTANT:

- a. Provide information and criteria regarding RUBIDOUX's requirements;
- b. Furnish all existing studies, reports and other available data pertinent to each Task Order that are in RUBIDOUX's possession;
- c. Designate a person to act as a liaison between CONSULTANT and RUBIDOUX.

#### **ARTICLE VI**

#### **ADDITIONAL SERVICES CHANGES AND DELETIONS**

6.01 During the term of this Agreement, RUBIDOUX may with concurrence of CONSULTANT, from time to time, and without affecting the validity of this Agreement or any Task Order issued pursuant thereto, order changes, deletions and additional services by the issuance of written Change Orders or Task Order Amendments

6.02 In the event CONSULTANT performs additional or different services than those described in any Task Order or a authorized Change Order without the prior written approval of RUBIDOUX, CONSULTANT shall not be compensated for such services.

6.03 CONSULTANT shall promptly advise RUBIDOUX as soon as reasonably practicable upon gaining knowledge of a condition, event or accumulation of events which may affect the scope and/or cost of services to be provided pursuant to this Agreement. All proposed changes, modifications, deletions and/or requests for additional services shall be reduced to writing for review and approval by RUBIDOUX.

6.04 In the event that RUBIDOUX orders services deleted or reduced, compensation shall likewise be deleted or reduced by a fair and reasonable amount and CONSULTANT shall only be compensated for services actually performed. In the event additional services is properly authorized, payment for the same shall be made as provided in Article III above.

**ARTICLE VII**  
**CONSTRUCTION MANAGEMENT/INSPECTION SERVICES**

7.01 In the event RUBIDOUX authorizes CONSULTANT to perform construction management/inspection services for RUBIDOUX, CONSULTANT may determine, in the course of providing such services, that a Change Order should be issued to the third party construction contractor, or CONSULTANT may receive a request for a Change Order from the third party construction contractor. CONSULTANT shall, upon receipt of any requested Change Order, or upon gaining knowledge of a condition, event or accumulation of events which may necessitate issuing a Change Order to the third party construction contractor, promptly consult with RUBIDOUX. No Change Order shall be issued or executed without the prior approval of RUBIDOUX.

**ARTICLE VIII**  
**TERMINATION AGREEMENT**

8.01 In the event the time specified for completion of an assigned Task in the Task Order exceeds the term of this Agreement, for the purpose of that Task only, the term of this Agreement shall be automatically extended for such additional time as is necessary to complete such Task Order, and thereupon this Agreement shall automatically terminate without further notice.

8.02 Notwithstanding any other provision of this Agreement, RUBIDOUX, at its sole option, may terminate either a Task Order or this Agreement at any time by giving fourteen (14) days written notice to CONSULTANT, whether or not a Task Order has been issued to CONSULTANT.

8.03 In the event of termination of either a Task Order or this Agreement, the payment of monies due CONSULTANT for services performed prior to the effective date of such termination shall be paid within thirty (30) days after receipt of an invoice as provided in this Agreement. Upon payment for such services, CONSULTANT agrees to promptly provide to RUBIDOUX all documents, reports, purchased supplies and the like which are in the possession or control of CONSULTANT and pertain to RUBIDOUX, except that CONSULTANT may retain one complete copy to be maintained in CONSULTANT's files.



**ARTICLE IX**  
**STATUS OF CONSULTANT**

9.01 CONSULTANT shall perform the services assigned by RUBIDOUX in CONSULTANT's own way as an independent contractor, and in pursuit of CONSULTANT's independent calling, and not as an employee or agent of RUBIDOUX. CONSULTANT shall be under the control of RUBIDOUX only as to the result to be accomplished. CONSULTANT shall regularly confer with RUBIDOUX's liaison.

9.02 CONSULTANT hereby specifically represents and warrants to RUBIDOUX that the services to be rendered pursuant to this Agreement shall be performed in accordance with the standards customarily applicable to an experienced and competent professional consulting organization rendering the same or similar services. Further, CONSULTANT represents and warrants that the individual signing this Agreement on behalf of CONSULTANT has the full authority to bind CONSULTANT to this Agreement. No other warranty, expressed or implied, is included in this Agreement or in any drawing, specification, report, or opinion produced pursuant to this Agreement.

**ARTICLE X**  
**AUDIT OWNERSHIP OF DOCUMENTS**

10.01 All final reports, plans, drawings, specifications, and design calculations prepared or developed by CONSULTANT in connection with the performance of services assigned to it by RUBIDOUX shall become the sole property of RUBIDOUX, and CONSULTANT shall promptly deliver all such deliverable materials to RUBIDOUX.

Other than maps, plans, and drawings, CONSULTANT may retain original documents at its option, and furnish reproductions. RUBIDOUX shall receive the work product together with supporting documentation. CONSULTANT shall retain its rights in its standard drawing details, specifications, databases, computer software, and proprietary property.

10.02 CONSULTANT shall retain and maintain, for a period of not less than four (4) years following termination of this Agreement, all time records, accounting records and vouchers and all other records with respect to all matters concerning services performed, compensation paid and expenses reimbursed. At any time during normal business hours and as often as RUBIDOUX may deem necessary, CONSULTANT shall make available to RUBIDOUX's agents for examination all of such records and will permit RUBIDOUX's agents to audit, examine and reproduce such records. No such records shall be destroyed without their first being offered to RUBIDOUX.

**ARTICLE XI**  
**MISCELLANEOUS PROVISIONS**

11.01 This Agreement supersedes any and all previous conflicting agreements, either oral or written, between the parties hereto with respect to the rendering of services by CONSULTANT for RUBIDOUX and contains all of the covenants and agreements between the parties with respect to the rendering of such services in any manner whatsoever. Any modification of this Agreement will be effective only if it is in writing and signed by both parties.

11.02 CONSULTANT shall not assign or otherwise transfer any rights or interest in this Agreement without the prior written consent of RUBIDOUX. Unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under this Agreement.

11.03 Time is of the essence in the performance of services required hereunder. Work shall begin immediately upon receipt of written authorization of RUBIDOUX to proceed. Progress meetings will be conducted periodically in order to review the work accomplished and to obtain staff input and concurrence with the work completed to date. Extensions of time within which to perform work may be granted by RUBIDOUX if requested by CONSULTANT and agreed to in writing by RUBIDOUX. All such requests must be documented and substantiated and will only be granted as the result of unforeseeable and unavoidable delays not caused by the lack of foresight on the part of CONSULTANT. CONSULTANT shall not be responsible for delays beyond its reasonable control.

11.04 CONSULTANT shall comply with all local, state and federal laws, rules and regulations regarding nondiscrimination and the payment of prevailing wages.

11.05 If required by law, CONSULTANT shall file Conflict of Interest Statements with RUBIDOUX.

11.06 Nothing in this Agreement shall be construed to give any rights or benefits to anyone other than RUBIDOUX and CONSULTANT.

IN WITNESS WHEREOF, the parties hereby have made and executed this Agreement as of the day and year first approved herein.

**RUBIDOUX COMMUNITY SERVICES DISTRICT**

**STELLAR TECHNOLOGY & AUTOMATION**

BY: \_\_\_\_\_

Brian Laddusaw, CPA  
General Manger

BY: \_\_\_\_\_

Chris Hamilton  
Controls Engineer, Founder

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_

REVIEWED:

BY: \_\_\_\_\_  
Kirk Hamblin  
Director of Finance & Administration

DATE: \_\_\_\_\_

# Houston & Harris PCS, Inc.

P.O. Box 10367  
 San Bernardino, CA 92423  
 (909) 422-8990  
 www.houstonandharris.com

Due Upon Receipt. A 2% late fee will be charged monthly

## Invoice

Bill to:

Date	Invoice #
1/13/2025	25-26436

Rubidoux Community Service District  
 ATTN: Accounts Payable  
 P. O. Box 3098  
 Rubidoux, CA 92519

Additional Information

Project / Job #		P.O. Number		Terms	City
Lift Station Emergency 1-08-25				Due on receipt	Rubidoux
Date	Work Order #	Description	Quantity	Rate	Amount
1/8/2025	16832	Hydro-wash (Cleaning); 2-Man Crew: Emergency	5.25	556.00	2,919.00
		Travel	1	350.00	350.00

Payment is due upon receipt. Please be aware that we will charge 2% per month on late invoices.

Houston & Harris PCS, Inc. reports all delinquent accounts to Dunn & Bradstreet.

\*\*\* It is the sole responsibility of the client to be in compliance with any State or Federal Prevailing Wage requirements. The client must notify Houston & Harris PCS, Inc. at the time of scheduling of the correct status. It is also agreed that if the project is discovered to be Prevailing Wage after the fact, a change order will be issued and the client will be responsible for wages due, full amount of rate difference for work completed, legal fees, as well as all fines and penalties under California Labor Codes §1720, §1720.2, §1720.3, §1720.4, §1771, §1775, §1776, and §1813.

<b>Total</b>	\$3,269.00
<b>Payments/Credits</b>	\$0.00
<b>Balance Due</b>	\$3,269.00



5. **CONSENT CALENDAR** (continued)

- E. **DM 2025-03**: Consider Acceptance of Work and Filing Notice of Completion for the Backwash Supply Pipeline Project at Leland Thompson Water Treatment Facility

# Rubidoux Community Services District

## Board of Directors

Hank Trueba Jr., President  
Diana Leja, Vice President  
Bernard Murphy  
John Skerbelis  
Leslie Altamirano

## General Manager

Brian R. Laddusaw



Water Resource Management    Refuse Collection    Street Lights    Fire / Emergency Services    Weed Abatement

## DIRECTORS MEMORANDUM 2025-03

January 16, 2025

**To:** Rubidoux Community Services District  
Board of Directors

**Subject:** Consider Acceptance of Work and Filing Notice of Completion for the Backwash Supply Pipeline Project at Leland Thompson Water Treatment Facility

## BACKGROUND:

On November 14, 2024, construction work for the Leland J. Thompson Water Treatment Plant Backwash Supply Pipeline (“Backwash Pipeline”) was substantially completed (Attachment 1). The project included constructing steel piping and appurtenances, modifying existing piping and valve systems, and providing all required equipment, labor, and materials to support these improvements. The project site is located at 5249 34th Street, Jurupa Valley, CA, under Assessor’s Parcel Number 179-230-019.

The project, performed by G&A Nelos Construction, Inc. (“Contractor”), addressed critical upgrades to the facility’s backwash water supply infrastructure. The improvements ensure reliable operation of the water filtration facility’s backwash process.

The original contract amount was \$534,000.00. Four change orders were approved during the project, resulting in an adjusted final contract amount of \$675,039.26. The final completion date was extended to November 14, 2024, due to unforeseen utilities, additional work requested by District staff, and delays in pipe fabrication.

TABLE 1	
SUMMARY OF CONTRACT COMPLETION	
CONTRACTOR: G & A NELOS CONSTRUCTION, INC.	
ITEM	AMOUNT
Original Contract Amount	\$ 534,000.00
Approved Change Orders	\$ 141,039.26
Adjusted Contract Amount	\$ 675,039.26

- Substantial Completion Date: November 14, 2024
- Final Acceptance Date: January 16, 2025

A summary of the total project costs are as follows:

<b>TABLE 2</b>	
SUMMARY OF PROJECT	
PROJECT: LELAND J. THOMPSON WATER TREATMENT PLANT BACKWASH SUPPLY PIPELINE	
ITEM	AMOUNT
Adjusted Contract w/ Change Orders	\$ 675,039.26
Valves (purchased direct from vendor)	\$ 56,972.52
Construction Oversight (K&S)	\$ 176,700.00
Total Project Cost	<u>\$ 908,711.78</u>
Budgeted Project Cost (DM 2024-43)	<u>\$ 890,000.00</u>
(Under)/Over Budget - \$	<u>\$ 18,711.78</u>
(Under)/Over Budget - %	<u>2.10%</u>

The project was executed in accordance with the contract documents, and the work has been inspected and approved. The project exceeded the original budget by approximately \$19,000, or 2%, due to additional design and geotechnical inspection services. A draft Notice of Completion has been prepared and is ready for filing with the County of Riverside (Attachment 2). Filing the Notice of Completion will initiate the 35-day lien period, after which the final retention payment will be issued to the Contractor. The final retention payment due to Contractor is \$33,751.96.

**RECOMMENDATION:**

Staff recommends the Board of Directors consider the following:

1. Accept the work performed by G&A Nelos Construction, Inc. for the Leland J. Thompson Water Treatment Plant Backwash Supply Pipeline as complete.
2. Authorize the General Manager, or designee, to execute and file the Notice of Completion for the project with the County of Riverside and release the contract retention in the amount of \$33,751.96 after the waiting period has been satisfied.

Respectfully,



BRIAN R. LADDUSAW, CPA  
General Manager

Attachment(s):

1. Memorandum Krieger & Stewart – Recommendation of Acceptance of Work
2. Draft Notice of Completion – Backwash Supply Pipeline project





**MEMORANDUM**

**TO:** BRANDON THOMAS, ASSISTANT GENERAL MANAGER      **FILE:** 587-19.65.6 C  
 RUBIDOUX COMMUNITY SERVICES DISTRICT

**FROM:** BRANDON C. VALADEZ *BCV*      **DATE:** 12/31/2024  
 KRIEGER & STEWART, INCORPORATED

**SUBJECT:** LELAND J. THOMPSON WATER TREATMENT PLANT  
 BACKWASH SUPPLY PIPELINE  
 RECOMMENDATION OF ACCEPTANCE OF CONTRACT WORK

All work required to be performed by G&A Nelos Construction, Inc. including final punch list work is complete. The adjusted Contract Amount and Contract Completion Dates for same are set forth as follows:

	Amount
Original Contract	\$534,000.00
Contract Change Order No. 1	\$4,549.89
Contract Change Order No. 2	\$84,725.19
Contract Change Order No. 3	\$0.00
Contract Change Order No. 4	\$51,764.18
Adjusted Contract	\$675,039.26

Contract Completion Dates	
Original	Adjusted
August 7, 2024	November 14, 2024

Contract Change Order No. 1 is attributable to the Contractor installing the sodium hypochlorite lines in PVC encasement piping and removing existing slurry backfill material around the existing abandoned sodium hypochlorite lines in order to protect existing high pressure air piping in place. Contract Change Order No. 2 is attributable to the District's request for Contractor to construct connection piping between existing Well No. 8 raw water influent piping and the manganese filtration system influent piping. Contract Change Order No. 3 provided a no-cost time extension to the Contractor for pipe fabrication delays resulting from the added Well No. 8 raw water/manganese filtration system influent connection piping. Contract Change Order No. 4 is attributable to added costs associated with construction modifications resulting from



BRANDON THOMAS  
12/31/2024  
PAGE 2

unforeseen utilities and District staff's request for construction of revised pipe supports and reinforced concrete slabs-on-grade.

Since the Contract Work has been performed in accordance with the Contract Documents, we recommend the District accept said work in the amount of \$675,039.26. Subsequent to Board acceptance, a Notice of Completion will be filed and thereafter, following the lien period, the District will make final payment (i.e. release retained amount). A draft Notice of Completion is attached for your use.

If you have any questions, or require additional information, please call.

BCV/nr  
587-19P65-RECACCEPT-R1

Attachment: Notice of Completion

cc: Miguel Valdez, Rubidoux Community Services District

Recording Requested by  
& Mail To:

RUBIDOUX COMMUNITY SERVICES DISTRICT  
Exempt from filing fees per G.C. §6103  
c/o Krieger & Stewart  
3890 Orange Street, #1509  
Riverside, CA 92502

**NOTICE OF COMPLETION**

Notice is given that work was substantially completed on the certain work of improvement known as LELAND J. THOMPSON WATER TREATMENT PLANT BACKWASH SUPPLY PIPELINE for the RUBIDOUX COMMUNITY SERVICES DISTRICT (Owner) on November 14, 2024 and that said work was accepted by the District on January 16, 2025. Owner's address is 3590 Rubidoux Boulevard, Jurupa Valley, CA 92509.

The project generally consisted of construction of providing all equipment, labor, and materials necessary to: construct steel piping and appurtenances and modify existing piping and valve systems at an existing water filtration facility.

The Contractor on said work was G&A NELOS CONSTRUCTION, INC., 16738 Lakeshore Drive, #H275, Lake Elsinore, CA 92530, and the surety of said Contractor is The Ohio Casualty Insurance Company, 175 Berkeley Street, Boston, MA 02116. Said improvements were constructed in County of Riverside at 5249 34th Street, Jurupa Valley, California (Assessor's Parcel Number 179-230-019). See location depicted on Figure 1 attached. Nature of interest is in fee.

I certify under penalty of perjury, under the laws of the State of California, that the foregoing is true and correct.

Executed on \_\_\_\_\_ at Riverside, California.

RUBIDOUX COMMUNITY SERVICES DISTRICT

By: \_\_\_\_\_  
Brandon Thomas  
RUBIDOUX COMMUNITY SERVICES DISTRICT  
Assistant General Manager

587-19P65-NOC

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of \_\_\_\_\_ }  
County of \_\_\_\_\_ } ss.

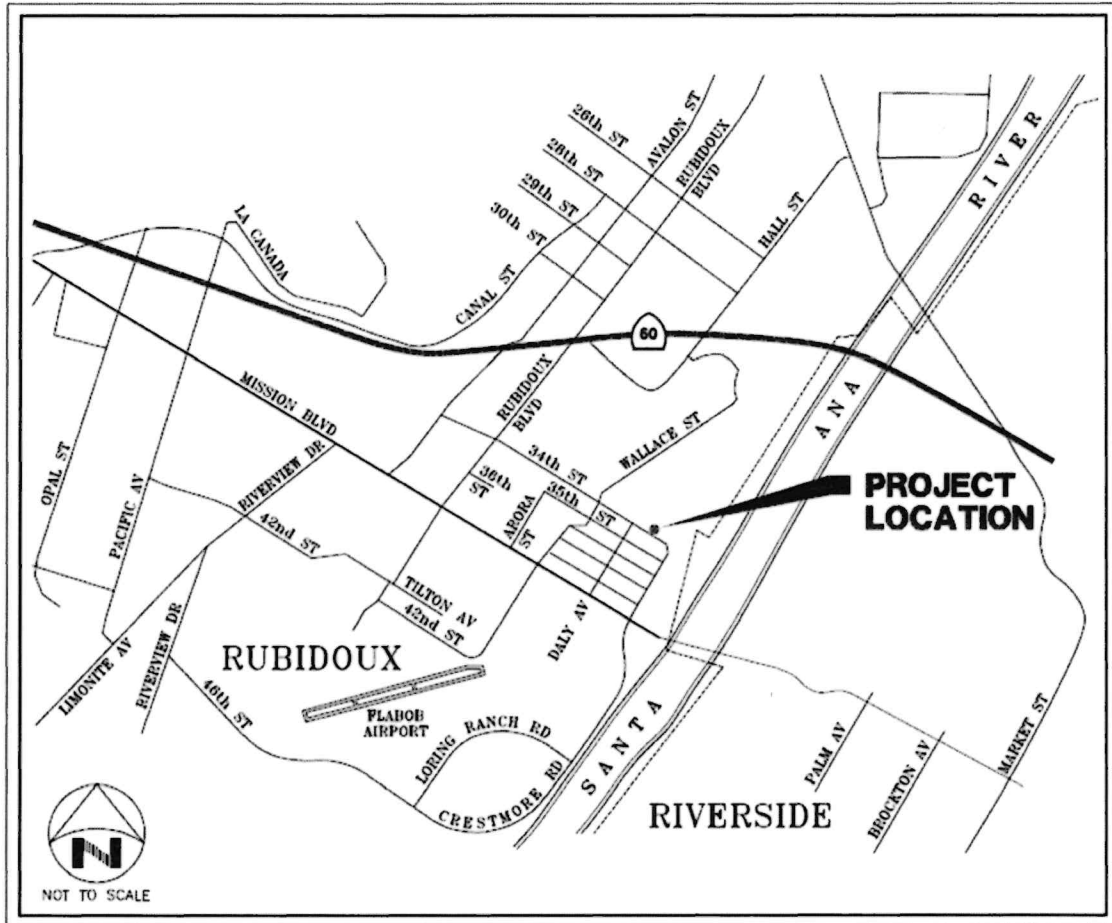
Subscribed and sworn to (or affirmed) before me on this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, by \_\_\_\_\_  
proved to me on the basis of satisfactory evidence to be the person who appeared before me.

(seal)

Signature \_\_\_\_\_

FIGURE 1

RUBIDOUX COMMUNITY SERVICES DISTRICT  
LELAND J. THOMPSON WATER TREATMENT PLANT  
BACKWASH SUPPLY PIPELINE



LOCATION MAP



**6. CORRESPONDENCE AND RELATED INFORMATION**

- A. Article from [pressenterprise.com](http://pressenterprise.com) – LOS ANGELES COUNTY – Experts: Municipal water systems not designed for wildfires
- B. Article from [pressenterprise.com](http://pressenterprise.com) – CALIFORNIA – EPA OKs state's ban on gas cars
- C. Article from [pressenterprise.com](http://pressenterprise.com) – COURTS – Riverside utility refunds ordered
- D. Article from [mercurynews.com](http://mercurynews.com) – NEWS>ENVIRONMENT – Sierra Nevada snowpack above average to start the year, a promising sign for state water supplies

LOS ANGELES COUNTY

# Experts: Municipal water systems not designed for wildfires

BY JASON HENRY

[JHENRY@SCNG.COM](mailto:JHENRY@SCNG.COM)

Hydrants in the hills of the Pacific Palisades ran dry amid one of the worst blazes ever seen in Los Angeles County, forcing firefighters to scramble to draw water from pools and ponds or watch as homes and businesses burned.

On the other side of the county, water pressure in Altadena dropped to a trickle at times as flames from the Eaton fire destroyed neighborhoods.

As stories of firefighters struggling to find water circulated on social media and in the news, residents demanded answers. The response from local officials was consistent: Municipal water systems just aren't designed to fight such intense and prolonged wildfires.

But as climate change makes what were once-in-a-lifetime disasters more common and the borders between urban and wildlands further narrow, stakeholders are now questioning if that needs to change.

Gov. Gavin Newsom on Friday called for an independent investigation into the "causes of lost water supply and water pressure" across Los Angeles County and has asked state and firefighting officials to identify what local governments can do to "provide adequate water supply for emergency responses during future catastrophic events."

Among his concerns is the 117-million-gallon Santa Ynez Reservoir in Pacific Palisades, which was empty due to a maintenance project and could have potentially provided much-needed additional water on the first days of the Palisades fire.

"The ongoing reports of loss of water pressure to some local fire hydrants during the fires and the reported unavailability of water supplies from the Santa Ynez Reservoir are deeply troubling to me and the community," Newsom wrote in a letter to the leadership of Los Angeles Department of Water and Power and L.A. County Public Works. "While water supplies from local fire hydrants are not designed to extinguish wildfires over large areas, losing supplies from fire hydrants likely impaired the effort to protect some homes and evacuation corridors. We need answers to how that happened."

## 'deep dive'

Los Angeles Mayor Karen Bass, when asked about the dry hydrants at a news conference, pledged to complete a "deep dive" into the water supply issues once the fires are out. In the meantime, the L.A. Department of Water and Power deployed 19 mobile water tankers, each carrying up to 4,000 gallons, and the state later mobilized 140 more to augment the struggling water systems.

"We will look at what worked, we will look at what didn't work and we will let you know," Bass said.

In a statement Saturday, the L.A. Department of Water and Power stressed that the water system serving "the Pacific Palisades area and all of the Los Angeles meets all federal and state fire codes for urban development and housing."

"As we face the impacts of climate change and build climate resilience, we welcome a review and update of these codes and requirements if city water systems will be used to fight extreme wildfires," the statement reads. "LADWP is initiating our own investigation about water resiliency and how to enhance our posture to respond to the impacts of climate change."

The department was required to take the Santa Ynez Reservoir offline to comply with safe drinking water regulations while the city put a project to repair its cover out to bid early last year, documents showed.

Experts agree that any upgrades to the water systems in these foothill communities won't come cheap or easy.

Gregory Pierce, a water researcher and co-director of UCLA's Water Resources Group, said residents of Pacific Palisades, for example, might need to bear the cost for special protections, which could include building more storage tanks to keep pressure up and backup power sources to sustain water pumps during outages.

Three reserve tanks used to supply hydrants at higher elevations and holding about a million gallons each were overwhelmed and drained one after another Tuesday night and early Wednesday morning.

Those systems are typically overbuilt by as much as 40% specifically to provide capacity for fighting fires, Peirce said, but the demand during the first day of the Palisades fire was four times higher than usual and stayed at that level for 15 hours straight, according to city officials.

In its Saturday statement, the L.A. Department of Water and Power pushed back against claims that any hydrants were broken and said only about 20% of the hydrants, mostly at higher elevations, ran out because of the surge in demand.

"If Palisades residents really want a super robust system to handle fires like this one, it would be unlike anything that exists in the world," Pierce said. "That's going to cost an incredible amount, and that cost can't reasonably be borne by the entire city of Los Angeles."

Even if there had been more water, unusually high winds grounded air support and accelerated the spread of the fires beyond what the available ground force could control, Pierce said.

### **'overwhelmed'**

"I'm not sure any level of preparedness from the water side would've stopped the fire," Pierce said. "DWP is doing an analysis on this now. No one can say exactly what condition the pieces of infrastructure were in except the DWP, but there's no good reason to think that they performed anomalously. They were just overwhelmed because they aren't built for wildfires, and this was a very quick and ferocious start to a wildfire."

At a news conference Wednesday, Pasadena Fire Department Chief Chad Augustin told reporters he wasn't surprised to hear water pressure dropped during the initial fight against the Eaton fire in Pasadena and unincorporated Altadena on Tuesday night.

Winds reached up to 100 mph, launching embers as far as 2 miles away, he said.

"When you have multiple fires, multiple city blocks on fire, with — I'll throw a number out — a hundred fire engines flowing water, we are going to stretch our water system," Augustin said. "On top of that, we had a loss of power temporarily, which impacted our water system. I'll be clear, we could have had much more water, but with those wind gusts, we were not stopping that fire last night."

The water shortages at the Palisades and the Eaton fires make it clear that municipalities prone to wildfires need to rethink how they distribute water and power as extreme weather events become more frequent due to climate change, said Laurie Huning, an assistant professor in the Department of Civil Engineering and Construction Engineering Management at Cal State Long Beach. Hydrant systems designed around fighting one or two house fires may no longer cut it, she said.

"Much of the infrastructure we have was developed well before people were thinking about, or even considering, climate change," she said.

Climate scientists have attributed the explosive nature of these fires to what some are calling "hydroclimate whiplash," a phenomenon in which significant years of rainfall — and subsequent vegetative growth — are followed by extremely dry periods, effectively turning hillsides into tinderboxes.

These types of system failures during wildfires aren't new, unfortunately. Most recently, firefighters experienced an almost identical issue with hydrants at higher elevations running low during the Mountain fire in Camarillo in November, according to the Ventura County Star.

Still, the cities and the county should bring in outside technical experts to assess the pressure issues and to determine how to prevent recurrences in the future, said Michael Stenstrom, a professor of civil and environmental engineering at UCLA.

### **water sources**

While the Santa Ynez Reservoir may have helped out if it had been operational, there also are other reservoirs and dams abandoned throughout Los Angeles County because “we didn’t want to spend the money” to complete seismic retrofitting, he said.

Each of those could potentially supply water in emergencies if they were returned to operation.

Other obvious improvements could be made systemwide as well, he said, such as accelerating the city of Los Angeles’ replacement of century-old pipes or building more pump stations — and more resilient power sources — near fire-prone areas to ensure reliable water pressure during emergencies. It will require political will, significant financing, likely decades of time and stronger, and perhaps unpopular, regulations, he said.

Stenstrom is hopeful this disaster will serve as a catalyst to spur city and county officials to take bold action.

“After a big earthquake, there’s always more willpower to increase codes and improve building safety,” Stenstrom said. “We’ll probably see that with respect to fire safety after this one, at least I hope we do, and I hope we can be very aggressive about it.”



CALIFORNIA

## EPA OKs state's ban on gas cars

Trump administration likely to try to overturn rule setting 2035 deadline on new vehicles

BY MATTHEW DALY

THE ASSOCIATED PRESS

WASHINGTON — The Environmental Protection Agency on Wednesday granted two requests from California to enforce strict standards for vehicle emissions, including a rule aimed at banning sales of new gasoline-powered cars in the state by 2035. The incoming Trump administration is likely to try to reverse the action.

The California rule is stricter than a federal rule adopted this year that tightens emissions standards but does not require sales of electric vehicles.

The EPA said its review found that opponents of the two waivers did not meet their legal burden to show how either the EV rule or a separate measure on heavy-duty vehicles was inconsistent with the federal Clean Air Act.

“California has long-standing authority to request waivers from EPA to protect its residents from dangerous air pollution coming from mobile sources like cars and trucks,” EPA Administrator Michael Regan said in a statement. “Today’s actions follow through on EPA’s commitment to partner with states to reduce emissions and act on the threat of climate change.”

The new waiver is important not only to California but to more than a dozen other states that follow its nation-leading standards on vehicle emissions.

Even so, the waiver is likely to be short-lived. President-elect Donald Trump has said he will move to revoke all California waivers as part of an industry-friendly approach that includes boosting production of fossil fuels and repealing key parts of a landmark 2022 climate law.

Trump rescinded California’s authority on emissions in 2019, only to be reversed three years later by the Biden EPA, which restored the state’s authority in 2022.

Any effort by the new administration is likely to spawn a new set of legal challenges that could delay any action.

Democratic Gov. Gavin Newsom, who often touts California’s leadership on climate policy, said the EPA’s approval of the advanced clean-cars rule was a vote of confidence in California’s accomplishments in “protecting our people by cleaning our air and cutting pollution.”

“Naysayers like President-elect Trump would prefer to side with the oil industry over consumers and American automakers, but California will continue fostering new innovations in the market,” Newsom said.

Ford, Honda, Volkswagen and other major automakers are meeting current California emission standards, but some major car companies questioned the latest EPA waiver.

Most of the Democratic-leaning states that have adopted California’s rules — clustered along the West Coast and in the Northeast — are not selling anywhere near the 35% level of EV sales required next year and are unlikely to meet the 2035 target of 100% EV sales, according to the Alliance for Automotive Innovation, a large industry group.

“Achieving the sales mandates under current market realities will take a miracle,” said John Bozzella, the group’s CEO. “There needs to be balance, and some states should exit the (California) program.”

Automakers are producing electric vehicles, Bozzella said, “but there’s a huge gap between these EV sales mandates and a customer’s reasonable expectation they can still choose what kind of vehicle to drive.” He expects Trump to revoke the California waiver next year.

Scott Vazin, a spokesman for Toyota in North America, said approval of the California waiver “will distort the auto industry as companies funnel zero-emission vehicles to the states that have adopted California’s rules.” If a customer in a state that follows California can’t afford an EV “or it doesn’t meet their needs, there may not be a nonelectric vehicle on the lot to purchase for their mobility needs,” Vazin said.

Environmental groups hailed the Biden administration’s action.

“EPA’s approval is a critical step forward in protecting our lungs from pollution and our wallets from the expenses of combustion fuels,” said Paul Cort, director of Earthjustice’s Right To Zero campaign. “The gradual shift in car sales to zero-emissions models will cut smog and household costs while growing California’s clean energy workforce.”

Kathy Harris, director of clean vehicles at the Natural Resources Defense Council, said the decision shows respect for California and other states.

“California decided that transitioning to cleaner, zero-emission vehicles is the best way to address the unique (air pollution) burdens it faces,” she said. “This is exactly how our system of federalism should work. If other states don’t like California’s approach, they don’t need to follow it. But no one should object to the long-standing authority of states to act to protect their residents.”

The EPA’s action comes as the Supreme Court said last week it will take up a business-backed appeal challenging an earlier California waiver issued by the Biden administration. The justices agreed to hear an appeal filed by fuel producers who object to an EPA waiver granted in 2022.

The high court will not be reviewing the waiver itself but a related issue: whether fuel producers have legal standing to challenge it. A federal appeals court ruled that the companies lacked the right to sue because they produced no evidence that they would be affected by the waiver, which directly affects vehicle manufacturers.

*Associated Press writer Sophie Austin in Sacramento contributed to this report.*

## COURTS

## Riverside utility refunds ordered

Judge rules \$37M owed to customers after city illegally transferred water revenue to other funds

BY BEAU YARBROUGH

[BYARBROUGH@SCNG.COM](mailto:BYARBROUGH@SCNG.COM)

Riverside Public Utilities customers will be eligible for more than \$37 million in refunds after Superior Court judges found the city has been illegally transferring 11.5% of water revenues to pay for other basic city services.

The decision came earlier this month, when Superior Court Judge Harold W. Hopp ruled in a case brought by Riverside residents in 2019.

The lawsuit alleged the city of Riverside was violating state Proposition 218 by overcharging ratepayers to generate excess water profits for purposes unrelated to providing water. The 1996 law prevents utilities from charging customers more than the actual cost of service.

In May 2023, Judge Craig Riemer ruled the city's practice violated the law, but didn't rule on whether the residents who brought the suit had been damaged by Riverside transferring revenues.

The Dec. 3 ruling says customers are eligible for at least \$37 million in refunds, and that number could still go up. Hopp will get additional information about funds collected before July 2018 and spent after September 2023, and all parties are expected to meet again next month to discuss the issue.

It's not clear when water customers would see any refunds.

This is not the first such battle between Riverside residents and the city over utility revenues.

In 2016, a resident sued the city, arguing that if the city-owned utility could give millions each year to the general fund, it was overcharging customers on their bills. A lower court ruled in favor of the city a year later.

Then in 2020, a Superior Court judge ruled that an electricity rate hike being used in part to pay for other city services was an unconstitutional tax. The city ended up paying a \$24 million settlement and had to let voters decide about the practice of diverting electrical rate revenues toward other city needs. Voters approved the practice in 2021, with 54.52% of voters saying yes to Measure C.

"Unfortunately, the city keeps doing the same thing it's being told not to do," attorney Ryan Kroll, who represents the plaintiffs in the suit, said on Monday. "The City Council voted in 2023 to continue this practice, so it does seem like the City Council hasn't learned its lesson."

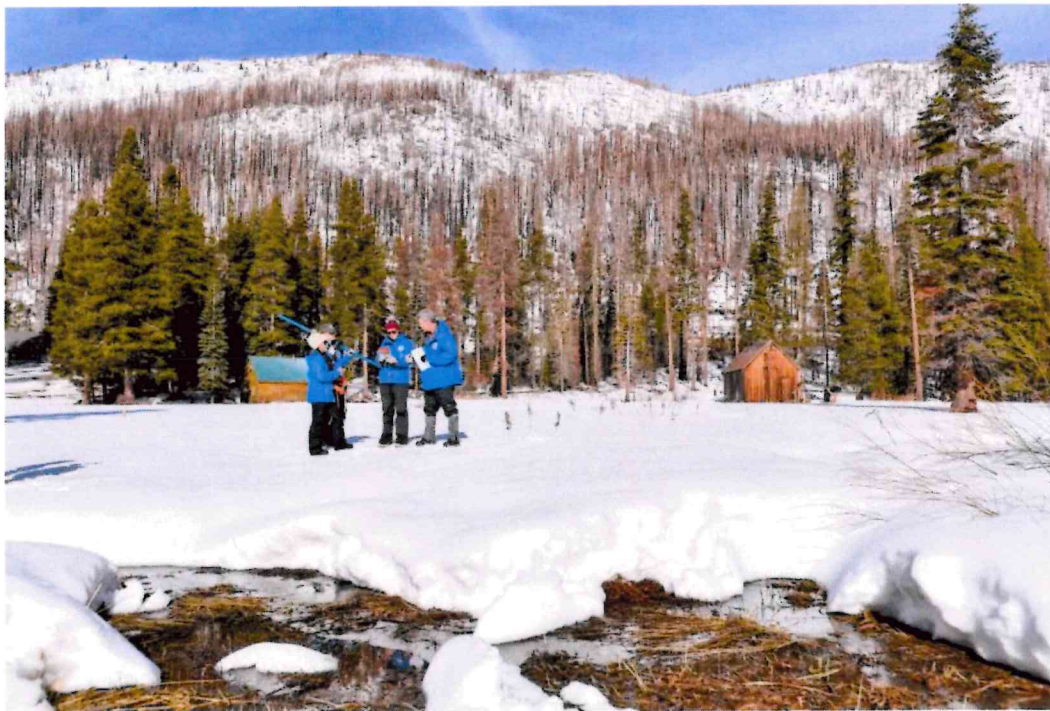
The city of Riverside declined to comment on Hopp's ruling, city spokesperson Phil Pitchford wrote in an email, because "litigation is not yet complete."



NEWS > ENVIRONMENT • News

# Sierra Nevada snowpack above average to start the year, a promising sign for state water supplies

Lots of snow and rain so far this year in Northern California, while Southern California is unusually dry



From right, California Department of Water Resources staff members Andy Reising, Snow Surveys and Water Supply Forecasting Unit Manager, Manon von Kaenel, Water Resources Engineer, Jordan Thoennes, Water Resources Engineer, and Angelique Fabbiani-Leon, State Hydrometeorologist, conduct the first media snow survey of the 2025 season at Phillips Station in the Sierra Nevada on Thursday, Jan. 2, 2025. (Nick Shockey/California Department of Water Resources)



By **PAUL ROGERS** | [progers@bayareanewsgroup.com](mailto:progers@bayareanewsgroup.com) | Bay Area News Group

UPDATED: January 3, 2025 at 4:36 AM PST



California's water outlook for 2025 is beginning on a positive note.

The statewide Sierra Nevada snowpack — which provides nearly one-third of California's water supply — on Thursday was 108% of its historic average for Jan. 2 following a series of atmospheric river storms in the northern part of the state in late November and mid-December that boosted snow amounts and provided welcome conditions for skiers.

California's reservoirs are also in better shape than normal after significant rain and snow last year and in 2023. On Thursday, the state's major reservoirs were 121% of their historical average capacity for early January.

There are still roughly three months left in California's winter snow and rain season that typically ends in early April. Dry spells could shut off the precipitation, experts noted Thursday.

"We're feeling good today, but we need to see some more storms," said Andy Reising, manager of the Snow Surveys and Water Supply Forecasting Unit at the state Department of Water Resources.

Reising noted that January snow totals don't always indicate how the winter will end. Last year, the statewide Sierra snowpack was at 28% of normal on Jan. 2, but by April 1 it had grown to 111%. Conversely, in 2022, it was at 150% of average on Jan. 2, but precipitation all but shut off after that, leaving the snowpack at just 37% by April 1.

But this year's reservoir levels, combined with a healthy snowpack now, mean water shortages are unlikely this summer in most cities across the state.



Gondolas at Palisades Tahoe pass above a skier in Olympic Valley, Calif., Tuesday, Dec. 10, 2024. (Karl Mondon/Bay Area News Group)



Officials from the California Department of Water Resources measure the snow on Thursday Jan. 2, 2025 at Phillips Station, an area 90 miles east of Sacramento off U.S. Highway 50 in El Dorado County. (Photo: Facebook DWR)

Shasta, the state's largest reservoir, near Redding, was 77% full on Thursday, while the second-largest — Oroville, in Butte County — was 68% full, and San Luis Reservoir, east of Gilroy, was 69% full. To the south, Diamond Valley, a major off-stream reservoir in Riverside County that is key to water supplies in Los Angeles and surrounding cities, was 97% full.

Of particular note this year is the dramatic difference in precipitation between Northern California and Southern California.

The Northern Sierra snowpack on Thursday was 161% of its historical average. The Central Sierra snowpack was 94%. But the Southern Sierra was only 75% of average.

"Above the I-80 corridor, we got a ton of snow with those atmospheric rivers, but there is less and less as we move south," Reising said.

Rainfall totals are even more dramatic.

Since Oct. 1, San Francisco has received 10.2 inches of rain, or 121% of normal. But Los Angeles has received virtually none at all — just 0.16 inches — over the same time, or 4% of its historical average. Sunny hot conditions have left fire risk high across Southern California through Christmas and New Year's, even as fire season in Northern California all but ended around Thanksgiving when significant rainfall drenched the soil and vegetation.

Historically, Northern California receives more rain than Southern California, which is why nearly all of the state's largest reservoirs were built in the north, said Jay Lund, vice director of the Center for Watershed Sciences at UC Davis. Much of that water is moved south to cities and farms through the massive systems of canals and pumps in the State Water Project and Central Valley Project.

"So far, this year is very unusual," Lund said.

"The north is unusually wet, and the south is very unusually dry."

From a statewide water perspective, Lund noted, if one part of the state has to be dry, it's better that it be the south.

"If you had to pick a region to be dry, you'd rather it be the south, because it doesn't get much rain anyway, and it imports much of its water from the north," Lund said. "Los Angeles gets most of its water from places other than Los Angeles."

Apart from moderate rain and snow Friday, mostly dry conditions are forecast for the next two weeks across the state.

"Extreme shifts between dry and wet conditions are continuing this winter," said Karla Nemeth, director of the state Department of Water Resources. "If the past several years are any indication, anything could happen between now and April, and we need to be prepared."

California has struggled with three severe droughts over the past generation: From 2007-2009, then 2012-2016, and most recently from 2020-2022. Scientists say the warming climate is making droughts more severe, with hotter temperatures and greater fire risk. But when large atmospheric river storms barrel in from the Pacific Ocean, the warmer temperatures enable them to evaporate more water, often resulting in huge blizzards and flood risk, creating a "weather whiplash" for California and other Western states.

Many experts say given that shift, the state needs to do more to capture water in the wet years to reduce the severity of shortages during droughts. Gov. Gavin Newsom has pushed for construction of Sites Reservoir, a \$4.5 billion off-stream reservoir in rural Colusa County north of Davis that would be built in remote ranching areas, and divert some water in wet years from the Sacramento River to store for dry years.

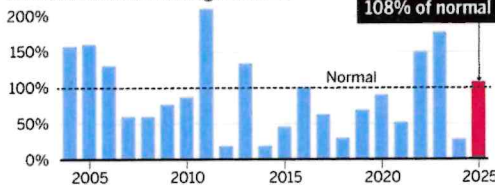
The project, which is supported by President Biden and both of California's senators, has secured most of its funding and survived two lawsuits from environmental groups, which say it could harm fish in the Sacramento-San Joaquin River Delta. It needs to clear one last hurdle — obtaining water rights from the State Water Resources Control Board this year — before construction can begin.

#### WATER OUTLOOK LOOKING GOOD

The Sierra Nevada snowpack, the source of one-third of California's water supply, is off to an above-average start this winter.

##### Statewide snowpack since 2004

Percent of historical average for Jan. 2



Source: California Department of Water Resources BAY AREA NEWS GROUP



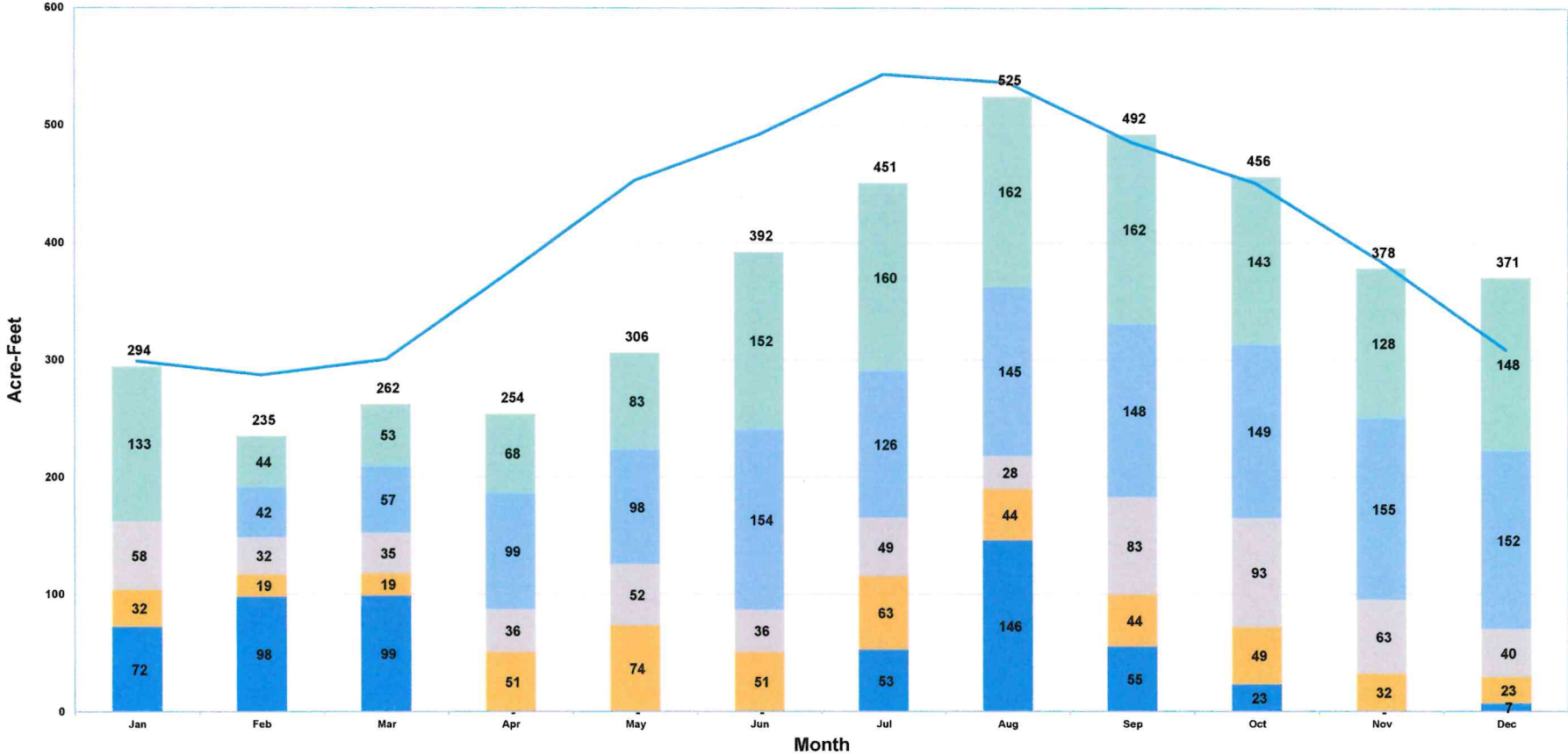
7. **REPORTS**

A. Operations Report (Second Meeting Each Month)



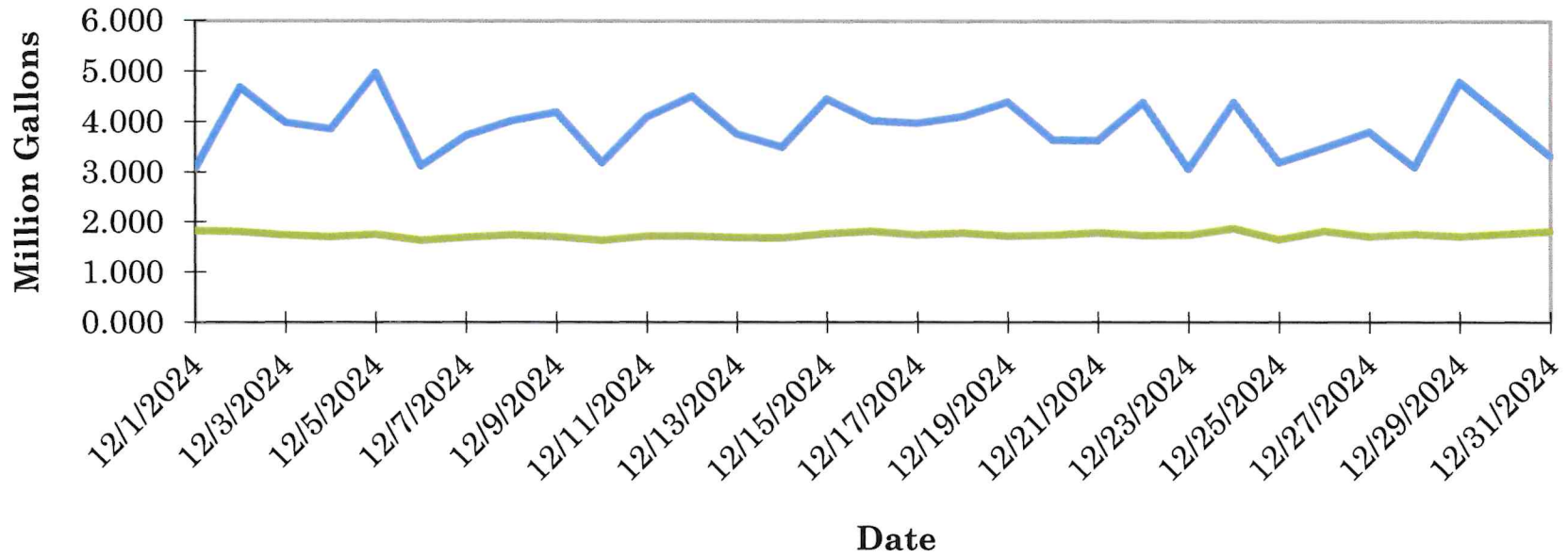
# POTABLE WATER PRODUCTION REPORT (ACRE-FEET)

2024 Calendar Year



JCSD Well No. 18 Well No. 8A Well No. 6 Well No. 4 Well No. 2 Well No. 1A 5 YR Avg

## Potable Water & Wastewater Comparison December 2024



— Potable Water Prod.

— Wastewater Prod



# Chemical Deliveries December 2024

- Sodium Bisulfite 25%
  - Delivered to: Thompson Plant
  - Quantity: 3,052 gallons
- Morton NSF Certified White Crystal Salt
  - Delivered to: Smith Plant
  - Quantity: 22.41 tons
- Sodium Hypochlorite 12.5% (Liquid Chlorine)
  - Delivered to: Thompson Plant, Smith Plant, & Well 8
  - Quantity: 7,227 gallons





# SCE Public Safety Power Shutoffs Affected Sites

Location	Start Time	End Time	Duration
Belltown Lift Station	1/8/25, 2:00 am	1/10/25, 10:30 am	56.5 hours
Jurupa Hills Lift Station	1/8/25, 4:00 am	1/10/25, 7:00 pm	63 hours
Juan Diaz Lift Station	1/8/25, 4:00 am	1/10/25, 7:00 pm	63 hours
Exmoor Lift Station	1/8/25, 4:00 am	1/10/25, 7:00 pm	63 hours
Regional Lift Station	1/8/25, 4:00 am	1/10/25, 7:00 pm	63 hours
Well 11	1/8/25, 4:00 am	1/10/25, 7:00 pm	63 hours
Goldenwest Booster	1/8/25, 4:00 am	1/10/25, 7:00 pm	63 hours





# SCE Public Safety Power Shutoffs Affected Sites

Location	Start Time	End Time	Duration
Thompson Plant	1/8/25, 8:00 am	1/10/25, 10:30 am	50.5 hours
Smith Plant	1/8/25, 10:00 am	1/10/25, 7:00 pm	57 hours
Well 8	1/8/25, 8:00 am	1/10/25, 10:30 am	50.5 hours
Fleetwood Lift Station	1/8/25, 10:00 am	1/10/25, 7:00 pm	57 hours

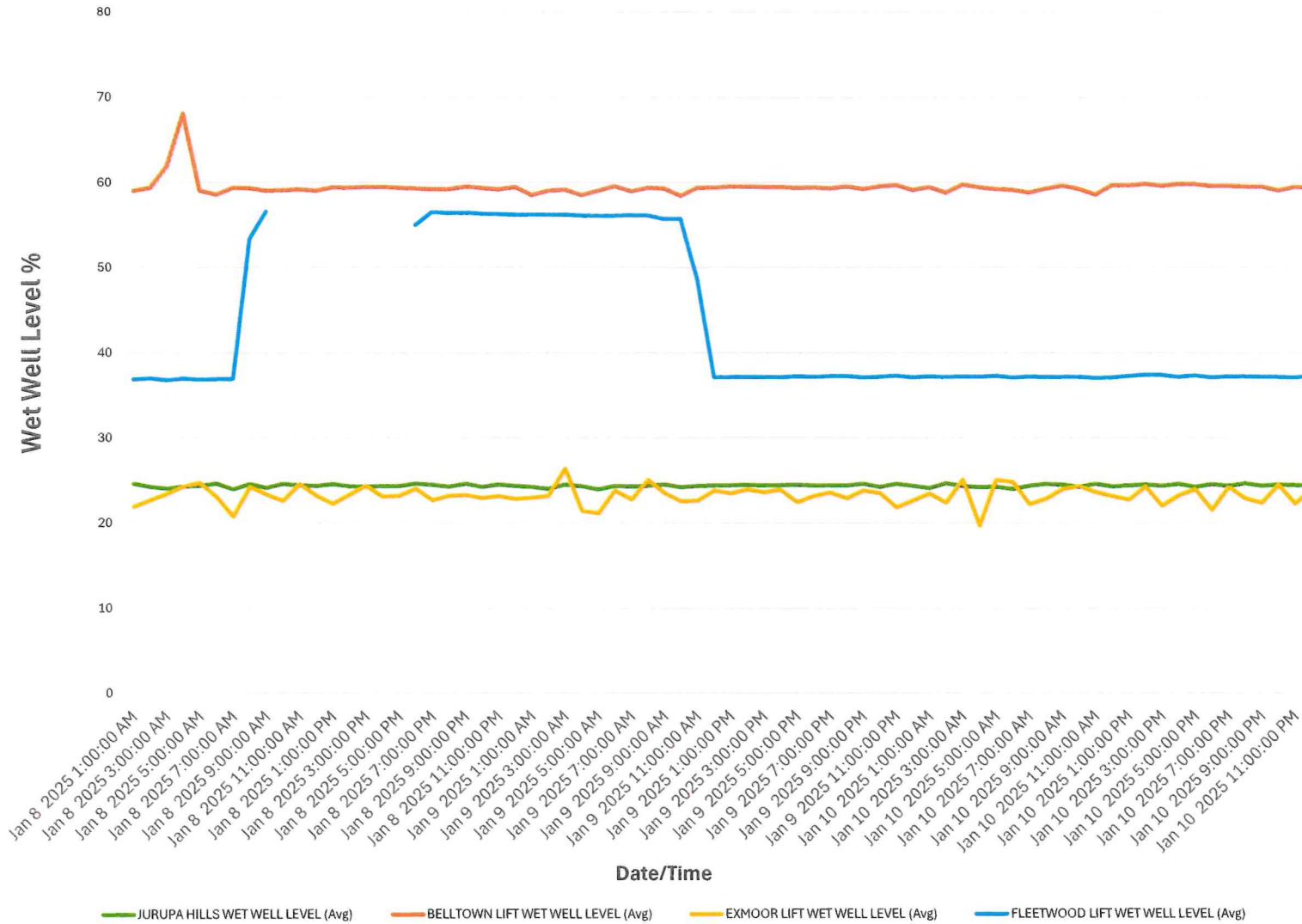


# SCE Public Safety Power Shutoffs Affected Sites

Location	Start Time	End Time	Duration
Goldenwest Booster	1/12/25, 8:45 am	* ongoing	*51 hours
Jurupa Hills Lift Station	1/12/25, 8:45 am	* ongoing	*51 hours
Juan Diaz Lift Station	1/12/25, 8:45 am	* ongoing	*51 hours
Exmoor Lift Station	1/12/25, 8:45 am	* ongoing	*51 hours
Regional Lift Station	1/12/25, 8:45 am	* ongoing	*51 hours
Well 11	1/12/25, 8:45 am	*ongoing	*51 hours
*As of 1/14/25 11:45 am shutoffs are ongoing			



# Jurupa Hills, Belltown, Fleetwood, and Exmoor Sewer Lift Station Levels PSPS Event on Jan 8 12:00 AM to Jan 10 11:59 PM



7. **REPORTS** (continued)

B. Emergency and Incident Report (Second Meeting Each Month)



**CAL FIRE/Riverside County Fire Department**

**Emergency Incident Statistics**



**Bill Weiser**

**Fire Chief**

1/2/2025

**Report Provided By: Riverside County Fire Department**

**Communications and Technology Division**

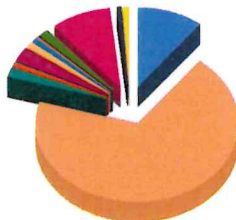
**GIS Section**

**Please refer to Map and Incident by Battalion, Station, Jurisdiction**

Incidents Reported for the month of December 2024 and Special District Rubidoux CSD And Both (Code 2, Alpha, Omega, Code 3, Charlie, Delta, Bravo, Echo)  
\*Incidents are shown based on the primary response area for the incident location. This does not represent total response times for all units only the first unit in.

### Response Activity

Incidents Reported for the month of December 2024 and Special District Rubidoux CSD And Both (Code 2, Alpha, Omega, Code 3, Charlie, Delta, Bravo, Echo)



False Alarm	31	10.5%
Medical	204	68.9%
Other Fire	6	2.0%
Other Misc	2	0.7%
Public Service Assist	9	3.0%
Res Fire	3	1.0%
Rescue	2	0.7%
Ringing Alarm	1	0.3%
Standby	5	1.7%
Traffic Collision	28	9.5%
Vehicle Fire	2	0.7%
Wildland Fire	3	1.0%
<b>Total:</b>	<b>296</b>	<b>100.0%</b>

False Alarm	31
Medical	204
Other Fire	6
Other Misc	2
Public Service Assist	9
Res Fire	3
Rescue	2
Ringing Alarm	1
Standby	5
Traffic Collision	28
Vehicle Fire	2
Wildland Fire	3
<b>Incident Total:</b>	<b>296</b>

### Average Enroute to Onscene Time\*

Enroute Time = When a unit has been acknowledged as responding. Onscene Time = When a unit has been acknowledge as being on scene. For any other statistic outside Enroute to Onscene please contact the IT Help Desk at 951-940-6900

<5 Minutes	+5 Minutes	+10 Minutes	+20 Minutes	Average	% 0 to 5 min
207	63	21	4	4.6	69.9%

\*CODE 3 and CODE 2 incidents are included in the total count of incidents and the average Enroute to Onscene Time.

\*Incidents are shown based on the primary response area for the incident location. This does not represent total response times for all units only the first unit in.

**Incidents by Battalion, Station and Jurisdiction**

			False Alarm	Medical	Other Fire	Other Misc	Public Service Assist	Res Fire	Rescue	Ringing Alarm	Standby	Traffic Collision	Vehicle Fire	Wildland Fire	Total
<b>Battalion 14</b>	Station 16 Pedley	City of Jurupa Valley	0	3	0	0	0	0	0	0	0	0	0	0	3
	<b>Station Total</b>		0	3	0	0	0	0	0	0	0	0	0	0	3
	Station 18 West	City of Jurupa Valley	2	10	0	0	0	0	0	0	0	4	0	0	16
	<b>Station Total</b>		2	10	0	0	0	0	0	0	0	4	0	0	16
	Station 38 Rubidoux	City of Jurupa Valley	29	191	6	2	9	3	2	1	5	24	2	3	277
	<b>Station Total</b>		29	191	6	2	9	3	2	1	5	24	2	3	277
	<b>Battalion Total</b>		31	204	6	2	9	3	2	1	5	28	2	3	296
	<b>Grand Total</b>		31	204	6	2	9	3	2	1	5	28	2	3	296

**Incidents by Jurisdiction**

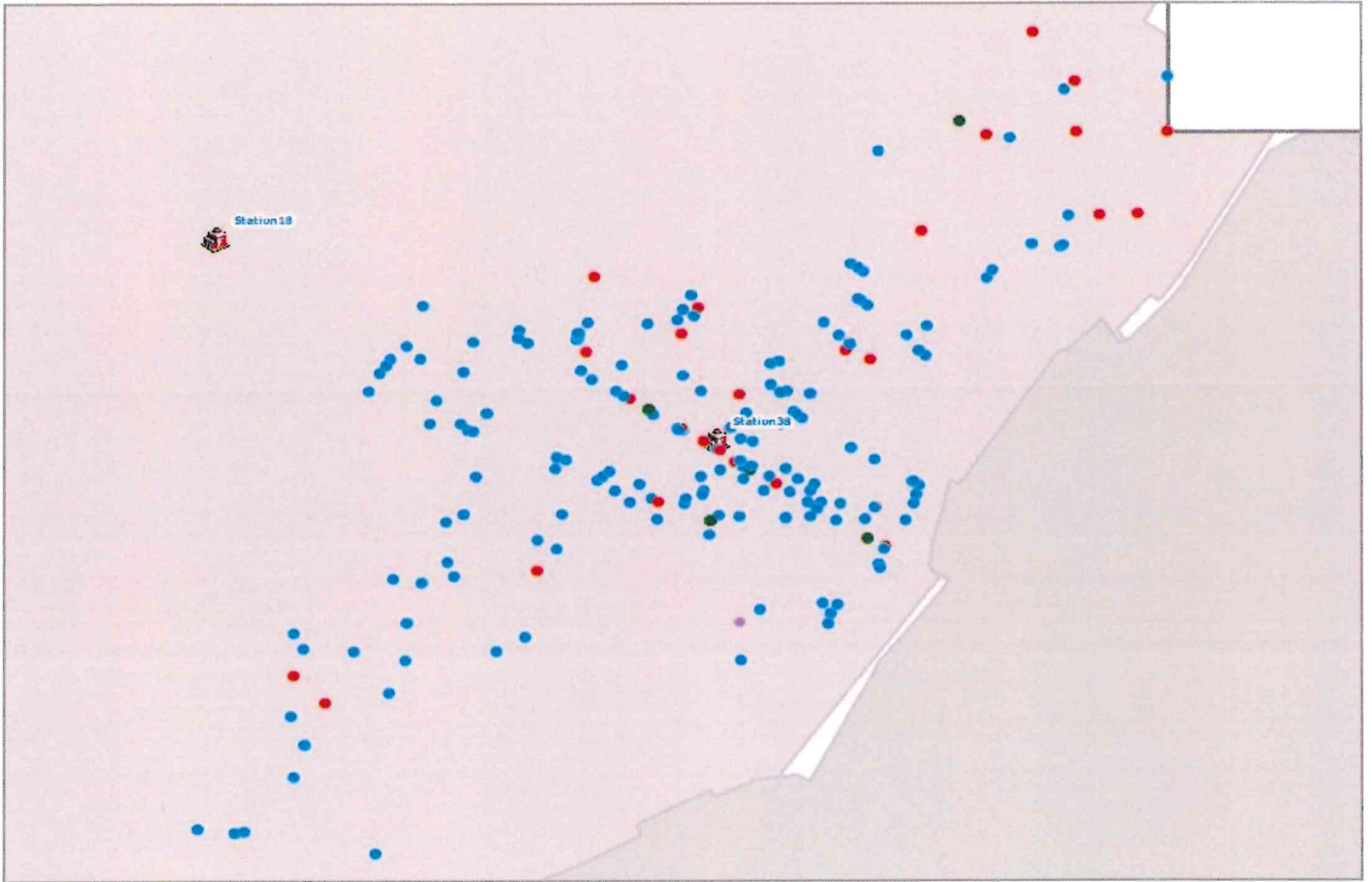
	False Alarm	Medical	Other Fire	Other Misc	Public Service	Res Fire	Rescue	Ringling Alarm	Standby	Traffic Collision	Vehicle Fire	Wildland Fire	Total
City of Jurupa Valley	31	204	6	2	9	3	2	1	5	28	2	3	296
<b>Grand Total</b>	<b>31</b>	<b>204</b>	<b>6</b>	<b>2</b>	<b>9</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>5</b>	<b>28</b>	<b>2</b>	<b>3</b>	<b>296</b>



**Incidents by Supervisorial District - Summary**

	<b>DISTRICT 2 KAREN SPIEGEL</b>	<b>Grand Total</b>
False Alarm	31	31
Medical	204	204
Other Fire	6	6
Other Misc	2	2
Public Service Assist	9	9
Res Fire	3	3
Rescue	2	2
Ringing Alarm	1	1
Standby	5	5
Traffic Collision	28	28
Vehicle Fire	2	2
Wildland Fire	3	3
<b>Total</b>	<b>296</b>	<b>296</b>

MONTH = 12 and YEAR = 2024 and SPECIAL= 'Rubidoux CSD'



Legend

- Fire
- Medical
- Hazard
- Other Misc
- Haz Mat
- PSA
- ▭ Riverside County
- ▨ Reservations
- 🚒 Fire Station
- 🎰 Casinos



Riverside County Fire GIS

Last Updated 1/2/2025 2:0

\*Incidents are shown based on the primary response area for the incident location. This does not represent total response times for all units only the first unit in.

7. **REPORTS** (continued)

C. General Manager and Staff Reports / Updates

**8. ACTION / DISCUSSION ITEMS**

- A. **DM 2025-04:** Consider Proposal for Internal Piping Upgrades from Filtronics, Inc. for Leland Thompson Water Treatment Facility Manganese Vessels #1 and #2



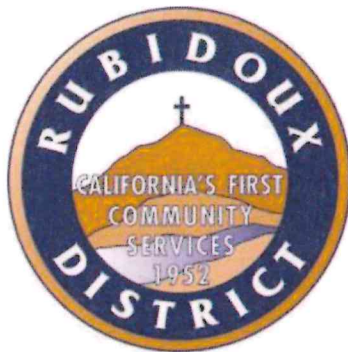
# Rubidoux Community Services District

## Board of Directors

Hank Trueba Jr., President  
Diana Leja, Vice President  
Bernard Murphy  
John Skerbelis  
Leslie Altamirano

## General Manager

Brian R. Laddusaw



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Water Resource Management    Refuse Collection    Street Lights    Fire / Emergency Services    Weed Abatement

**DIRECTORS MEMORANDUM 2025-04**

January 16, 2025

**To:** Rubidoux Community Services District  
Board of Directors

**Subject:** Consider Proposal for Internal Piping Upgrades from Filtronics, Inc. for Leland Thompson Water Treatment Facility Manganese Vessels #1 and #2

## **BACKGROUND:**

The Leland Thompson Water Treatment Facility (“Thompson Facility”) was designed and constructed with manganese filter vessels to manage elevated manganese concentrations in water from Wells 8, 18, and 1A. These filter vessels currently use PVC piping for internal water distribution. Over time, issues have arisen due to the aging and potential structural weaknesses of the PVC piping, leading to inefficiencies in the water treatment process.

In 2024, the Board of Directors (“Board”) approved the rehabilitation of manganese filter vessel #3 following the identification of structural failures in its internal PVC piping. The Board authorized repairs using 304 stainless steel components, which were successfully completed by ERS Environmental Services (“ERS”). The transition to stainless steel significantly enhanced the vessel's durability and performance, setting a precedent for addressing similar issues in other manganese filter vessels.

To continue improving the reliability and longevity of the Thompson Facility’s manganese treatment infrastructure, District staff reached out to Filtronics, Inc. (“Filtronics”), the original equipment manufacturer, for a proposal to upgrade the internal piping of manganese filter vessels #1 and #2. Filtronics proposed replacing the internal PVC components with 304 stainless steel components to enhance durability, structural integrity, and performance (Attachment 1). The internal piping components are proprietary to Filtronics and are only available through them, making this a sole-source procurement (Attachment 2). This purchase is compliant pursuant to the District’s Procurement Policy Section 1040.21 Sole and Single Source Purchases Subsection (d) which notes a sole source purchase is authorized when the “item is a component or replacement part for which there is no

commercially available substitute, and which can be purchased only from the manufacturer or authorized distributor.”

### **Budget Considerations**

The total cost of the piping, including tax, is \$98,171.03, or just under \$50,000 per vessel. These necessary piping repairs were not anticipated during the preparation of the Fiscal Year (“FY”) 2024|2025 Water Fund Budget. Traditionally, similar costs would be allocated to Line 19, ‘R & M Water System.’

To appropriately fund this unforeseen repair cost without impacting the budget capacity for other water system repairs, staff recommends amending the budget. Specifically, \$100,000 should be reallocated from Line 24, ‘Operating Expense: Treatment Media,’ within the FY 2024|2025 Water Fund Budget. This amendment would allocate these funds to the repairs and maintenance account outlined above.

If approved, this amendment will result in an increase in Line 19, ‘R & M Water System,’ from \$523,000 to \$623,000, and a reduction in Line 24, ‘Operating Expense: Treatment Media,’ from \$1,000,000 to \$900,000.

Currently, Line 24 has a year-to-date balance of approximately \$155,000. This account is reserved for the District’s treatment process media, such as granular activated carbon (“GAC”) and ion exchange (“IX”) resin. Six months into the fiscal year, staff anticipates that even with the proposed reduction in Line 24 by \$100,000, there will still be sufficient funds to cover the treatment media requirements for the remainder of the fiscal year.

**RECOMMENDATION:**

Staff recommends the Board of Directors consider the following:

1. Accept the proposal from Filtronics, Inc. for the internal piping upgrades for manganese filter vessels #1 and #2 at the Thompson Facility.
2. Issue a purchase order to Filtronics, Inc. in the amount of \$98,171.03.
3. Amend the FY 2024|2025 Water Fund Budget as follows:
  - a) Line 19 'R & M Water System' from \$523,000 to \$623,000.
  - b) Line 24 'Operating Expense: Treatment Media' from \$1,000,000 to \$900,000.

Respectfully,



BRIAN R. LADDUSAW, CPA  
General Manager

Attachment(s):

1. Filtronics Proposal (dtd. January 14, 2025)
2. Sole Source Letter (dtd. December 17, 2024)



3726 E. Miraloma Ave.  
Anaheim, CA 92806  
Phone: 714-630-5040  
Fax: 714-630-1160  
[www.filtronics.com](http://www.filtronics.com)

---

14 January 2025

Rubidoux CSD  
3590 Rubidoux Blvd.  
Jurupa Valley, CA 92509

Attn: Jesus Aguirre

QUOTATION NO.: 241217-2A  
OUR REF: PRO 241217-2 Rubidoux CSD 304SS Laterals

**PROJECT: Fabrication of New Internal Filter Piping/Headers  
Filters #1 and #2  
Leland Thompson Water Treatment Plant**

Dear Mr. Aguirre:

We are pleased to offer our proposal covering the following equipment:

**FILTER INTERNALS**

- Two sets, filter internal equipment for Model FH-16 Filter including:
- Lower header pipe, 12" diameter, 304 stainless with tees and baffle.
- Laser cut slotted 304 Stainless Steel laterals for Model FH-16 filter.
- Upper header distribution pipe, 12" diameter 304 stainless steel pipe with distribution drilled outlet for Model FH-16 filter.
- Two sets, lateral anchoring hardware of 304 stainless steel with Unistrut, anchor bolts, clamps, nuts, bolts, and washers.
- Four each, 12" diameter Victaulic type coupling, epoxy coated, with 304 stainless steel nuts, bolts, and washers.
- Four each, oval gaskets for access hatches
- Two each, gasket blanks for 20" round hatches at tank ends.

**THIS PROPOSAL DOES NOT INCLUDE**

1. Installation
2. Concrete, concrete design, or anchoring calculations.
3. Freight
4. Any other item not specifically mentioned in this proposal.

**THIS PROPOSAL DOES INCLUDE**

1. On-site installation assessment, no more than one day on one trip
2. On-site testing, verification of backwash through empty filter prior to media installation.



**SHIPMENT**

- Six to eight weeks **after receipt of deposit(s)**.
- Approximate shipping weight: 3,000
- Partial shipments accepted.

**TERMS**

- To approved credit accounts
  - \* 50% with order, Net 15 days
  - \* 50% upon shipment, or available on our dock for shipment
- F.O.B. Irvine, California
- Price does not include any applicable taxes
- This proposal valid for thirty (30) days

PRICE-----\$91,110.00  
Sales Tax (7.75%) ----- 7,061.03  
**Total: \$98,171.03**

Regards,

**FILTRONICS, INC.**

*Michael Hoyer*

Michael Hoyer  
VP Operations

**ACCEPTED:** Rubidoux CSD  
**PROJECT:** Filter Internals Upgrade

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

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

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

**TRADE SECRETS NOTICE: ALL RIGHTS RESERVED**

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An unpublished work.

## GENERAL TERMS OF SALE

Filtronics, Inc. hereinafter "Seller" is an original equipment manufacturer. The equipment sold contains proprietary, trade secrets of Seller and shall not be disclosed.

1. **Terms of Payment:** All invoices are due and payable fifteen (15) days from the date of the invoice. No discounts are authorized, unless otherwise specified.
2. **Shipping Point:** All prices are F.O.B. Seller's plant in Anaheim, California, unless otherwise expressly provided in this contract.
3. **Delivery:** The shipping dates as specified above are approximate; are subject to the Seller's prompt receipt from the Buyer of all necessary information and are subject to the Seller's current production schedules. Seller shall not be liable in any respect for failure to ship or for delay in shipment where such failure or delay shall be due in whole or in part to shortage or curtailment of materials, labor, transportation or utility services, or due to any labor or production difficulty in Seller's plant or those of its suppliers, or to any cause beyond Seller's control.
4. **Failure to Reject:** Before the materials covered hereby are used and within five (5) days of receipt of shipment, the Buyer shall notify the Seller, in writing, of any defects or omissions. Failure to so notify the Seller shall constitute an irrevocable acceptance of the goods.
5. **Taxes:** Sales, use, excise, property or similar taxes arising out of or relating to this order or the goods delivered are not included in the price, except as otherwise specifically stated in the invoice. All such taxes are the responsibility of the Buyer. The Seller shall have the right at any time to separately bill the Buyer for any such tax which the Seller may be called upon to pay, and the Buyer shall be obligated to pay Seller such amount.
6. **Force Majeure:** Neither party shall be liable for any failure or delay in performance under this Agreement (other than for delay in the payment of money due and payable hereunder) to the extent said failures or delays are proximately caused by causes beyond that party's reasonable control and occurring without its fault or negligence, including, without limitation, failure of suppliers, subcontractors, and carriers, or party to substantially meet its performance obligations under this Agreement, provided that, as a condition to the claim of non-liability, the party experiencing the difficulty shall give the other prompt written notice, with full details following the occurrence of the cause relied upon. Dates by which performance obligations are scheduled to be met will be extended for a period of time equal to the time lost due to any delay so caused.
7. **Warranty:** Seller guarantees equipment of its own manufacture to be free from defects in material and workmanship for a period of 18 months from the invoice date or 12 months from the date of installation, whichever is sooner, and when the equipment is paid for, properly operated and maintained. No warranty if given for products or components which have been subject to misuse, improper installation, corrosion, or which have been disassembled, modified, or repaired by unauthorized persons. No other express or implied warranty is given and THE SELLER MAKE NO WARRANTY OF MERCHANTABILITY AND THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.
8. Seller's liability, if any, shall be limited to the value of the product as supplied to the Buyer. The Seller at its option may repair or replace any equipment found to be defective. All shipping and field warranty inspection costs shall be paid by the Buyer. It is expressly agreed that the remedy provided in this section shall be the exclusive remedy against the Seller for all such claims of any kind. In no event, whether as a result of breach of contract or warranty or alleged negligence, or of any other claim or any other kind shall the Seller be liable for special or consequential damages including, but not limited to loss of profits or revenue, loss of use of the equipment or any associated equipment, cost of capital, cost of substitute equipment, facilities or services, down time costs, or claims of customers of the purchasers for such damages. The Buyer assumes all responsibility for loss or damages resulting from the handling or use of the material or goods covered hereby.
9. **Technical Advice:** Seller, upon Buyer's request, may furnish technical advice with reference to the use of the material sold hereunder, if and to such extent as Seller has such advice conveniently available; but it is expressly agreed that there is no obligation to furnish any such advice, and that if any advice or assistance is furnished, which will be without charge, it shall be given and accepted at Buyer's risk, and Seller shall not be responsible or liable for the advice or assistance given or results thereof.
10. **Entire Contract:** This Agreement constitutes the entire contract of sale and purchase of the goods named herein. No modification hereof shall be of any force or effect unless in writing and signed by the party claimed to be bound thereof.
11. **Waiver:** The failure of the Seller to insist, in any one instance or more, upon the performance of any of the covenants or conditions of this contract, or to exercise any right or privilege herein conferred, shall not be construed as thereafter waiving any such covenants, conditions, rights or privileges, but the same shall continue and remain in full force and effect.
12. **Financial Responsibility:** If payment is not made in accordance with the terms of this agreement, or if the Seller shall have any doubt at any time of Buyer's financial responsibility, Seller may withhold delivery of goods or services called for hereunder.
13. **Risk of Loss:** The risk of loss of the goods shall pass to Buyer as soon as the goods are delivered to Buyer at Seller's plant.
14. **Attorney's Fees:** The Buyer shall pay for the Seller's costs of collection of Buyer's debt hereunder, including attorney's fees.
15. **Applicable Law:** This agreement shall be governed by the laws of the State of California and any claim arising hereunder shall, at the Seller's election, be prosecuted in the appropriate court of Orange County, California. The Buyer hereby attorns to the jurisdiction and judgment of the courts of the County of Orange, State of California, and agrees that a judgment of an Orange County, California court shall be enforceable in the jurisdiction in which the Buyer is located.
16. **Late Charges:** Overdue accounts shall bear interest at the rate of one and one half percent (1 ½%) per month until paid.
17. **Acceptance of Shipment:** Acceptance of shipment constitutes acceptance of above terms and co

**Project Memo: Rubidoux CSD**

17 December 2024

To: Jesus Aguirre

From: Mike Hoyer

Re: Internal Piping for Filtronics Model FH-16

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Hello Jesus,

Thank you for your phone call this morning regarding the internal piping for the Model FH-16 filters in operation at your Leland Thompson Water Treatment Facility. This letter is to provide notification that Filtronics, Inc. is the sole source provider of **Electromedia**<sup>®</sup> permanent media systems and the designs of internal piping, controls software, and treatment methodology to integrate these components for contaminant removal in the treatment of water and wastewater in its municipal and industrial water treatment systems.

The use of our **Electromedia**<sup>®</sup> in our custom designed systems significantly reduces the size of the treatment facility and the simplicity of operation. It reduces waste water and increases overall efficiency. These systems require a short, 4 minute backwash cycle, instead of other filtration systems that take 15 minutes or more. This material can filter up to 15 gpm/ft<sup>2</sup> versus 3–5 gpm/ft<sup>2</sup>. Minimal downtime and fast treatment time reduces cost with less time off-line and high productivity.

As a result of our investment in innovation, (methodology, principles and processes, techniques, tools, protocols and documentation) we have created a portfolio of intellectual property rights that include patents, trademarks and copyrights. We are the only organization in the world with the unique technical competence, expertise, experience and proprietary knowledge in the applications using **Electromedia**<sup>®</sup> as well as the design and manufacture of the Filtronics water treatment systems using **Electromedia**<sup>®</sup>.



9. **DIRECTORS COMMENTS AND REQUESTS**

10. **NEXT MEETING**

Thursday, February 6, 2025, at 4:00 p.m.

11. **ADJOURNMENT**