



Tuesday, March 12, 2024 at 1:00 PM  
Valley Sanitary District Board Room  
45500 Van Buren Street, Indio, CA 92201

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**BOARD OF DIRECTORS  
REGULAR SESSION  
AGENDA**

Valley Sanitary District is open to the public and board meetings will be conducted in person. In addition to attending in person, members of the public may view and participate in meeting via the following:

Zoom link: <https://us06web.zoom.us/j/88407137155>

Meeting ID: 884 0712 7155

To address the Board of Directors during the virtual live session via zoom, please email the Clerk of the Board at [hgould@valley-sanitary.org](mailto:hgould@valley-sanitary.org) or, alternatively, during the specific agenda item or general comment period (i.e. non-agenda items), please use the "raise your hand" function in zoom in order to be recognized by the Clerk of the Board in order to provide comments in real time.

The Clerk of the Board will facilitate to the extent possible any email requests to provide oral testimony that are sent during the live meeting. Members of the public may provide Oral testimony in person or during the virtual live session and are limited to three minutes each. To address the Board in person please complete speaker request card located at in the Board Room and give it to the Clerk of the Board.

If you are unable to provide comments during the meeting, written public comments on agenda or non-agenda items may be submitted by email to the Clerk of the Board at [hgould@valley-sanitary.org](mailto:hgould@valley-sanitary.org). Written comments must be received by the Clerk of the Board no later than 11:00 a.m. on the day of the meeting.

1. CALL TO ORDER
2. ROLL CALL
3. PLEDGE OF ALLEGIANCE
4. NEW EMPLOYEE INTRODUCTION
  - *Christopher Lewis, Collections System Technician-in-Training*
5. FEBRUARY AND MARCH EMPLOYEE ANNIVERSARIES

**FEBRUARY**

- *Tito Moreno, Collection System Supervisor - 19 years*
- *Kenny Kepley, Wastewater Operator III - 18 years*
- *Ed Luna, Maintenance Technician III - 4 years*
- *Chris Rahman, Maintenance Technician I - 2 years*

**MARCH**

- *Steve Shepard, Development Service Supervisor -28 years*
- *Octavio Briones, Maintenance Technician I - 1 year*
- *Victoria Nelson, Wastewater Operator II - 1 year*

**6. PRESENTATIONS**

**6.1 CALIFORNIA WATER ENVIRONMENT ASSOCIATION (CWEA) COLORADO RIVER BASIN SECTION (CORBS) AWARDS PRESENTATION**

Recommendation: Discussion

**6.2 P3S CONFERENCE HIGHLIGHTS**

Recommendation: Review

**7. PUBLIC COMMENT**

**8. CONSENT CALENDAR**

*Consent calendar items are expected to be routine and noncontroversial, to be acted upon by the Board of Directors at one time, without discussion. If any Board member requests that an item be removed from the consent calendar, it will be removed so that it may be acted upon separately.*

**8.1 APPROVE THE MINUTES FOR THE BOARD OF DIRECTORS SPECIAL MEETING HELD FEBRUARY 20, 2024**

Recommendation: Approve

**8.2 APPROVE WARRANTS FOR MARCH 12, 2024**

Recommendation: Approve

**8.3 MONTHLY CREDIT CARD REPORT FOR THE PERIOD ENDING JANUARY 31, 2024.**

Recommendation: Approve

**8.4 MONTHLY INVESTMENT REPORT FOR THE PERIOD ENDING JANUARY 31, 2024**

Recommendation: Approve

**8.5 MONTHLY FINANCIAL REPORT FOR THE PERIOD ENDING JANUARY 31, 2024**

Recommendation: Approve

**8.6 DISPOSITION OF 2004 VACTOR 2100 TRUCK THROUGH SALE ON GOVDEALS**

Recommendation: Approve

**9. NON-HEARING ITEMS**

**9.1 AUTHORIZE THE GENERAL MANAGER TO NEGOTIATE AND EXECUTE A CONTRACT WITH GEORGE PETERSON INSURANCE AGENCY FOR THE PURCHASE OF THE BUSINESS PACKAGE POLICY IN AN**

AMOUNT NOT TO EXCEED \$195,832

Recommendation: Approve

- 9.2 AWARD OF CONTRACT TO PREPARE A RECYCLED WATER PROJECT FEASIBILITY STUDY TO HOCH CONSULTANTING, INC. FOR A TWO-YEAR TERM FOR A NOT TO EXCEED AMOUNT OF \$388,415.50.

Recommendation: Approve

- 9.3 REVIEW BOARD MEMBER CANDIDATE APPLICATIONS, CONDUCT INTERVIEWS OF APPLICANTS, AND APPOINT A NEW BOARD MEMBER TO REPRESENT WARD A

Recommendation: Approve

**10. GENERAL MANAGER'S REPORT**

- 10.1 RECEIVE MONTHLY GENERAL MANAGERS REPORT FOR FEBRUARY 2024

Recommendation: Review

**11. DIRECTOR'S ITEMS**

**12. INFORMATIONAL ITEMS**

**13. ADJOURNMENT**

POSTED March 7, 2024  
Holly Gould  
Clerk of the Board  
Valley Sanitary District

**PUBLIC NOTICE**

In compliance with the Americans with Disabilities Act, access to the Board Room and Public Restrooms has been made. If you need special assistance to participate in this meeting, please contact Valley Sanitary District (760) 235-5400. Notification 48 hours prior to the meeting will enable the District to make reasonable arrangements to ensure accessibility to this meeting (28 CFR 35.102-35.104 ADA TITLE II). All public records related to open session items contained on this Agenda are available upon request at the Administrative Office of Valley Sanitary District located at 45-500 Van Buren Street, Indio, CA 92201. Copies of public records are subject to fees and charges for reproduction.



## Valley Sanitary District

**DATE:** March 12, 2024  
**TO:** Board of Directors  
**FROM:** Jason Dafforn, General Manager  
**SUBJECT:** CALIFORNIA WATER ENVIRONMENT ASSOCIATION (CWEA)  
COLORADO RIVER BASIN SECTION (CORBS) AWARDS  
PRESENTATION

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### **Suggested Action**

Discussion

### **Strategic Plan Compliance**

GOAL 1: Fully Staffed with a Highly Trained and Motivated Team

### **Fiscal Impact**

There is no fiscal impact associated with this report.

### **Environmental Review**

This does not qualify as a project for the purposes of CEQA.

### **Background**

Each year the California Water Environment Association (CWEA) Colorado River Basin Section (CORBS) celebrates the achievement of our industry experts through the Annual Awards Banquet. On January 27th, Valley Sanitary District and its employees received six awards.

### **Recommendation**

Staff will be present for recognition of their 2023 CWEA-CORBS awards:

Ray Marroquin - Mechanical Technician Person of the Year

Austin Lopanec - Operator of the Year

Dave Commons - Supervisor of the Year

Community Engagement & Outreach Project of the Year



Safety Plant of the Year  
Platinum Sponsorship



**Valley Sanitary District**

**DATE:** March 12, 2024  
**TO:** Board of Directors  
**FROM:** Anna Bell, Laboratory & Compliance Supervisor and Michael Placencia, Environmental Compliance Technician III  
**SUBJECT:** P3S CONFERENCE HIGHLIGHTS

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**Suggested Action**

Review

**Strategic Plan Compliance**

GOAL 4: Increase Community Understanding and Support

**Fiscal Impact**

There is no fiscal impact from this report.

**Environmental Review**

This item does not qualify as a project defined by the California Environmental Quality Act (CEQA).

**Background**

In addition to his VSD role as Environmental Compliance Technician III, Michael is also the CWEA P3S Committee Vice Chair. During his attendance at the annual P3S Conference held in Anaheim, CA from February 4th through 7th, he held additional roles of Lead-Host and Presenter. On Day 1 of the Conference, Michael was the Lead-Host to the Opening General Session welcoming attendees to the start of the conference. On Day 2, Michael presented in the Pretreatment session track, "Solubility Rules! Existing and Emerging Pretreatment Technologies" as representative of the District. His roles as Lead-Host, Presenter, and attendee contribute to VSD's strategic plan goals of increasing community understanding and support. The conference opportunity provided the vehicle to generate greater support for the industry, increasing regional collaborations through social connections, and expanding public recognition for the District.

**Recommendation**

Receive and file this report as information.

**Attachments**





# IGNITING THE TORCH

FEBRUARY 5-7, 2024 | ANAHEIM, CA

51<sup>st</sup> Annual  
Pretreatment,  
Pollution Prevention,  
And Stormwater  
Conference





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### Conference Committee

CONFERENCE CHAIR

**Edwin Alonzo**  
Town of Apple Valley

PROGRAM LEAD

**Berlinda Blackburn**  
Blackburn Environmental Services

OPENING SESSION LEAD

**Michael Placencia**  
Valley Sanitary District

SOCIAL EVENTS LEADS

**Jonathon Powell**  
OC SAN

**Melissa Soriano**  
OC SAN

FACILITY OF THE YEAR  
AWARDS CO-LEADS

**Casey Fitzgerald**  
City of San José

**Stephen Sealy**  
LACSD

FOG WORKSHOP LEAD

**Angela Zepeda**  
City of Coachella



Cover photos by Kelly Sullivan  
and Sal Ochoa.

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P3S23 Attendees by Kelly Sullivan

## MESSAGE FROM THE CHAIR

# P3S 51st Annual Conference

## Igniting the Torch

EARLY BIRD  
DEADLINE  
JAN. 5



On behalf of CWEA, the P3S Executive Committee, and the Conference Planning Committee, it is our distinct privilege to extend to you a heartfelt invitation to join us at the 2024 Pretreatment, Pollution Prevention, and Stormwater (P3S) Conference, taking place

February 5 to 7 in the vibrant city of Anaheim.

Our world is evolving, presenting us with unprecedented challenges. To effectively fulfill our roles as stewards of the environment, it is imperative that we pool our collective knowledge.

Building connections and collaborating with fellow professionals are pivotal aspects of advancing one's career. **This year, I urge you to expand on this critical facet of our profession by reflecting on the significant themes of leadership and mentorship.**

It is fair to state that many of us could not have navigated the journey of becoming water professionals without the invaluable guidance and mentorship provided by those who paved the way before us.

The central theme for this year's conference is **"Igniting the Torch."** Leadership and mentorship are essential in achieving ambitious objectives, whether it is conducting inspections or safeguarding coastal

waters. Every goal requires the expertise of trained professionals who must be nurtured, guided, and continually educated.

With this spirit in mind, the P3S Executive Committee has designed this conference to offer the ongoing training environmental professionals need, equip them with the tools required for leadership and mentorship roles, and facilitate connections with individuals who have adeptly wielded these tools and held these roles in the past.

I cordially invite you to engage with the P3S Committee. Our gatherings have always been marked by abundant energy, enthusiasm, and a renewed sense of purpose as environmental professionals come together.

I wholeheartedly encourage you to find ways to participate in this conference and to inspire your peers, colleagues, and coworkers to do the same. This conference caters to both seasoned professionals and those new to the field. Join us on Tuesday, February 6 for the P3S Committee Meeting at 9:50 a.m. at the P3S Conference and embark on your journey as an environmental leader.

**We look forward to seeing you in Anaheim!**

Best Regards,

**EDWIN ALONZO**

CWEA P3S Committee Chair  
Town of Apple Valley

## Schedule-at-a-Glance

### MONDAY

7:30 - 8:30 a.m.	<b>Registration &amp; Continental Breakfast</b>
8:30 - 11:30 a.m.	<b>Opening General Session</b> sponsored by <b>Patriot</b>
11:30 - 12:15 p.m.	<b>Time with Exhibitors</b>
12:15 - 1:20 p.m.	<b>Facility of the Year Awards Lunch</b>
1:30 - 3:20 p.m.	<b>Technical Sessions</b>
3:20 - 3:50 p.m.	<b>Expo Refreshments</b>
3:50 - 4:40 p.m.	<b>Technical Sessions</b>
4:40 - 6:30 p.m.	<b>Networking with the Partners</b>

### TUESDAY

7:00 - 8:00 a.m.	<b>Breakfast with Exhibitors</b>
8:00 - 9:50 a.m.	<b>Technical Sessions</b>
9:50 - 10:50 a.m.	<b>P3S Committee Meeting</b>
9:50 - 10:50 a.m.	<b>Expo Refreshments</b>
10:50 - 11:40 a.m.	<b>Technical Sessions</b>
11:45 - 12:50 p.m.	<b>Order of the Silver Cover Lunch</b>
1:00 - 1:30 p.m.	<b>Dessert with Exhibitors</b>
1:30 - 3:20 p.m.	<b>Technical Sessions</b>
3:20 - 3:50 p.m.	<b>Networking with the Exhibitors</b>
3:50 - 4:40 p.m.	<b>Technical Sessions</b>
6:00 - 10:00 p.m.	<b>Signature Event &amp; Tour</b>

### WEDNESDAY

7:30 - 8:00 a.m.	<b>Continental Breakfast</b>
8:00 - 12:05 p.m.	<b>Technical Sessions</b>
9:00 - 11:00 a.m.	<b>Technical Tour</b>
12:05 - 1:20 p.m.	<b>P3S Grant Recipients Lunch</b>
1:30 - 3:20 p.m.	<b>Technical Sessions</b>

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# Networking Events

**Networking With the Partners**  
Monday, February 5  
4:40 - 6:30 p.m.

Enjoy an assortment of hot appetizers and refreshing beverages at this year's annual networking event. Connect with fellow professionals, engage with exhibitors, rekindle old friendships, and stand a chance to win fantastic door prizes.

Claim your drink tickets from any of CWEA's dedicated exhibitors. **It's a complimentary treat for all attendees.** Don't miss out on the fun!

**P3S Committee Meeting**  
Tuesday, February 6  
9:50 - 10:50 a.m.

Interested in learning more about leadership roles within the P3S Committee? Join this welcoming and inclusive meeting to find out what the committee is planning. Let the P3S Committee leaders know if you're interested in getting involved.

**Free and everyone is welcome.**



Attendees enjoying the networking events at P3S23. (Kelly Sullivan)



**CWEA**

**P3S SIGNATURE EVENT**



Go behind the scenes at a massive water park

# Great Wolf Lodge Water Park

Tuesday, February 6 • 6:00 p.m.  
Ticketed event \$90 • Includes tour and dinner  
12681 Harbor Blvd, Garden Grove, CA 92840

Photo by Great Wolf Lodge

# Opening Session Speaker Bios

Monday, February 5 | 8:30 - 11:30 a.m.

The Opening General Session is focused on inspiring the next generation of water professionals by “Igniting the Torch” of mentorship and leadership.

OPENING SESSION  
SPONSORED BY



**Tracy Quinn** serves the President and CEO of Heal the Bay, leading the dynamic team of scientists, policy experts, outreach specialists, and educators in pursuit of its clean water mission. Tracy has dedicated her career to improving water quality in our rivers and ocean and ensuring safe, reliable, and affordable water for all Californians.



**Derek Marshall** is an activist and community organizer who is dedicated to bringing resources back to his district through a Marshall Plan for the Desert, a vision aimed at creating jobs in California’s 23rd district with a Renewable Energy Corridor. He wants to bring people together by building relationships that ensure the working class gets a larger piece of the economic pie.



**Rob Thompson** is the General Manager (GM) for the Orange County Sanitation District (OC San). Mr. Thompson has been with OC San since 1995 serving in many capacities for OC San including Manager of the Process Controls Division to oversee the maintenance, installation and programming of OC San’s SCADA system and programmable logic controllers; Engineering Manager overseeing the instrumentation shops, electrical shops and power generation plants; and Engineering Manager overseeing Asset Management and Engineering Planning, and Director of Engineering.



**Randy Korgan** is a thirty-year Teamster, who first became involved in the Labor Movement by volunteering his time as an organizer at the age of twenty-one. As an advocate for working people, he has helped thousands organize, mobilize, and achieve bargaining rights ever since. He currently serves as the Secretary-Treasurer of Teamsters Local 1932 and the International Brotherhood of Teamsters National Director for Amazon.



Win door prizes during the popular  
**P3S24 Opening Session trivia contest.**

*Opening Session Lead*  
**MICHAEL PLACENCIA**  
Environmental Protection and  
Resource Recovery Leader  
Valley Sanitary District

# PROVIDING INNOVATIVE WATER SOLUTIONS AND SERVICES

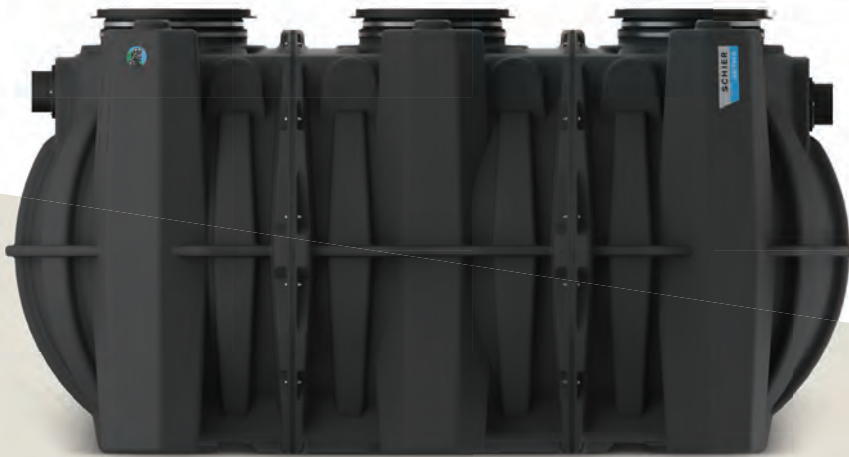
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# Conference Lunches



## FACILITY OF THE YEAR AWARDS

Casey Fitzgerald and Stephen Sealy  
P3S Awards Leads

12:15 – 1:20 p.m.



## ORDER OF THE SILVER COVER

Joe Lucia  
Past P3S Chair

11:40 a.m. – 12:50 p.m.



## P3S GRANT RECIPIENTS

Jason Finn  
Grants Lead

12:05 – 1:20 p.m.

Conference lunches are included in your registration. Please RSVP for lunches to help us avoid food waste.



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# Patriot Environmental Tour



## How Centralized Waste Treatment Facilities Work

**Wednesday, February 7**  
**9:00 - 11:00 a.m. • Tickets are \$25**

Get an inside look at Patriot Environmental’s centralized waste treatment facility.

Regulated under 40 CFR 437 subpart D it receives and treats non-hazardous waste liquids.

They have a permitted flow rate of 100,000 gallons per day. Since 2016, Patriot Environmental has successfully treated and discharged over 50 million gallons of industrial wastewater.

The tour will cover aspects of how Patriot Environmental processes and treats the different types of waste streams received.

Capacity is limited so register soon. Attendees must meet the bus promptly at the hotel. Pick-up is on the side of the building. **See page 14 for pick-up spot.**

*Technical Tour Lead*  
**JASON FINN**  
 Industrial Waste Inspector  
 LACSD



(Photos by Patriot Environmental)

# Technical Sessions

MONDAY			
7:30 – 8:30 a.m.	<b>REGISTRATION &amp; CONTINENTAL BREAKFAST</b> Expo Area • Catalina Foyer		
8:30 – 10:00 a.m.	<b>OPENING GENERAL SESSION PART 1</b> Santa Rosa Ballroom		
10:00 – 10:15 a.m.	<b>BREAK</b> Expo Area • Catalina Foyer		
10:15 – 11:30 a.m.	<b>OPENING GENERAL SESSION PART 2</b> Santa Rosa Ballroom		
11:30 a.m. – 12:15 p.m.	<b>TIME WITH EXHIBITORS</b> Expo Area • Catalina Foyer		
12:15 – 1:20 p.m.	<b>LUNCH &amp; FACILITY OF THE YEAR AWARDS</b> Santa Rosa Ballroom		
TRACKS	STORIES FROM THE INSPECTORS	WATER BOARD MS4 PERMITS REGIONAL CHALLENGES	REGIONAL WATER AUTHORITY FACILITIES
LEAD	Mary Thompson City of Santa Barbara	Jason Finn LACSD	Jonathon Powell OC San
LOCATION	Catalina A	Catalina B	Catalina C
1:30 – 2:20 p.m.	<b>Sun, Sea, and Pretreatment Lessons Learned in the City of Santa Barbara</b> Mary Thompson City of Santa Barbara	<b>Region 8 MS4 Updates</b> Nam Nguyen SWRCB Regional Water Board	<b>Pretreatment Information Management System: An Integrated and Automated Database Solution</b> Michael Truong Encina Wastewater Authority
2:30 – 3:20 p.m.	<b>Chemical Fire and Spill ECI 1 - Response and Lessons Learned</b> Anthony Swanson City of Riverside	<b>Region 9 MS4 Updates</b> Dr. Jessica Taylor SWRCB Regional Water Board	<b>Local Limits Perspectives</b> Nubia Donikian and Gorman Lau Larry Walker Associates (LWA)
	<b>Developing a Wastewater Surveillance Sampling Strategy</b> Tamara Vasquez, Nicole Jimenez, City of Riverside		
3:20 – 3:50 p.m.	<b>REFRESHMENTS WITH THE EXHIBITORS</b> Expo Area • Catalina Foyer		
3:50 – 4:40 p.m.	<b>Trust but Verify and Q&amp;A Panel</b> George Muñoz, City of Riverside and Mary Thompson City of Santa Barbara	<b>Please Visit Other Sessions</b>	<b>Regional Agency Perspectives</b> Jerome Jovenal, Brian Finkelstein OC San
4:40 – 6:30 p.m.	<b>FOOD, DRINKS, &amp; DOOR PRIZES</b> <b>NETWORKING WITH THE PARTNERS</b> Expo Area • Catalina Foyer		



**TUESDAY MORNING**


BREAKFAST WITH THE EXHIBITORS Expo Area • Catalina Foyer				
TRACKS	EPA UPDATES	LEADERSHIP	PRETREATMENT	ENHANCED SOURCE CONTROL WORKSHOP
7:00 – 8:00 a.m.	Carley Craig and Nattapong Pengphol LACSD	Shannon Simmers City of Riverside	Wendy Hsiao City of Burbank	Kristopher McGinnis LACSD
LEAD				
LOCATION	Catalina C	Catalina B	Catalina A	Santa Rosa B
8:00 – 8:50 a.m.	<b>Introduction and Overview of EPA Pretreatment Regulations and Updates</b> Amelia Whitson, Jim Polek, EPA Region 9 and Chuck Durham, PG Environmental	<b>Overview of CWEA Mentoring Program</b> Shannon Simmers City of Riverside	<b>Dental Facility Inspections</b> Tracy Wyhlidko City of Redding	<b>NWRI Enhanced Source Control Expert Panel Report</b> Dr. George Tchobanoglous, UC Davis and Kevin Hardy, NWRI
9:00 – 9:50 a.m.	<b>Pretreatment Standards: Categorical Regulations</b> Amelia Whitson, Jim Polek, EPA Region 9 and Chuck Durham, PG Environmental	<b>Cracking the Millennial Code</b> Ryan Vet ryanvet.com	<b>Solubility Rules! Existing and Emerging Pretreatment Technologies</b> Michael Placencia Valley Sanitary District	<b>Source Control Success Stories</b> Mark Kawamoto OC San  <b>Overview of LACSD’s Industry Advisory Council</b> Liana Olivas LACSD
9:50 – 10:50 a.m.	<b>P3S COMMITTEE MEETING</b> Santa Rosa A			
9:50 – 10:50 a.m.	<b>REFRESHMENTS WITH EXHIBITORS</b> Expo Area • Catalina Foyer			
10:50 – 11:40 a.m.	<b>Pretreatment Standards: Prohibitions and Local Limits</b> Amelia Whitson, Jim Polek, EPA Region 9 and Chuck Durham, PG Environmental	<b>A Woman’s Perspective in a Male-Dominated Industry</b> Jaclyn Alm Jurupa Community Services District	<b>The New EPA Rules Your IPP Will Be Required to Add by 2025</b> Eric Snell SwiftComply	<b>Enhanced Source Control Experts Panel: Ask Us Anything</b> Moderator: Steve Jepsen Clean Water SoCal
11:40 a.m. – 12:50 p.m.	<b>LUNCH &amp; ORDER OF THE SILVER COVER JOE LUCIA, P3S PAST CHAIR</b> Santa Rosa B			
1:00 – 1:30 p.m.	<b>DESSERT WITH EXHIBITORS</b> Expo Area • Catalina Foyer			



**18.1 CONTACT HOURS AVAILABLE**  
**EVENT CONTACT HOURS**  
**AUTOMATED**

All attendees will be scanned upon entering the session room. To earn contact hours, you must attend the full session. One contact hour will be issued per 50-minute session. You will be scanned out if you leave prior to the session end time.

TUESDAY AFTERNOON

TRACKS	EPA UPDATES	COMMUNICATION	PRETREATMENT INSPECTOR TOOL BELT TRAINING	ENHANCED SOURCE CONTROL WORKSHOP
LEAD	Andrew Marin LACSD	Lanae Barragan LACSD	Joseph Lara Town of Apple Valley	Kristopher McGinnis LACSD
LOCATION	Catalina C	Catalina B	Catalina A	Santa Rosa B
1:30 - 2:20 p.m.	<b>Pretreatment Compliance Audits and Inspections</b> Amelia Whitson, Jim Polek, EPA Region 9 and Chuck Durham, PG Environmental	<b>Networking Alchemy: Forging Transformational Relationships</b> Chandler Letulle JCSD	<b>Inflow and Infiltration</b> Latif Laari VVRWA Elizabeth Caliva Dudek	 <b>Roundtable Discussions</b> Small group discussions on hot topics. See topics list below.
2:30 - 3:20 p.m.	<b>EPA Updates: Inspector 101</b> Amelia Whitson, Jim Polek, EPA Region 9 and Chuck Durham, PG Environmental	<b>Leadership Coachella Valley</b> Ivan Monroy CVWD	<b>PFAS - How Big of a Deal is It Really?</b> John Shaffer, EEC <b>7 Habits of Effective PFAS Source Trackers</b> Mary Kate Forkan Carollo Engineers	
3:20 - 3:50 p.m.	<b>NETWORKING BREAK WITH EXHIBITORS</b> Expo Area • Catalina Foyer			
3:50 - 4:40 p.m.	<b>EPA Updates: Inspector 101</b> Amelia Whitson, Jim Polek, EPA Region 9 and Chuck Durham, PG Environmental	<b>The Yellow Cake Principle: Your Recipe for Influence and Success</b> Roger Grannis GrannisGroup	<b>Plan Check</b> George Muñoz City of Riverside	<b>Optimizing Water Reuse Projects: Leveraging P3S Professionals for Enhanced Source Control</b> Corey Bracken City of Santa Monica
6:00 p.m.	<b>SIGNATURE EVENT AND TOUR - GREAT WOLF LODGE</b>			



**LIGHTING SOLUTIONS FOR WATER TREATMENT APPLICATIONS**

**HOLOPHANE**

ESCP WORKSHOP ROUNDTABLE TOPICS
Regional Board 9 San Diego <b>Fisayo Osibodu and Brandon Bushnell</b>
Communications & Public Outreach <b>Jennifer Cabral, OC San</b>
Industrial User Inspections <b>Jason Finn, LACSD</b>
Pretreatment Permit Denials <b>Katie Greenwood, SOCWA</b>
Recent ESCP Experience for IPR <b>Mary Kate Forkan and Dr. Farzaneh Shabani, Carollo</b>
Local Limits <b>Peter Carlstrom, LACSD</b>
PFAS Source Control <b>Steven Lajkowicz, LACSD</b>
And more!



**WEDNESDAY**



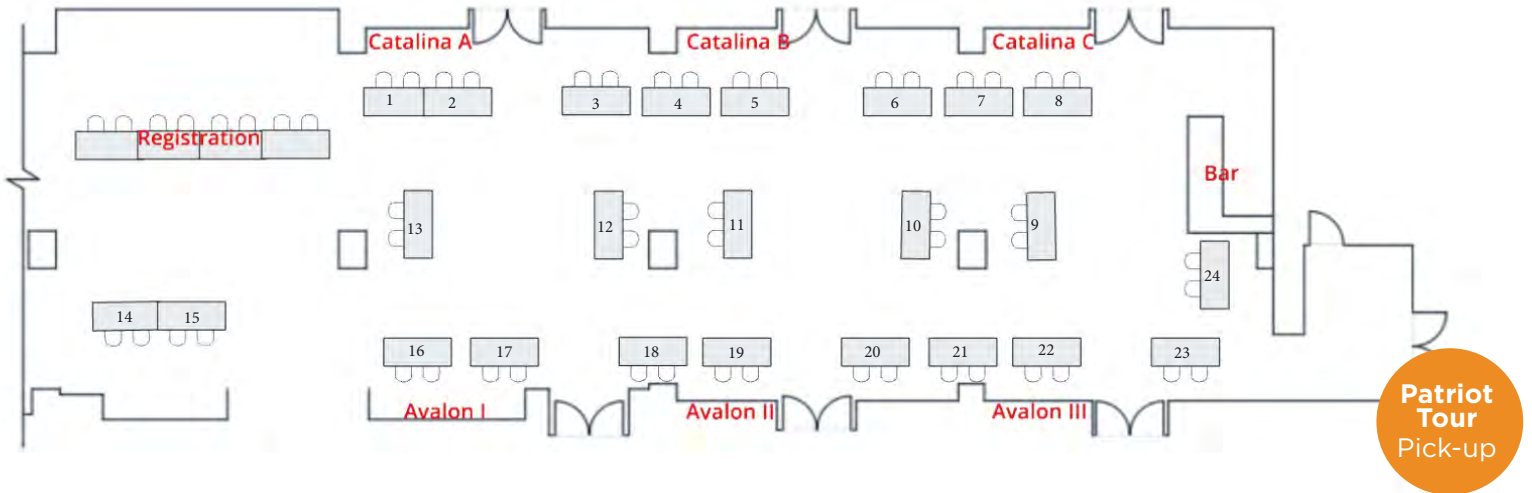
7:30 – 8:00 a.m.	<b>CONTINENTAL BREAKFAST</b> Catalina Foyer		
<b>TRACKS</b>	<b>STORMWATER</b>	<b>ECI TEST PREP</b>	<b>FOG WORKSHOP</b>
LEAD	Kai Hwang LA Sanitation & Environment	George Muñoz City of Riverside	Angela Zepeda City of Coachella
LOCATION	Catalina A	Catalina C	Catalina B
Sponsored by <b>SwiftComply</b>			
8:00 – 8:50 a.m.	<b>Construction General Permit</b> Shanna Delgado CASC Engineering and Consulting	<b>Test Taking Strategies</b> Dr. Ramzi Mamood Office of Water Programs Sac State	<b>Conducting Onsite FOG Inspections</b> Sam Mcleod BMP Compliance Group
9:00 – 9:50 a.m.	<b>Industrial General Permits &amp; SB205</b> Melanie Sotelo CASC Engineering and Consulting	<b>Environmental Compliance Inspector (ECI) Test Prep Grade 1</b> Shannon Simmers City of Riverside and Kent McIntosh Retired	<b>Inspection Tools</b> Sam Mcleod BMP Compliance Group
9:50 – 10:15 a.m.	<b>BREAK</b> Catalina Foyer		
10:15 – 11:05 a.m.	<b>Stormwater Pollution Prevention Plans</b> Samantha Brewer CASC Engineering and Consulting	<b>ECI Test Prep Grade 2</b> Shannon Simmers City of Riverside and Kent McIntosh Retired	<b>Fork-to-Fuel Initiative: Collaboration in Sustainability and Climate Change Activity</b> Trina Lai and Karina Afework LA Sanitation & Environment
11:15 a.m.- 12:05 p.m.	<b>Trash Amendment</b> Melanie Sotelo CASC Engineering and Consulting	<b>ECI Test Prep Grade 3</b> George Muñoz City of Riverside	<b>Flushable Wipes</b> Lara Wyss Responsible Flushing Alliance
12:05 – 1:20 p.m.	<b>LUNCH &amp; P3S GRANT RECIPIENTS JASON FINN, GRANTS LEAD</b> Santa Rosa		
1:30 – 2:20 p.m.	<b>Stormwater Fee Programs: Best Practices from Across the Country</b> Prabha Kumar Black & Veatch	<b>ECI Test Prep Grade 4</b> Kent McIntosh Retired	<b>75 Years Experience Preventing Sewer Spills</b> Ralph Palomares & Ed Peterson El Toro Water District
2:30 – 3:20 p.m.	<b>(Micro)plastics in Stormwater Management</b> Dr. Charlotte Haberstroh Black & Veatch	<b>ECI Test Pre Practice Quiz</b> Shannon Simmers and George Muñoz City of Riverside Kent McIntosh, Retired	<b>Gas Monitor Training: The Big Hole in Confined Space Training</b> Jason Call Gas Monitor Competence Training
3:20 p.m.	<b>CONFERENCE ADJOURNS</b>		

**CWEA**  
MENTORING PROGRAM

Now open for mentor and mentee applications.

[mentor.cwea.org](http://mentor.cwea.org)

# Participating Exhibitors



Company	Booth #
CleanWay Environmental Partners	1
Sage Designs	2
UNITED SALES AGENCY	3
FOG BMP	4
MIFAB	5
International Accreditation Service (IAS)	6
North Bay Waterworks	7
H & R PLUMBING AND DRAIN CLEANING	8
Aqua Natural Solutions	9
SwiftComply	10
Patriot Environmental Services	11
Performance Pipeline Technology	12
WCT Products	13
Clow Valve Company / iHydrant	14
Minicam Inc	15
Schier Products	16
NPDESPro	17
Big Dipper and Trapzilla Grease Interceptors	18
Pipe & Plant Solutions	19
IXOM Watercare	20
Santa Fe Water Systems	21
Pro-Pipe	22
Bioalchemy	23
Holophane Acuity Brands Lighting	24



P3S Attendees catch up in between sessions. Photos by Kelly Sullivan

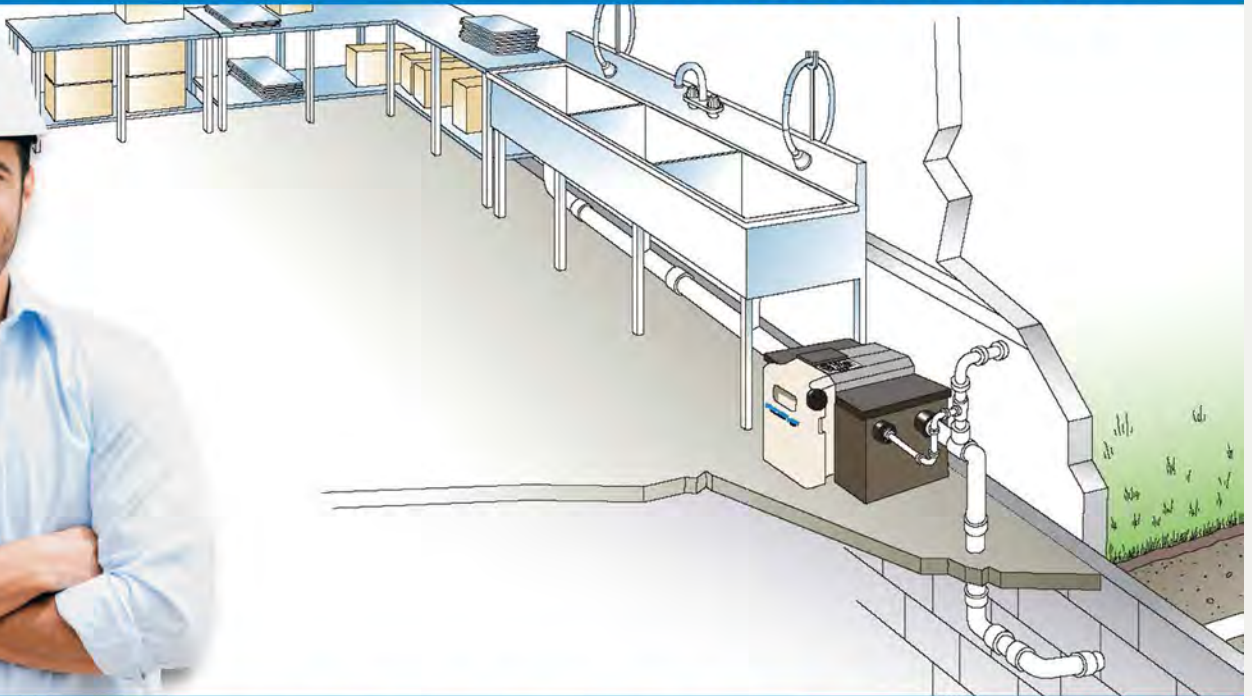


P3S Exhibitors and attendees discuss products in the Expo.



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# VISIT BOOTH #18

**CA CALIFORNIA WATER JOBS**

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[CAWaterJobs.org](http://CAWaterJobs.org)

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CERT PREP

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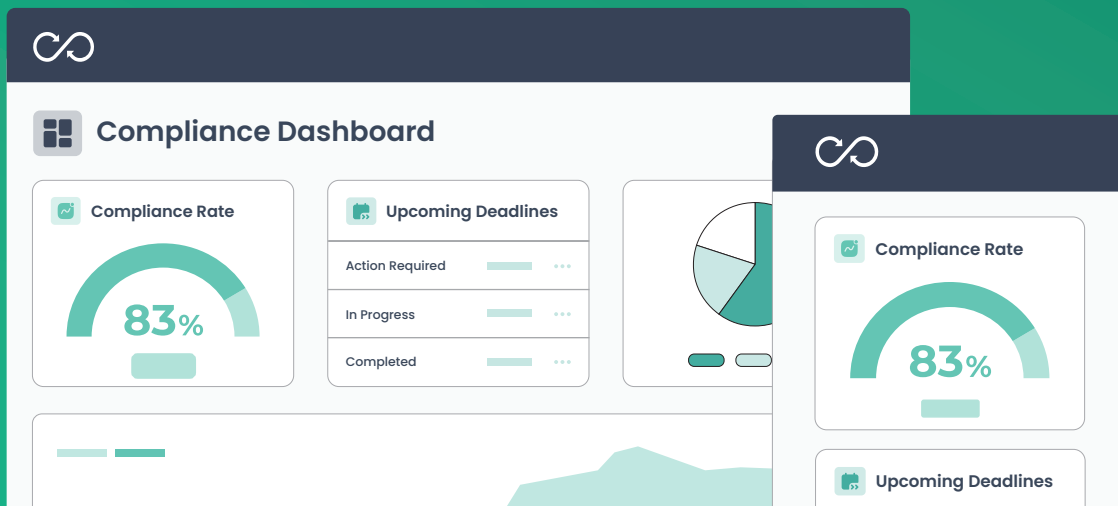
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# Registration Instructions

Before you register yourself or a group of persons online, please read all instructions and ensure you know which events and meals you or each person in your group will attend. You will need your online CWEA password for all those you are registering. Discrepancies may result in delays when you pick up your registration materials at the conference.

## EARLY BIRD REGISTRATION

Register by **January 5, 2024** to receive the discounted conference registration rate. Mailed early-bird registrations **MUST** be post-marked by **January 5, 2024** and accompanied with the appropriate payment to be processed. Save time by registering online!

## MEMBER-DISCOUNTED RATES

CWEA, WEF or CA-NV AWWA memberships qualifies registrant for member- discounted rates, memberships will be verified. The additional cost of a non-member registration rate will be applied toward a one-year CWEA membership unless otherwise stated on registration form.

## ONLINE REGISTRATION

Group and individual online registrations can be processed through CWEA's secure website [CWEA.org](http://CWEA.org). Event fees are driven by 'registrant type' selected during registration. Please select the appropriate registrant type based on number of days you are planning to attend the conference. If you have any questions during the online registration process, contact Member Services at [memberservices@cwea.org](mailto:memberservices@cwea.org) or 510.382.7800 x4.

## RETIRED MEMBERS

Retired Members are eligible for a special rate. CWEA Bylaws state a retired member is any person both retired from and not currently affiliated professionally or technically with the water quality field. Retired members can submit a registration form by mail, fax, or email.

## ACADEMICS & REGULATORS REGISTRATION

Full-time employees of academic institutions are eligible for the Academics rate. Full-time employees of the State Water Board, Regional Water Boards, CalRecycle, US EPA, or Department of Water Resources are eligible for the Regulators rate. To receive this rate, please submit a registration form by mail, fax, or email.

## STUDENT REGISTRATION

Full-time students are eligible for a complimentary registration. A student registration includes lunches and the Monday and Tuesday evening receptions. This registration type is not available online since students must provide verification of current enrollment (nine or more units per semester). Students are asked to submit a registration form by mail, fax, or email.

## EVENTS & MEALS

Most events and lunches are included in the conference registration fee. Please RSVP to help us avoid food waste. There is a fee to attend the Signature Event on Tuesday evening and the technical tour on Wednesday. Guest/spouse tickets are also available.

## SPEAKERS

Conference speakers can register online at a discounted rate and instructions will be emailed to them.

## REGISTRATION PAYMENT

Full payment may be made by credit card, purchase order, personal check or company/agency check. Credit card payments are accepted using the enclosed registration form or through CWEA's secure website ([CWEA.org](http://CWEA.org)). For check or money order payments, please make them payable to "CWEA P3S24." Those who submit payments with an Early Bird Registration fee after **January 5, 2024** will be billed for the difference. Registrations received without full payment or purchase order will not be processed. You must be registered for the conference as an attendee to receive CWEA contact hours.

## CANCELLATION POLICY

Cancellations and substitutions must be received at least 3 business days prior to the date of the event.

Credit Eligibility: To be eligible for credit, a written notice must be received one week prior to the program date.

Cancellation Fee: A 25% cancellation fee will be deducted from the refund amount.

Day of Program Cancellation/No-Show: Cancellations or no-shows on the day of the program will not be eligible to receive a refund or credit.

Refund Process: Refunds, minus the applicable cancellation fee, will be processed within 3 days after receiving the cancellation request once approved.

## SPONSOR AND EXHIBITOR OPPORTUNITIES

For more information about Sponsor and Exhibitor opportunities, please contact Nicole Agnone, Exhibit & Sponsorship Manager, [exhibit@cwea.org](mailto:exhibit@cwea.org), 510.382.7800 x115.

## REGISTRATION QUESTIONS

Contact Member Services at [memberservices@cwea.org](mailto:memberservices@cwea.org) or 510.382.7800 x4.

## SPEAKER QUESTIONS

Contact Melanie Guillen at [mguillen@cwea.org](mailto:mguillen@cwea.org).

## DISCLAIMER

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# REGISTRATION FORM

Register online:  
[p3s24.cwea.org](http://p3s24.cwea.org)

(PLEASE PRINT OR TYPE)

First Name: \_\_\_\_\_ Last Name: \_\_\_\_\_

Agency/Company: \_\_\_\_\_ Title: \_\_\_\_\_

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

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone Number: \_\_\_\_\_ Email: \_\_\_\_\_

Emergency Contact: \_\_\_\_\_ Emergency Phone: \_\_\_\_\_

CWEA MEMBER     WEF MEMBER     CA-NV AWWA MEMBER # ENTER AWWA MEMBER NUMBER HERE

(Must have current membership for member rates.)

**Special Services:** Check here if you require special accommodations to fully participate. Please attach a written description of your needs and return it to CWEA 30 days prior to the conference.

**ADA Requirements:** \_\_\_\_\_

**Dietary Restrictions:** \_\_\_\_\_

## Full Conference Rates

	Early Bird Deadline 1/5/24	Regular Registration Starting 1/6/24
Member	<input type="checkbox"/> \$785	<input type="checkbox"/> \$835
Non-Member (a year of CWEA membership is included as part of registration)	<input type="checkbox"/> \$1,006	<input type="checkbox"/> \$1,056
Retired Member	<input type="checkbox"/> \$380	<input type="checkbox"/> \$380
Academics	<input type="checkbox"/> \$265	<input type="checkbox"/> \$265
Full-Time Student (must provide proof of attendance w/min 9 units for college students)	<input type="checkbox"/> No cost	<input type="checkbox"/> No cost

Are you a speaker? Look for details on how to register in the speaker invitation email. Please don't use this form.

## Two-Day Conference Attendance

Please choose your days of attendance (select any two days):  MONDAY     TUESDAY     WEDNESDAY

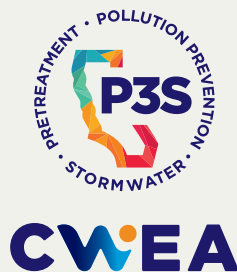
Member	<input type="checkbox"/> \$555	<input type="checkbox"/> \$620
Non-Member	<input type="checkbox"/> \$776	<input type="checkbox"/> \$841
Full-Time Student (must provide proof of attendance w/min 9 units for college students)	<input type="checkbox"/> No cost	<input type="checkbox"/> No cost

## One-Day Conference Attendance

Please choose your day of attendance (select one day):  MONDAY     TUESDAY     WEDNESDAY

Member	<input type="checkbox"/> \$380	<input type="checkbox"/> \$440
Non-Member	<input type="checkbox"/> \$601	<input type="checkbox"/> \$661
Full-Time Student (must provide proof of attendance w/min 9 units for college students)	<input type="checkbox"/> No cost	<input type="checkbox"/> No cost

Registration form continues on the next page...



# REGISTRATION FORM PAGE 2

## PLEASE RSVP FOR MEALS & EVENTS *(help us avoid waste)*

### FREE LUNCHES

- MONDAY
- TUESDAY
- WEDNESDAY

### FREE EVENTS & WORKSHOPS

- Warm Welcome Happy Hour (Sun.)
- Networking with the Partners (Mon.)
- P3S Committee Meeting (Tues.)
- Enhanced Source Control Workshop (Tues.)
- FOG Workshop, sponsored by SwiftComply (Wed.)

## EVENT TICKETS AVAILABLE FOR PURCHASE

### Spouse/Guest Tickets

___ qty. Spouse/Guest Lunch Ticket	<b>\$60</b>
___ qty. Networking with the Partners (Mon.)	<b>\$70</b>
___ qty. Signature Event (Tues.)	<b>\$90</b>
___ qty. Technical Tour (Wed.)	<b>\$25</b>

### Signature Event and Tour

<input type="checkbox"/> Signature Event	<b>\$90</b>
<input type="checkbox"/> Technical Tour	<b>\$25</b>
<b>Tickets Subtotal</b>	<b>\$</b>
<b>GRAND TOTAL</b>	<b>\$</b>



## PAYMENT INFORMATION

For payments by check or money order, make payable to: **CWEA P3S24**

For payments by credit card, please print clearly.

Credit Card:  VISA  MASTERCARD  DISCOVER  AMEX Signature: \_\_\_\_\_

Credit Card Number: \_\_\_\_\_ Expiration Date: \_\_\_\_\_

Name of Account Holder: \_\_\_\_\_ Billing Zip Code: \_\_\_\_\_

*Full payment or purchase order is required to process registrations. Please see the registration instructions for important information about cancellation deadlines and substitutions.*

### REGISTRATION OPTIONS:

1. Register online at [events.cwea.org](https://events.cwea.org)
2. Fax: 510.382.7810
3. Send registration form and payment to:  
**CWEA P3S24**  
 7677 Oakport Street, Suite 1030  
 Oakland, CA 94621-1935

### Registration Assistance

#### MEMBER SERVICES

510.382.7800 option 4

or [memberservices@cwea.org](mailto:memberservices@cwea.org)





**Valley Sanitary District**

**DATE:** March 12, 2024  
**TO:** Board of Directors  
**FROM:** Holly Gould, Clerk of the Board  
**SUBJECT:** APPROVE THE MINUTES FOR THE BOARD OF DIRECTORS SPECIAL MEETING HELD FEBRUARY 20, 2024

---

**Suggested Action**

Approve

**Strategic Plan Compliance**

GOAL 6: Improve Planning, Administration and Governance

**Fiscal Impact**

None

**Environmental Review**

This item does not qualify as a project defined by the California Environmental Quality Act (CEQA).

**Background**

The meeting minutes for the Board of Directors Special Meeting held February 20, 2024.

**Recommendation**

Approve

**Attachments**

[20 Feb 2024 Minutes.edited.docx](#)



**VALLEY SANITARY DISTRICT  
MINUTES OF SPECIAL BOARD MEETING**

February 20, 2024

A regular Board Meeting of the Governing Board of Valley Sanitary District (VSD) was held on Tuesday, February 20, 2024, at 45-500 Van Buren St., Indio, CA 92201.

**1. CALL TO ORDER**

President Canero called the meeting to order at 1:00 p.m.

**2. ROLL CALL**

Directors Present:

Debra Canero, Mike Duran, William Teague

Directors Absent:

Scott Sear

Staff Present:

Jason Dafforn, General Manager; Ron Buchwald, District Engineer; Jeanette Juarez, Chief Administrative Officer; Holly Gould, Clerk of the Board; and Craig Hayes, Best Best & Krieger

**3. PLEDGE OF ALLEGIANCE**

**4. PRESENTATIONS**

4.1 P3 Conference Highlights

---

This item was postponed to a future board meeting.

4.2 Presentation of California Society of Municipal Finance Officer (CSMFO) Operations Budget Excellence Award

---

President Canero presented Jeanette Juarez, Chief Administrative Officer, with the 2024 CSMFO Operating Budget Excellence Award. The Board thanked and congratulated staff on their hard work and achievement.

**5. PUBLIC COMMENT - None**

**6. CONSENT CALENDAR**

- 6.1 Approve the Minutes for the Board of Directors Regular Meeting held January 23, 2024, and the Special Meeting Minutes for January 30, 2023
  - 6.2 Approve Warrants for February 13, 2024
- 

**ACTION TAKEN:**

**MOTION:** Director Duran motioned to approve the consent calendar as presented. Director Teague seconded the motion. Motion carried by the following roll call vote:  
AYES: Canero, Duran, Teague  
NOES: None  
**MINUTE ORDER NO. 2024-3366**

**7. NON-HEARING ITEMS**

- 7.1 Review the Continuing Disclosure Annual Reports for Fiscal Year 2022/23 \$7,540,000 Wastewater Revenue Refunding Bonds, Series 2015, and \$8,848,000 Assessment District No. 2004-VSD (Shadow Hills Interceptor) Limited Obligation Improvement Bond, Series 2005
- 

Jeanette Juarez, Chief Administrative Officer, presented the Continuing Disclosure Annual Reports for the \$7,540,000 Wastewater Revenue Refunding Bonds, Series 2015, and the \$8,845,000 Assessment District No. 2004-VSD (Shadow Hills Interceptor) Limited Obligation Improvement Bonds, Series 2005. Governments or governmental entities (Issuers) issuing bonds must meet specific continuing disclosure standards outlined in Continuing Disclosure Agreements (CDA). Under these contractual agreements, the Issuer commits to provide specific financial information and notices of listed events to the marketplace. Pursuant to the Continuing Disclosure Certificates, the Continuing Disclosure Annual Reports are due by February 15 each year. The District is within its debt ratio and has met all payments.

- 7.2 Review the Annual Debt Transparency Report Submitted to the California Debt and Investment Advisory Commission (CDIAC) for the 2022 Installment Sale Agreement \$71,000,000 Recycled Water Project Phase 1
- 

Jeanette Juarez, Chief Administrative Officer, reported that all California state and local public debt issuers must submit an annual debt transparency report to the California Debt and Investment Advisory Commission ("CDIAC"). The report is due by January 31 of each year for any debt outstanding at any point during the prior fiscal year. The District is within its debt ratio and has met all payments for its Bank of America loan.

- 7.3 Election of Vice President for the Calendar Year 2024
- 

Due to the resignation of Jacky Barnum the office of Vice President is vacant. The purpose of this election is for the Board of Directors to elect a Vice President for the calendar year 2024.

**ACTION TAKEN:**

**MOTION:** Director Teague motioned to elect Director Mike Duran as Vice President for calendar year 2024. President Canero seconded the motion. Motion carried by the following roll call vote:  
AYES: Canero, Duran, Teague  
NOES: None  
**MINUTE ORDER NO. 2024-3367**

7.4 Receive an Update on Board of Director Recruitment

---

Jason Dafforn, General Manager, gave an update on the Board of Director recruitment for Division A. He informed the Board that the notice of vacancy has been issued, and applications are available on the District website and in the Administration office. Staff will host an Open House on February 22 for interested candidates. Mr. Dafforn stated the application due date is March 6, and the interviews and appointment will be March 12, 2024. No applications have been received to date.

**8. GENERAL MANAGER'S ITEMS**

8.1 Receive Monthly General Managers Report for January 2024

---

The Board received the monthly General Managers Report for January 2024.

**9. COMMITTEE REPORTS**

9.1 Draft Minutes of the Operations Committee Meeting – February 6, 2024

---

Staff presented the operations Committee with the Ammonia Removal Pilot Study presentation that was given at the Tri-State Seminar in Las Vegas. The Committee also received an update on the Capital Improvement Projects. Once the vacancy is filled, President Canero wants staff to present the Ammonia Removal Pilot Study to the full Board.

**10. DIRECTOR'S ITEMS**

---

Vice President Duran stated that he had been attending a water program through UC Riverside. President Canero reported on the Coachella Valley History Museum tour. She also informed the Board that she has asked the District Counsel to review the General Manager's evaluation to keep with the evaluation timeline. President Canero and Jason Dafforn will be in Washington, D.C., from February 25-29, 2024, to attend the CASA DC Forum.

**11. INFORMATIONAL ITEMS**

---

The District will host Indio High School students for an all-day tour on February 21, 2024. Mr. Dafforn distributed the updated fact sheets that can be given at conferences and funding opportunities. Senator Padilla will host an Open House on March 2, 2024, for his new office on Dr. Carreon in Indio.

**12. ADJOURNMENT**

With no further business to discuss, the meeting adjourned at 1:40 p.m. The next regular Board meeting will be on February 27, 2024.

Respectfully submitted,

Holly Gould, Clerk of the Board  
Valley Sanitary District



**Valley Sanitary District**

**DATE:** March 12, 2024  
**TO:** Board of Directors  
**FROM:** Jeanette Juarez, Chief Administrative Officer  
**SUBJECT:** APPROVE WARRANTS FOR MARCH 12, 2024

---

**Suggested Action**

Approve

**Strategic Plan Compliance**

GOAL 5: Long-Term Financial Strength

**Fiscal Impact**

The total charges incurred for the warrants from February 6, 2024, through March 4, 2024, are \$867,123.94.

**Environmental Review**

This item does not qualify as a project as defined by the California Environmental Quality Act (CEQA).

**Background**

The attached warrants list shows all disbursements from February 6, 2024, through March 4, 2024.

**Recommendation**

Approve the warrants for March 12, 2024.

**Attachments**

[Warrants for March 12, 2024.pdf](#)

**DISBURSEMENTS**  
**Approved at the Board Meeting of**  
**March 12, 2024**

42339 Alliance Protection	Troubleshoot door access issue	\$155.00
42340 Calif. Society of Municipal Finance Officers	CSMFO membership - B. Rodriguez	\$55.00
42341 Carquest Auto Parts	New charges - Jan 2024	\$1,316.26
42342 Cintas Corp	Uniforms mats towels etc - 11/30/2023	\$532.84
42342 Cintas Corp	Uniforms, mats, towels etc - 02/01/2024	\$532.84
42343 Consolidated Electrical Distributors, Inc.	Inst tap conn folding hex key set	\$178.76
42344 Daniels Tire Service, Inc.	Tire, tpms, balance, disposal for VSD-24	\$164.92
42345 EPIC IO Technologies, Inc	LTE POTS - Feb 2023	\$199.35
42346 Fiesta Ford	Oil change and filter change F250 SC	\$84.22
42347 Geotab USA, Inc	Geotab vehicle services - Jan 2024	\$577.76
42348 Jeanette Juarez	2024 CSMFO Conference reimbursement - J. Juarez	\$412.83
42349 Karen C Hopper	2024 CSMFO conference reimbursement - K. Hopper	\$1,305.54
42350 Mariposa Landscapes, Inc	Landscape services - Jan 2024	\$1,658.03
42351 McMaster-Carr Supply Co.	Low pressure forged flange, steel sheet	\$207.75
42352 Merchants Building Maintenance, LLC	Janitorial service - Feb 2024	\$3,314.81
42353 Michael Placencia	CWEA P3S Conference reimbursement - M. Placencia	\$151.96
42354 Miguel Serna	HRCI - SPHR certification reimbursement - M. Serna	\$169.00
42355 Motion Industries, Inc.	Tellus 5 gallon lubricant penetrant	\$162.96
42355 Motion Industries, Inc.	Ax 32 tripower belt super hc v belt	\$84.30
42355 Motion Industries, Inc.	Gear reducer, seal, repair parts, oil seals	\$36.57
42355 Motion Industries, Inc.	Fluid transfer pumps	\$1,022.47
42356 Pyro-Comm Systems	Fire alarm monitoring - Feb 2024-April 2024	\$135.00
42357 RACO Manufacturing & Engineering Co.	Alarm agent service cloud based 2 years - 2/1/2024-1/31/2026	\$4,125.00
42358 Ridgeline Municipal Strategies, LLC	Task 1 fy22-fy23 CDIAC annual dept transparency	\$825.00
42359 Southern California Boiler, Inc.	Preventative maint annual year service oct 2023	\$8,177.87
42360 Swains Electric Motor Service	15 hp Keen submersible pump	\$3,967.02
42361 Trittech Software Systems	Additional asset management licenses - Q-161119	\$21,600.00
42361 Trittech Software Systems	Asset management maint fee 4/1/2024-3/31/2025	\$7,452.15
42361 Trittech Software Systems	Asset management annual maint fee 4/1/2024-03/31/2025	\$3,747.51
42362 United Way of the Desert	Sick / Vac Accrual PE 02/01/2024	\$20.00
42363 White Cap, L.P.	Plus rotary hammer drill	\$18.43
42364 Bank of New York Trust Co. ( A.D. 4 )	Interest Payment - AD 2004	\$50,856.51
42365 Debra Canero	CASA Winter Conference 2024 reimbursement	\$96.08
42366 Mike Duran	CASA Winter Conference 2024 reimbursement	\$96.08
42367 Ramon Higuera	Tables, table cloths, and chairs for On Site Tour at VSD	\$200.00
42368 Alliance Protection	50% deposit on alarm panel replacement	\$4,836.00
42369 Badger Meter, Inc	Pump drive, thermoelectric cooler	\$359.45
42370 Best Best & Krieger LLP	Labor issues - Jan 2024	\$1,782.20
42370 Best Best & Krieger LLP	Easement Access - Jan 2024	\$221.43
42370 Best Best & Krieger LLP	General legal - Jan 2024	\$4,189.45
42371 Carollo Engineering, Inc	EVRA rwp as needed services - January 2024	\$22,413.95
42372 Cintas Corp	Uniforms, mats, towels etc - 02/08/2024	\$536.34
42373 Cole-Parmer	Cubitainer	\$452.67
42374 Core & Main LP	Bel art autoclave carboy	\$957.72
42374 Core & Main LP	Filters	\$248.52
42375 Desert Steel Supply	Black pipe	\$402.38
42376 G3 Engineering, Inc	Steel discharge head 150# flange ONLY Quote 3381	\$28,414.95
42377 Hach Company	Renovo	\$54.16
42377 Hach Company	Alkalinity tnt +	\$496.60
42378 Inland Kenworth(US) Inc	Remainder on repairs of vactor	\$5,000.00
42379 Innovative Document Solutions	Canon copier maint - Jan 2024	\$90.58
42380 Master's Refreshment Services LLC	Bottled water - 02/05/2024	\$154.00
42381 McMaster-Carr Supply Co.	Restock of plumbing supplies	\$806.83
42381 McMaster-Carr Supply Co.	Steel u bolt	\$41.79
42381 McMaster-Carr Supply Co.	Rubber plug	\$733.35
42382 Merrimac Energy Group	Fuel delivery - 02/05/2024	\$5,271.17
42383 Mobile Modular Management Corp	Office trailer rental - FEB 2024	\$655.15
42384 Motion Industries, Inc.	Process gauge	\$948.25
42384 Motion Industries, Inc.	Oil seal centrifugal pump	\$116.91
42384 Motion Industries, Inc.	Raptor element e20	\$1,857.37
42385 Plumbers Depot Inc.	Fiber glass poles	\$428.89
42386 Polydyne, Inc.	Polymer - 01/09/2024	\$4,271.63
42387 Sam's Fence Inc.	Installed emergency chain fence	\$4,875.00
42388 Sing & Son Concrete	Slurry concrete	\$3,600.00
42389 Southwest Networks, Inc.	Labor - Jan 2024	\$451.25
42389 Southwest Networks, Inc.	Guardian bdr - March 2024	\$699.00
42390 Staples Advantage	Office supplies - Jan 2024	\$438.02
42391 Synagro West, LLC	Biosolids hauling Jan 2024	\$6,815.06
42392 Thomas Scientific	Gga concentrate snips crm	\$171.60
42393 Total Care Work Injury Clinic	Pre employment screening	\$165.00
42394 Townsend Public Affairs, Inc	State advocacy - Feb 2024	\$5,000.00
42395 Alliance Protection	Alarm monitoring - march - may 2024	\$657.42

42396 American Water Works Association	AWWA membership - april 2024-march 2025	\$321.00
42396 American Water Works Association	Membership for R. Buchwald 5/1/2024-4/30/2025	\$321.00
42397 Caltest Analytical Laboratory	Monthly samples - 02282024	\$2,067.20
42397 Caltest Analytical Laboratory	Weekly samples - 02282024	\$393.30
42397 Caltest Analytical Laboratory	Weekly samples - npdes	\$393.30
42397 Caltest Analytical Laboratory	Weekly samples - npdes 02/20/2024	\$393.30
42398 Carl A. Botterud	Attorney fees - workplace investigation	\$8,879.00
42399 Charles P. Crowley Company, Inc.	Valve, back pressure 1/2"	\$1,709.56
42400 Cintas Corp	First aid supplies - 02/15/2024	\$869.52
42400 Cintas Corp	Uniforms, mats, towels etc - 02/15/2024	\$557.29
42401 Davis Farr LLP	Annual audit services fy 06/30/2023	\$1,750.00
42402 Desert Hose & Supply	04 mj x -02 mp 90	\$10.22
42402 Desert Hose & Supply	Jic cap and plug kit, astro grip I	\$182.55
42403 Diamond Environmental Services, LP	Restroom rental - 2/19/2024-3/17/2024	\$269.20
42404 E.S. Babcock & Sons, Inc.	Cyanide - 02/22/2024	\$178.35
42405 Environmental Resource Associates	Hardness, residual chlorine	\$312.14
42406 George Petersen Insurance Agency	Insurance renewal - 4/1/2024-3/31/2025	\$195,832.00
42407 Hach Company	Ammonia tnt+	\$471.92
42408 Industrial Scientific Corporation	Ventis mx4 lel	\$959.25
42408 Industrial Scientific Corporation	Ventis slide on pump	\$747.72
42409 Innovative Federal Strategies LLC	Federal advocacy - jan 2024	\$7,305.18
42410 Kaman Industrial Technologies	B75 hy-t v belt	\$86.70
42411 Linde Gas & Equipment Inc.	Tank rental - 1/20/2024-2/20/2024	\$162.62
42412 Mariposa Landscapes, Inc	Irrigation valve work - jan 2024 (off contract)	\$406.00
42413 McMaster-Carr Supply Co.	420 ss slotted spring pins	\$33.87
42413 McMaster-Carr Supply Co.	18-8 ss rod, pipe fitting, pipe nipple	\$714.63
42414 Motion Industries, Inc.	Sf hi-cap qd sheave, bushings qd	\$1,253.50
42415 Staples Advantage	Office supplies - Feb 2024	\$382.49
42416 Tops 'N Barricades Inc.	Tape flagging, paint	\$134.51
42417 Total Compensation Systems, Inc.	Gasb 75 full valuation - 1st installment	\$1,665.00
42418 Underground Service Alert	Board fees - feb 2024	\$67.31
42419 United Refrigeration Inc.	Calgon spec, calblue, rt foam, pillow block	\$634.94
42420 United Way of the Desert	PR 02/02/2024 - 02/15/2024 PD 02/23/2024	\$20.00
42421 Univar Solutions	Sodium hypo - 02/23/2024	\$10,841.00
42421 Univar Solutions	Sodium hypo - 02/13/2024	\$10,840.96
42421 Univar Solutions	Ferric chloride	\$2,985.19
42421 Univar Solutions	Sodium bisulfite - 02/15/2024	\$6,336.67
42422 USA Blue Book	Hach ph electrode storage solution	\$156.08
42422 USA Blue Book	Sample cup hdpe	\$135.43
42422 USA Blue Book	Plant pro 47mm	\$474.36
42422 USA Blue Book	Hach nitrivier	\$79.01
42423 Valley Office Equipment, Inc	Sharp maintenance - 1/13/2024-2/12/2024	\$95.24
42424 YSI Inc	Washer, grommets, rotors, cable, rebuild RAS pump	\$26,755.16
202402132 Basic	Funds withdrawn - 02/13/2024	\$22.83
202402151 SoCal Gas	Gas service - January 2024	\$701.05
202402211 Rudy's Pest Control	General Pest - Feb 2024	\$200.00
202402212 Grainger	Epoxy mastic base	\$333.23
202402212 Grainger	Sanding belt	\$111.47
202402212 Grainger	Twisty key ring	\$49.86
202402212 Grainger	Locker	\$447.40
202402212 Grainger	Surface cond belt	\$119.67
202402212 Grainger	Battery recycling kit	\$162.60
202402213 Basic	Funds withdrawn - 02/21/2024	\$100.51
202402231 Paychex - Direct Deposit	PR 02/02/2024 - 02/15/2024 PD 02/23/2024	\$101,466.80
202402232 Paychex - Fee	PR 02/02/2024 - 02/15/2024 PD 02/23/2024	\$248.61
202402233 Paychex - Garnishment	PR 02/02/2024 - 02/15/2024 PD 02/23/2024	\$419.07
202402234 Paychex - Tax	PR 02/02/2024 - 02/15/2024 PD 02/23/2024	\$47,797.82
202402235 Mission Square (formerly ICMARC / Vantage Point)	PR 02/02/2024 - 02/15/2024 PD 02/23/2024	\$1,470.00
202402236 Nationwide Retirement Solution	PR 02/02/2024 - 02/15/2024 PD 02/23/2024	\$2,490.68
202402237 Empower (formerly Mass Mutual)	PR 02/02/2024 - 02/15/2024 PD 02/23/2024	\$10.00
202402238 CalPERS 457	PR 02/02/2024 - 02/15/2024 PD 02/23/2024	\$1,228.09
202402239 CalPERS Retirement	PR 02/02/2024 - 02/15/2024 PD 02/23/2024	\$28,150.27
202402261 Standard Insurance Company	Dental and Vision insurance - March 2024	\$5,129.44
202402262 CalPERS Health	Health insurance - March 2024	\$59,794.64
202402263 Basic	Funds withdrawn - 02/26/2024	\$533.71
202402264 FedEx	Shipping charges - 02/06/2024	\$712.30
202402264 FedEx	Shipping charges - 02/13/2024	\$208.80
202402271 Colonial Life	Sick / Vac Accrual PE 02/01/2024	\$1,003.32
202402271 Colonial Life	PR 02/02/2024 - 02/15/2024 PD 02/23/2024	\$1,003.32
202402272 Grainger	Semi synthetic coolant	\$114.65
202402272 Grainger	Union stainless steel piping	\$193.02
202402272 Grainger	Leather gloves	\$60.06
202402272 Grainger	3 ring binder	\$42.63
202402272 Grainger	Absorbent roll	\$249.81
202402272 Grainger	Absorbent roll	\$278.41
202402272 Grainger	V belt	\$105.14
202402272 Grainger	Mini pleat air filter	\$447.75

202402291 Domino Solar LTD	Electricity - January 2024	\$6,580.58
202402299 De Lage Landen Financial Services, Inc	Sharp lease - Feb 2024	\$212.07
202403011 Standard Insurance Company	Disability and Life insurance - March 2024	\$1,929.31
202403041 Imperial Irrigation District	Electricity - January 2024	\$86,403.03
202403042 Verizon Wireless	Cell phones - February 2024	\$1,203.44
202403043 Basic	Funds withdrawn - 03/04/2024	\$1,411.25
202403051 FedEx	Shipping charges - 02/21/2024	\$421.21
202403101 City of Coachella	Water - February 2024	\$48.02
202403102 Burrtec Waste & Recycling Svcs	Grit removal - February 2024	\$2,303.79
202403103 Burrtec Waste & Recycling Svcs	Trash service - March 2024	\$311.49
202403111 Indio Water Authority	Water - January 2024	\$455.21
	Total	\$867,123.94





**Valley Sanitary District**

**DATE:** March 12, 2024  
**TO:** Board of Directors  
**FROM:** Jeanette Juarez, Chief Administrative Officer  
**SUBJECT:** MONTHLY CREDIT CARD REPORT FOR THE PERIOD ENDING  
JANUARY 31, 2024.

---

**Suggested Action**

Approve

**Strategic Plan Compliance**

GOAL 5: Long-Term Financial Strength

**Fiscal Impact**

The total charges incurred for the credit card statement ending January 31, 2024, are \$5,137.88.

**Environmental Review**

This item does not qualify as a project as defined by the California Environmental Quality Act (CEQA).

**Background**

The attached report summarizes the District's credit card expenditures for the statement ending January 31, 2024.

**Recommendation**

Approve the credit card report for the period January 31, 2024.

**Attachments**

[8.3 Attachment A UMQUA Credit Card Statement January\\_Redacted.pdf](#)

[8.3 Attachment B Credit Card Transaction January 2024.xlsx](#)

**Account Summary**

Billing Cycle		01/31/2024
Days In Billing Cycle		31
Previous Balance		\$15,872.54
Purchases	+	\$5,137.88
Cash	+	\$0.00
Balance Transfers	+	\$0.00
Special	+	\$0.00
Credits	-	\$0.00
Payments	-	\$15,872.54
Other Charges	+	\$0.00
Finance Charges	+	\$0.00

**NEW BALANCE** **\$5,137.88**

**Credit Summary**

Total Credit Line	\$75,000.00
Available Credit Line	\$69,862.12
Available Cash	\$0.00
Amount Over Credit Line	\$0.00
Amount Past Due	\$0.00
Disputed Amount	\$0.00

**Account Inquiries**

- Call us at: (866) 777-9013  
Lost or Stolen Card: (866) 839-3485
- Go to [www.umpquabank.com](http://www.umpquabank.com)
- Write us at PO BOX 35142 - LB1181, SEATTLE, WA 98124-5142

**Payment Summary**

<b>NEW BALANCE</b>	<b>\$5,137.88</b>
<b>MINIMUM PAYMENT</b>	<b>\$5,137.88</b>
<b>PAYMENT DUE DATE</b>	<b>02/25/2024</b>

*NOTE: Grace period to avoid a finance charge on purchases, pay entire new balance by payment due date. Finance charge accrues on cash advances until paid and will be billed on your next statement.*

**Corporate Activity**

Trans Date	Post Date	Reference Number	Transaction Description	Amount
01/10	01/10	74807254009111111111111	AUTO PMT FROM ACCT [REDACTED]	\$15,872.54

**Cardholder Account Summary**

JEANETTE JUAREZ #### #### #### 4756	Payments & Other Credits	Purchases & Other Charges	Cash Advances	Total Activity
	\$0.00	\$983.01	\$0.00	\$983.01

**Cardholder Account Detail**

Trans Date	Post Date	Plan Name	Reference Number	Description	Amount
01/03	01/04	PPLN01	24492154003743899765004	ADOBE *ACROPRO SUBS 408-536-6000 CA	\$263.89
01/03	01/05	PPLN01	24137464004100441091137	OFFICEMAX/DEPOT 6389 800-463-3768 CA	\$23.01
01/05	01/07	PPLN01	24137464006200256800164	OFFICE DEPOT #5125 800-463-3768 CA	\$47.83
01/05	01/08	PPLN01	24789304007921201349738	OTC BRANDS INC 800-2280475 NE	\$39.12

PLEASE DETACH COUPON AND RETURN PAYMENT USING THE ENCLOSED ENVELOPE - ALLOW UP TO 7 DAYS FOR RECEIPT

UMPQUA BANK  
 PO BOX 35142 - LB1181  
 SEATTLE WA 98124-5142



**Account Number**



Check box to indicate name/address change on back of this coupon

AMOUNT OF PAYMENT ENCLOSED

Closing Date	New Balance	Total Minimum Payment Due	Payment Due Date
01/31/24	\$5,137.88	\$5,137.88	02/25/24

\$



BL ACCT [REDACTED]  
 VALLEY SANITARY DISTRICT  
 45-500 VAN BUREN STREET  
 INDIO CA 92201

e-Statement



MAKE CHECK PAYABLE TO:

UMPQUA BANK COMMERCIAL CARD OPS  
 PO BOX 35142 - LB1181  
 SEATTLE WA 98124-5142

**IMPORTANT INFORMATION**

Finance Charge Calculation Methods and Computation of Average Daily Balance Subject to Finance Charge: The Finance Charge Calculation Method applicable to your account for Cash Advances and Credit Purchases of goods and services that you obtain through the use of your card is specified on the front side of this statement and explained below:

**Method A - Average Daily Balance (including current transactions):** The Finance Charge on purchases begins on the date the transaction posted to your account. The Finance Charge on Cash Advances begins on the date you obtained the cash advance, or the first day of the billing cycle within which it is posted to your account, whichever is later. There is no grace period.

The Finance Charges for a billing cycle are computed by applying the Periodic Rate to the "average daily balance" of your account. To get the average daily balance, we take the beginning balance of your account each day, add any new purchases or cash advances, and subtract any payments, credits, non-accruing fees, and unpaid finance charges. This gives us the daily balance. Then we add up all the daily balances for the billing cycle and divide the total by the number of days in the billing cycle.

**Method E - Average Daily Balance (excluding current transactions):** To avoid incurring an additional Finance Charge on the balance of purchases (and cash advances if Method E is specified as applicable to cash advances) reflected on your monthly statement, you must pay the New Balance shown on your monthly statement on or before the Payment Due Date. The grace period for the New Balance of purchases extends to the Payment Due Date.

The Finance Charges for a billing cycle are computed by applying the Periodic Rate to the "average daily balance" of purchases (and if applicable, cash advances). To get the average daily balance, we take the beginning balance of your account each day and subtract any payments, credits, non-accruing fees, and unpaid finance charges. We do not add in any new purchases or cash advances. This gives us the daily balance. Then we add up all the daily balances for the billing cycle and divide the total by the number of days in the billing cycle.

**Method G - Average Daily Balance (including current transactions):** To avoid incurring an additional Finance Charge on the balance of purchases (and cash advances, if Method G is specified as applicable to cash advances) reflected on your monthly statement and, on any new purchases (and if applicable, cash advances) appearing on your next monthly statement, you must pay the New Balance, shown on your monthly statement, on or before the Payment Due Date. The grace period for the New Balance of purchases extends to the Payment Due Date.

The Finance Charges for a billing cycle are computed by applying the Periodic Rate to the "average daily balance" of purchases (and if applicable, cash advances). To get the average daily balance, we take the beginning balance of your account each day, add any new purchases or cash advances, and subtract any payments, credits, non-accruing fees, and unpaid finance charges. This gives us the daily balance. Then we add up all the daily balances for the billing cycle and divide the total by the number of days in the billing cycle.

**Payment Crediting and Credit Balance:** Payments received at the location specified on the front of the statement after the phrase "MAKE CHECK PAYABLE TO" will be credited to the account specified on the payment coupon as of the date of receipt. Payments received at a different location or payments that do not conform to the requirements set forth on or with the periodic statement (e.g. missing payment stub, payment envelope other than as provided with your statement, multiple checks or multiple coupons in the same envelope) may be subject to delay in crediting, but shall be credited within five days of receipt. If there is a credit balance due on your account, you may request in writing, a full refund. Submit your request to the Account Inquiries address on the front of this statement.

By sending your check, you are authorizing the use of the information on your check to make a one-time electronic debit from the account on which the check is drawn. This electronic debit, which may be posted to your account as early as the date your check is received, will be only for the amount of your check. The original check will be destroyed and we will retain the image in our records. If you have questions please call the customer service number on the front of this billing statement.

**Closing Date:** The closing date is the last day of the billing cycle; all transactions received after the closing date will appear on your next statement.

**Annual Fee:** If your account has been assessed an annual fee, you may avoid paying this annual fee by sending written notification of termination within 30 days following the mailing date of this bill. Submit your request to the Account Inquiries address on the front of this statement. You may use your card(s) during this 30 day period but immediately thereafter must send your card(s), which you have cut in half, to this same address.

**Negative Credit Reports:** You are hereby notified that a negative credit report reflecting on your credit record may be submitted to a credit reporting agency if you fail to fulfill the terms of your credit obligations.

**BILLING RIGHTS SUMMARY**

**In Case of Errors or Inquiries About Your Bill:** If you suspect there is an error on your account or you need information about a transaction on your bill, send your written inquiry to the Account Inquiries address on the front of this statement within 60 days of the date of the statement containing the transaction in question. You may telephone us, however a written request is required to preserve your rights.

In your letter, give us the following information:

- ◆ Your name and account number.
- ◆ The dollar amount of the suspected error.
- ◆ Describe the error and explain, if you can, why you believe there is an error. If you need more information, describe the item you are unsure about.

You do not have to pay any amount in question while we are investigating, but you are still obligated to pay the parts of your bill that are not in question. While we investigate your question, we cannot report you as delinquent or take any action to collect the amount you question.

Please provide a legal document evidencing your name change, such as a court document.

Please use blue or black ink to complete form

**NAME CHANGE**

Last

First  Middle

**ADDRESS CHANGE**

Street

City  State  ZIP Code

Home Phone (  )  -  Business Phone (  )  -

Cell Phone (  )  -  E-mail Address

**SIGNATURE REQUIRED TO AUTHORIZE CHANGES**

Signature \_\_\_\_\_

Cardholder Account Detail Continued					
Trans Date	Post Date	Plan Name	Reference Number	Description	Amount
01/10	01/11	PPLN01	24692164010100220183696	AMZN Mktp US*TK9920U11 Amzn.com/bill WA	\$9.73
01/19	01/21	PPLN01	24692164019107154441272	J2 EFAX SERVICES 323-817-3205 CA	\$18.99
01/22	01/23	PPLN01	24692164022109626061550	SQ *TKB BAKERY & DELI gosq.com CA	\$385.94
01/23	01/25	PPLN01	24412904024030023531555	AROUND THE CLOCK CALL CTR 888-711-1956 CA	\$144.50
01/29	01/30	PPLN01	24492164029000042538443	CSMFO WWW.CSMFO.ORG CA	\$50.00

Cardholder Account Summary					
HEBERTO MORENO ### ## 6026		Payments & Other Credits \$0.00	Purchases & Other Charges \$388.66	Cash Advances \$0.00	Total Activity \$388.66

Cardholder Account Detail					
Trans Date	Post Date	Plan Name	Reference Number	Description	Amount
01/04	01/07	PPLN01	24034544005000458193366	7-ELEVEN 38595 INDIO CA	\$16.38
01/23	01/25	PPLN01	24943014024010178362416	THE HOME DEPOT #6874 INDIO CA	\$106.81
01/23	01/25	PPLN01	24137464025001392064294	TRACTOR SUPPLY #2357 INDIO CA	\$70.68
01/24	01/26	PPLN01	24943014025010182236225	THE HOME DEPOT #6874 INDIO CA	\$71.20
01/29	01/30	PPLN01	24231684029872210421377	CTC-VIS 240-500-0808 CA	\$120.00
01/29	01/30	PPLN01	24231684029872240421371	CTC-VIS *SVC 240-500-0808 MD	\$3.59

Cardholder Account Summary					
TINO TIJERINA ### ## 6034		Payments & Other Credits \$0.00	Purchases & Other Charges \$418.08	Cash Advances \$0.00	Total Activity \$418.08

Cardholder Account Detail					
Trans Date	Post Date	Plan Name	Reference Number	Description	Amount
01/04	01/05	PPLN01	24692164004105698614773	SQ *UNIQUE BITE EATERY Indio CA	\$191.23
01/11	01/12	PPLN01	24013394011001161564163	DESERT STEEL & SUPPLY INDIO CA	\$48.94
01/11	01/14	PPLN01	24692164012101908233025	THE HOME DEPOT 6874 INDIO CA	\$90.96
01/11	01/14	PPLN01	24137464013001478280818	TRACTOR SUPPLY #2357 INDIO CA	\$86.95

Cardholder Account Summary					
EDUARDO LUNA ### ## 9557		Payments & Other Credits \$0.00	Purchases & Other Charges \$672.41	Cash Advances \$0.00	Total Activity \$672.41

Cardholder Account Detail					
Trans Date	Post Date	Plan Name	Reference Number	Description	Amount
01/24	01/25	PPLN01	2437735402500002300892	SILVERADO TOWING INDIO CA	\$500.00
01/29	01/30	PPLN01	24067204029229190502831	RDOAG IND 010445 INDIO CA	\$43.85
01/29	01/30	PPLN01	24067204029229190502849	RDOAG IND 010445 INDIO CA	\$128.56

Cardholder Account Summary					
BRANDEN RODRIGUEZ ### ## 9565		Payments & Other Credits \$0.00	Purchases & Other Charges \$1,081.00	Cash Advances \$0.00	Total Activity \$1,081.00

Cardholder Account Detail					
Trans Date	Post Date	Plan Name	Reference Number	Description	Amount
01/03	01/04	PPLN01	24801974004690906935888	CALIFORNIA WATER ENVIRON 510-382-7800 CA	\$241.00
01/03	01/04	PPLN01	24801974004690908577522	CALIFORNIA WATER ENVIRON 510-382-7800 CA	\$98.00
01/03	01/04	PPLN01	24801974004690908637268	CALIFORNIA WATER ENVIRON 510-382-7800 CA	\$221.00
01/03	01/04	PPLN01	24801974004690909068521	CALIFORNIA WATER ENVIRON 510-382-7800 CA	\$221.00

**Cardholder Account Detail Continued**

Trans Date	Post Date	Plan Name	Reference Number	Description	Amount
01/12	01/14	PPLN01	24793384012000304786036	DOCUSIGN INC. 800-3799973 DE	\$300.00

**Cardholder Account Summary**

HOLLY GOULD #### #### #### 7260	Payments & Other Credits \$0.00	Purchases & Other Charges \$793.67	Cash Advances \$0.00	Total Activity \$793.67
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**Cardholder Account Detail**

Trans Date	Post Date	Plan Name	Reference Number	Description	Amount
01/07	01/08	PPLN01	24692164007108193109122	AMZN Mktp US*RT81G5NA0 Amzn.com/bill WA	\$86.99
01/08	01/10	PPLN01	24226384009360974253135	WAL-MART #2181 INDIO CA	\$110.17
01/11	01/11	PPLN01	24011344011000006926758	CCC VERIFY CORPORATECOST MA	\$55.95
01/15	01/16	PPLN01	24426294015018017035205	BASIC 269-488-6773 WI	\$160.44
01/18	01/18	PPLN01	24692164018106080955240	1-800-FLOWERS.COM.INC. 800-468-1141 NY	\$143.51
01/23	01/24	PPLN01	24226384024360046470858	WAL-MART #2181 INDIO CA	\$157.95
01/23	01/24	PPLN01	24226384024360046470866	WAL-MART #2181 INDIO CA	\$78.66

**Cardholder Account Summary**

ANNA BELL #### #### #### 7278	Payments & Other Credits \$0.00	Purchases & Other Charges \$103.00	Cash Advances \$0.00	Total Activity \$103.00
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**Cardholder Account Detail**

Trans Date	Post Date	Plan Name	Reference Number	Description	Amount
01/30	01/31	PPLN01	24801974031690288123969	CALIFORNIA WATER ENVIRON 510-382-7800 CA	\$103.00

**Cardholder Account Summary**

JIMMY GARCIA #### #### #### 7450	Payments & Other Credits \$0.00	Purchases & Other Charges \$517.53	Cash Advances \$0.00	Total Activity \$517.53
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**Cardholder Account Detail**

Trans Date	Post Date	Plan Name	Reference Number	Description	Amount
01/19	01/21	PPLN01	24943014020010177577802	THE HOME DEPOT #6874 INDIO CA	\$177.46
01/24	01/26	PPLN01	24692164025101796671000	THE HOME DEPOT 6874 INDIO CA	\$328.07
01/29	01/31	PPLN01	24034544030003274834519	ARCO #42960 AMPM INDIO CA	\$12.00

**Cardholder Account Summary**

DAVE COMMONS #### #### #### 7327	Payments & Other Credits \$0.00	Purchases & Other Charges \$19.99	Cash Advances \$0.00	Total Activity \$19.99
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**Cardholder Account Detail**

Trans Date	Post Date	Plan Name	Reference Number	Description	Amount
01/03	01/04	PPLN01	24492154003717853288914	ADOBE *ACROPRO SUBS 408-536-6000 CA	\$19.99

**Cardholder Account Summary**

DEBRA CANERO #### #### #### 2806	Payments & Other Credits \$0.00	Purchases & Other Charges \$17.57	Cash Advances \$0.00	Total Activity \$17.57
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**Cardholder Account Detail**

Trans Date	Post Date	Plan Name	Reference Number	Description	Amount
01/24	01/26	PPLN01	24445004026600107432132	JAVA CALIENTE CAFE PALM SPRINGS CA	\$17.57

BL ACCT [REDACTED]  
 VALLEY SANITARY DISTRICT

Account Number: [REDACTED]

Page 5 of 5

**Cardholder Account Summary**

JASON DAFFORN #### #### #### 7175	Payments & Other Credits \$0.00	Purchases & Other Charges \$121.98	Cash Advances \$0.00	Total Activity \$121.98
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**Cardholder Account Detail**

Trans Date	Post Date	Plan Name	Reference Number	Description	Amount
01/01	01/01	PPLN01	24692164001102883231060	Palm Sp Desert Sun 888-426-0491 IN	\$14.99
01/02	01/03	PPLN01	24204294002000432237072	FACEBK NMFSPXBHJ2 650-5434800 CA	\$10.00
01/06	01/07	PPLN01	24204294006000319200082	FACEBK DCU84Z7HJ2 650-5434800 CA	\$8.99
01/11	01/12	PPLN01	24692164011101224779637	SQ *UNIQUE BITE EATERY Indio CA	\$47.57
01/18	01/21	PPLN01	24037244019900011895217	EL MEXICALI CAFE II INDIO CA	\$40.43

**Cardholder Account Summary**

JAMES MILLS #### #### #### 0168	Payments & Other Credits \$0.00	Purchases & Other Charges \$20.98	Cash Advances \$0.00	Total Activity \$20.98
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**Cardholder Account Detail**

Trans Date	Post Date	Plan Name	Reference Number	Description	Amount
01/19	01/21	PPLN01	24692164019106943210030	AMZN Mktp US*R87SZ6FW1 Amzn.com/bill WA	\$13.04
01/21	01/22	PPLN01	24431064021083705656326	AMAZON.COM*R89HA8PN1 SEATTLE WA	\$7.94

**Additional Information About Your Account**

IT IS NOT NECESSARY TO MAIL YOUR PAYMENT. YOUR ACCOUNT WILL BE AUTOMATICALLY PAID THROUGH A DIRECT DEBIT OF YOUR CHECKING OR SAVINGS ACCOUNT ON 02/11/24 PER YOUR AGREEMENT WITH US. THE DEBIT AMOUNT THIS MONTH IS \$5137.88

**Finance Charge Summary / Plan Level Information**

Plan Name	Plan Description	FCM <sup>1</sup>	Average Daily Balance	Periodic Rate *	Corresponding APR	Finance Charges	Effective APR Fees **	Effective APR	Ending Balance
<b>Purchases</b>									
PPLN01 001	PURCHASE	E	\$0.00	0.06008%(D)	21.9900%	\$0.00	\$0.00	0.0000%	\$5,137.88
<b>Cash</b>									
CPLN01 001	CASH	A	\$0.00	0.06554%(D)	23.9900%	\$0.00	\$0.00	0.0000%	\$0.00

\* Periodic Rate (M)=Monthly (D)=Daily  
 \*\* includes cash advance and foreign currency fees  
<sup>1</sup> FCM = Finance Charge Method  
 Days In Billing Cycle: 31  
 APR = Annual Percentage Rate  
 (V) = Variable Rate If you have a variable rate account the periodic rate and Annual Percentage Rate (APR) may vary.





**Valley Sanitary District**

**DATE:** March 12, 2024  
**TO:** Board of Directors  
**FROM:** Jeanette Juarez, Chief Administrative Officer  
**SUBJECT:** MONTHLY INVESTMENT REPORT FOR THE PERIOD ENDING  
JANUARY 31, 2024

---

**Suggested Action**

Approve

**Strategic Plan Compliance**

GOAL 5: Long-Term Financial Strength

**Fiscal Impact**

There is no fiscal impact from this report.

**Environmental Review**

This item does not qualify as a project as defined by the California Environmental Quality Act (CEQA).

**Background**

The District's Investment Policy has set primary goals for the portfolio management of safety, liquidity, and yield. This report is in compliance with California Government Code Section 53646 regarding the reporting of detailed information on all securities, investments, and monies of the District, as well as reporting of the market value of the investments held. All the investments contained within the portfolio are in full compliance with Government Code Section 53601 and the District's Investment Policy as to the types of investments allowed.

**Recommendation**

Receive and file the monthly investment report for the period ending January 31, 2024.

**Attachments**

[8.4 Attachment A Investment Report.pdf](#)



Valley Sanitary District  
Investment Report  
For the Month Ending January 31, 2024

Description	Cost Value	Market Value	Interest/ Book Yield	Maturity Date	% of Portfolio
<b>Cash and Cash Equivalents</b>					
Wells Fargo - Checking	\$ 12,649,828	\$ 12,649,828	0.00%	n/a	11.80%
State of California Local Agency Investment Fund (LAIF)	55,502,636	54,888,414	4.01%		51.19%
<b>Restricted Funds</b>					
CalTRUST					
Debt Service Reserve Fund -SWRCB Loan	1,101,361	1,105,208	5.40%	n/a	1.03%
<b>Funds Held by Fiscal Agents</b>					
TMI Trust Company					
Banc of America Public Capital Corp	38,577,899	38,577,899	4.69%	n/a	35.98%
<b>Total Investment Portfolio</b>	<b>\$ 107,831,723</b>	<b>\$ 107,221,348</b>			<b>100.00%</b>

Blended Yield of Cash and Investments	2.01%
---------------------------------------	-------

<b>Benchmarks:</b>	
LAIF	4.01%
CalTRUST	5.40%
Banc of America Public Capital Corp	4.69%

I hereby Certify that the investments are in compliance with the investment policy adopted by the Board of Directors. The investment portfolio provides sufficient funds to meet the budgeted expenditures over the next six (6) months. This report meets the requirements of Government Code Section 53646.

*Jeanette Juarez*

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Jeanette Juarez, Chief Administrative Officer

**SUMMARY OF CASH AND INVESTMENTS**

FOR THE PERIOD: 01/01/2024 TO 01/31/2024 (UNAUDITED)

Agenda Item No. \_\_\_\_\_

**INVESTMENTS**

LAIF Fund 4 - Agency Fund		
Beginning Balance (Fund 4)	275,908	
Net Transfer from (to) Fund 11	319,081	
Fair Value Factor for quarter ending 06/30/2024	0	
Interest (Pd quarterly - Int. Rate 4.00%)	<u>2,912</u>	
<b>Fund 04 Ending Balance</b>		<b><u>597,901</u></b>
LAIF Fund 6 - Wastewater Revenue Refunding Bonds		
Beginning Balance (Fund 6)	773	
Net Transfer from (to) Fund 11	0	
Fair Value Factor for quarter ending 06/30/2024	0	
Interest (Pd quarterly - Int. Rate 4.00%)	<u>8</u>	
<b>Fund 06 Ending Balance</b>		<b><u>781</u></b>
LAIF Fund 10 - Recycled Water Project		
Beginning Balance (Fund 10)	0	
Net Transfer from (to) Fund 11	0	
Fair Value Factor for quarter ending 06/30/2024	0	
Interest (Pd quarterly - Int. Rate 4.00%)	<u>0</u>	
<b>Fund 10 Ending Balance</b>		<b><u>0</u></b>
LAIF Fund 11 - Operating Fund		
Beginning Balance (Fund 11)	17,720,612	
Net Transfer from (to) Fund 04	(319,081)	
Net Transfer from (to) Fund 06	0	
Net Transfer from (to) Fund 12	4,836	
Net Transfer from (to) Fund 13	(329,186)	
Fund Transfer from (to) LAIF - WF	(1,200,000)	
Fair Value Factor for quarter ending 06/30/2024	0	
Interest (Pd quarterly - Int. Rate 4.00%)	<u>187,023</u>	
<b>Fund 11 Ending Balance</b>		<b><u>16,064,204</u></b>
LAIF Fund 12 - Reserve Fund		
Beginning Balance (Fund 12)	25,918,770	
Net Transfer from (to) Fund 11	(4,836)	
Fair Value Factor for quarter ending 06/30/2024	0	
Interest (Pd quarterly - Int. Rate 4.00%)	<u>273,548</u>	
<b>Fund 12 Ending Balance</b>		<b><u>26,187,482</u></b>
LAIF Fund 13 - Capital Improvement Fund		
Beginning Balance	11,586,574	
Connection Fees	457,416	
(Disbursements) or Reimbursements	<u>(128,230)</u>	
Net Transfer from (to) Fund 11	329,186	
Fair Value Factor for quarter ending 06/30/2024	0	
Interest (Pd quarterly - Int. Rate 4.00%)	<u>122,285</u>	
<b>Fund 13 Ending Balance</b>		<b><u>12,038,045</u></b>
<b>TOTAL LAIF INVESTMENTS: FUNDS 04, 06, 11, 12 AND 13</b>		<b><u>54,888,413</u></b>

**CASH IN CHECKING ACCOUNT**

**WELLS FARGO - FUND 11**

Beginning Balance	2,089,374	
Deposits	10,729,741	
Fund Transfer from (to) LAIF (net)	1,200,000	
Disbursements and Payroll	<u>(1,369,287)</u>	
<b>Wells Fargo Ending Balance</b>		<b><u>12,649,828</u></b>

**CALTRUST - FUND 11**

Beginning Balance	1,101,360	
Interest Income	3,848	
Unrealized Gain / <Loss>	<u>0</u>	
<b>CalTRUST Ending Balance</b>		<b><u>1,105,208</u></b>

<b>TOTAL WELLS FARGO AND CALTRUST CHECKING</b>		<b><u>13,755,036</u></b>
<b>TOTAL CASH AND INVESTMENTS</b>		<b><u>68,643,449</u></b>

The Board certifies the ability of the District to meet its expenditure requirements for the next six (6) months, as per Government Code 53646(b)(3).

This report is in compliance with the District's Investment Policy under Government Code 53646(b)(2).

California State Treasurer  
**Fiona Ma, CPA**



Local Agency Investment Fund  
 P.O. Box 942809  
 Sacramento, CA 94209-0001  
 (916) 653-3001

February 06, 2024

[LAIF Home](#)  
[PMIA Average Monthly Yields](#)

VALLEY SANITARY DISTRICT

SECRETARY/TREASURER  
 45500 VAN BUREN  
 INDIO, CA 92201

Tran Type Definitions

Account Number: XXXXXXXXXX

January 2024 Statement

Effective Date	Transaction Date	Tran Type	Confirm Number	Web Confirm Number	Authorized Caller	Amount
1/3/2024	12/28/2023	RW	1744417	1704828	JEANETTE JUAREZ	-300,000.00
1/10/2024	1/3/2024	RW	1744521	1704933	JEANETTE JUAREZ	-900,000.00
1/12/2024	1/11/2024	QRD	1745854	N/A	SYSTEM	585,776.64

**Account Summary**

Total Deposit:	585,776.64	Beginning Balance:	55,502,636.98
Total Withdrawal:	-1,200,000.00	Ending Balance:	54,888,413.62



Argent Institutional Trust  
 5901 Peachtree Dunwoody Ste C495  
 Atlanta, GA 30328

# ACCOUNT STATEMENT

ACCOUNT NUMBER: [REDACTED]  
 JANUARY 01, 2024 TO JANUARY 31, 2024

5

VALLEY SANITARY DISTRICT  
 ATTN: BUSINESS SERVICES MANAGE  
 45500 VAN BUREN ST  
 INDIO CA 92201-3435

1-1-5



ACCOUNT NAME:	<b>VALLEY SANITARY DISTRICT BANC OF AMERICA PUBLIC CAPITAL CORP</b>
ACCOUNT NUMBER:	[REDACTED]
ADMINISTRATIVE OFFICER:	[REDACTED]
INVESTMENT OFFICER:	<b>DIRECTED</b>

2024 FEB 12 7:47

## YOU, FIRST.

Thank you for your business. If you have questions about your account statement, please contact your Administrative Officer listed in the shaded box at the top of this statement.

### \*\*\*IMPORTANT NOTICE\*\*\*

Argent Institutional Trust-formerly TMI- has changed accounting platforms. Be advised your account number [REDACTED]

ACCOUNT NUMBER: [REDACTED]  
 JANUARY 01, 2024 TO JANUARY 31, 2024

## ACCOUNT ACTIVITY SUMMARY

	THIS PERIOD	YEAR TO DATE
<b>BEGINNING MARKET VALUE</b>	39,927,046.21	39,927,046.21
DEPOSITS	167,458.24	167,458.24
DISBURSEMENTS	1,516,605.82-	1,516,605.82-
<b>ENDING MARKET VALUE</b>	38,577,898.63	38,577,898.63

## PORTFOLIO HOLDINGS

QUANTITY	DESCRIPTION	MARKET VALUE	COST BASIS
<b>CASH AND EQUIVALENTS</b>			
38,577,898.630	38141W257 GOLDMAN SACHS FINANCIAL SQUARE GOVERNMENT FUND	38,577,898.63	38,577,898.63
<b>TOTAL</b>	<b>CASH AND EQUIVALENTS</b>	38,577,898.63	38,577,898.63
<b>GRAND TOTAL ASSETS</b>		38,577,898.63	38,577,898.63

## TRANSACTION DETAIL

DATE	DESCRIPTION	CASH	COST	GAIN / LOSS
01/01/24	<b>BEGINNING BALANCE</b>	0.00	39,927,046.21	
01/02/24	38141W257 RECEIVED 167,458.24 GOLDMAN SACHS FINANCIAL SQUARE GOVERNMENT FUND ASSET RECEIVED DUE PLATFORM TRANSITION. REPRESENTS DIVIDEND REINVESTMENT MARKET VALUE 167,458.24	0.00	167,458.24	
01/23/24	PAID VIA WIRE LEIGHTON CONSULTING INC	15,931.75-		
01/23/24	PAID VIA WIRE SCHNEIDER ELECTRIC BUILDINGS AMERICAS INC	1,500,674.07-		
	38141W257 NET WITHDRAWAL GOLDMAN SACHS FINANCIAL SQUARE GOVERNMENT FUND	1,516,605.82	1,516,605.82-	
01/31/24	<b>ENDING BALANCE</b>	0.00	38,577,898.63	0.00


ACCOUNT NUMBER [REDACTED]  
JANUARY 01, 2024 TO JANUARY 31, 2024

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## DISCLOSURE

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Pricing for securities traded on the exchange is provided by third party sources. While sources used for pricing publicly traded securities are considered reliable, the prices displayed on your statement may or may not be based on actual trades, bid/ask information or vendor evaluations. As such, the prices displayed on your statement may or may not reflect actual trade prices you would receive in the current market. It is possible prices for certain securities may vary widely at the time of trade execution in comparison to valuation prices displayed for statement purposes. Securities not traded on an exchange are valued by a variety of sources, which may include issuer-provided or client-provided information. As such, the current statement will reflect the value of the asset based on its last known valuation which may not coincide with the statement reporting period. Argent Trust Company, or any of its affiliates, does not guarantee the accuracy, reliability, completeness or attainability of any pricing information provided by third party sources.



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CalTRUST  
 PO Box 2709  
 Granite Bay, CA 95746  
 www.caltrust.org  
 Email: admin@caltrust.org  
 Fax: 402-963-9094  
 Phone: 833-CALTRUST (225-8787)

## Investment Account Summary

01/01/2024 through 01/31/2024

### SUMMARY OF INVESTMENTS

Fund	Account Number	Total Shares Owned	Net Asset Value per Share on Jan 31 (\$)	Value on Jan 31 (\$)	Average Cost Amount (\$)	Cumulative Change in Value (\$)
VALLEY SANITARY DISTRICT	[REDACTED]					
CalTRUST Medium Term Fund	[REDACTED]	112,546.662	9.82	1,105,208.22	1,135,336.16	(30,127.94)
<b>Portfolios Total value as of 01/31/2024</b>				<b>1,105,208.22</b>		

### DETAIL OF TRANSACTION ACTIVITY

Activity Description	Activity Date	Amount (\$)	Amount in Shares	Balance in Shares	Price per Share (\$)	Balance (\$)	Average Cost Amt (\$)	Realized Gain/(Loss) (\$)
		<b>VALLEY SANITARY DISTRICT</b>					<b>Account</b>	
Beginning Balance	01/01/2024			112,154.837	9.82	1,101,360.50		
Accrual Income Div Reinvestment	01/31/2024	3,847.72	391.825	112,546.662	9.82	1,105,208.22	0.00	0.00
Change in Value						0.00		
<b>Closing Balance as of</b>	<b>Jan 31</b>			<b>112,546.662</b>	<b>9.82</b>	<b>1,105,208.22</b>		

Please note that this information should not be construed as tax advice and it is recommended that you consult with a tax professional regarding your account.



**Valley Sanitary District**

**DATE:** March 12, 2024  
**TO:** Board of Directors  
**FROM:** Jeanette Juarez, Chief Administrative Officer  
**SUBJECT:** MONTHLY FINANCIAL REPORT FOR THE PERIOD ENDING JANUARY 31, 2024

---

**Suggested Action**

Approve

**Strategic Plan Compliance**

GOAL 5: Long-Term Financial Strength

**Fiscal Impact**

There is no fiscal impact from this report.

**Environmental Review**

This item does not qualify as a project as defined by the California Environmental Quality Act (CEQA).

**Background**

The adopted operating and capital budget for the fiscal year 2023/24 includes \$19,897,685 in revenues and \$18,622,894 in operating expenditures.

The attached Monthly Income Summary (Attachment A) and Budget Variance (Attachment B) report compare revenues and expenses to the respective line-item budgets. The report identifies current monthly revenues and expenses as well as fiscal year-to-date (FYTD) values.

**Year-to-Date Summary**

- As of January 31, 2024, the District has recorded \$22,172,107 in revenue. The revenues are \$4,093,278, or 22.6% above the seasonal budget.
- As of January 31, 2024, the District has incurred \$8,849,731 in expenditures. The District's expenditures are \$2,013,624 or 18.5% under the FYTD straight-line budget.

The Summary of Cash and Investments (Attachment C) report details the changes to the fund balances by fund type.

<b>FUND</b>	<b>UNAUDITED FIND BALANCE AS OF 1/31/24</b>
OPERATING FUND (FUND 11)	\$28,714,032
SPECIAL REVENUE FUND (FUND 11 AND FUND 6)	1,105,989
FIDUCIARY FUND (FUND 4)	597,901
CAPITAL IMPROVEMENT FUND (FUND 13)	12,038,045
RESTRICTED CIP FUND (FUND 12)	26,187,482
<b>TOTAL</b>	<b>\$68,643,449</b>

**Recommendation**

Approve the monthly financial report for the period ending January 31, 2024.

**Attachments**

[8.5 Attachment A Monthly Income Summary - January 2024.pdf](#)

[8.5 Attachment B Budget Variance Report.pdf](#)

[8.5 Attachment C Summary of Cash and Investments - January 2024.pdf](#)

# Valley Sanitary District

## Monthly Income Summary

### January 2024 (UNAUDITED)

	<u>Current Month</u>	<u>Fiscal YTD</u>	<u>Annual Projection</u>	<u>% Received</u>	<u>Balance</u>
<b>Revenues</b>					
Sewer Service Chgs-Current	\$112,542	\$18,664,919	\$17,066,857	109 %	(\$1,598,062)
Sewer Service Chgs-Penalties	\$0	\$1,103	\$0	0 %	(\$1,103)
Permit & Inspection Fees	\$605	\$12,020	\$20,817	58 %	\$8,797
Saddles/Disconnect Fees	\$80	\$240	\$243	99 %	\$3
Plan Check Fees	\$600	\$4,650	\$8,800	53 %	\$4,150
Other Services	\$330	\$1,450	\$1,568	92 %	\$118
Sale of Surplus Property	\$0	\$0	\$21,274	0 %	\$21,274
Taxes - Current Secured	\$440,659	\$709,450	\$615,751	115 %	(\$93,699)
Taxes - Current Unsecured	\$0	\$42,893	\$37,592	114 %	(\$5,301)
Taxes - Prior Secured	\$0	\$0	\$8,168	0 %	\$8,168
Supple Prop. Taxes - Current	\$12,610	\$12,740	\$14,478	88 %	\$1,738
Supple Prop. Taxes - Prior	\$13,308	\$13,308	\$8,653	154 %	(\$4,655)
Homeowners Tax Relief	\$0	\$1,005	\$3,552	28 %	\$2,547
Interest Income	\$190,872	\$501,425	\$419,905	119 %	(\$81,520)
Unrealized gains (losses)	\$0	\$15,661	\$0	0 %	(\$15,661)
Rebate Income	\$2,239	\$2,239	\$2,278	98 %	\$39
Non-Operating Revenues - Fnd 11	\$2,800	\$32,522	\$28,876	113 %	(\$3,646)
Interest Income	\$273,548	\$973,009	\$622,164	156 %	(\$350,845)
Connection Fees	\$457,416	\$765,537	\$767,790	100 %	\$2,254
Interest Income	\$122,285	\$417,935	\$248,919	168 %	(\$169,016)
<b>Total Revenues</b>	<b>\$1,629,894</b>	<b>\$22,172,107</b>	<b>\$19,897,685</b>	<b>111 %</b>	<b>(\$2,274,422)</b>

Valley Sanitary District  
Budget Variance Report  
January 2024

Description	FY24 Total Budget	Current Month			Fiscal Year to Date			
		Actual	Budget	Favorable (Unfavorable)	FYTD Actual	FY24 YTD Budget	Favorable (Unfavorable)	Percentage Remaining
<b>Operating Expenses:</b>								
Wages	4,201,039	312,846	350,087	37,240	2,364,849	2,450,606	85,757	43.7%
Fringe Benefits	1,682,004	126,934	140,167	13,233	875,478	981,169	105,691	48.0%
Services	2,243,542	90,489	186,962	96,472	603,686	1,308,733	705,047	73.1%
Supplies and Materials	1,828,990	122,996	152,416	29,420	767,771	1,066,911	299,140	58.0%
Fuels and Lubricants	70,000	3,403	5,833	2,430	26,232	40,833	14,601	62.5%
Comprehensive Insurance	525,926	36,595	43,827	7,232	259,824	306,790	46,967	50.6%
Projects	464,000	22,414	38,667	16,253	62,057	270,667	208,610	86.6%
Utilities	1,081,000	97,495	90,083	(7,411)	613,096	630,583	17,487	43.3%
Debt Service	5,270,359	439,197	439,197	-	3,074,376	3,074,376	-	41.7%
Permits and Fees	148,870	18,329	12,406	(5,923)	56,066	86,841	30,775	62.3%
Unfunded Accrued Liability	712,721	-	59,393	59,393	-	415,754	415,754	100.0%
Other	394,443	15,766	32,870	17,104	146,296	230,092	83,795	62.9%
<b>Total Operating Expenses (Before Depreciation)</b>	<b>18,622,894</b>	<b>1,286,464</b>	<b>1,551,908</b>	<b>265,444</b>	<b>8,849,731</b>	<b>10,863,355</b>	<b>2,013,624</b>	<b>52.5%</b>
<b>Revenues:</b>								
Operating Revenue	17,887,349	571,573	393,911	177,662	19,449,918	16,906,133	2,543,785	-8.7%
Non-Operating Revenue	2,010,336	1,058,321	167,528	890,793	2,722,189	1,172,696	1,549,493	-35.4%
<b>Total Revenue</b>	<b>19,897,685</b>	<b>1,629,894</b>	<b>561,439</b>	<b>1,068,455</b>	<b>22,172,107</b>	<b>18,078,829</b>	<b>4,093,278</b>	<b>-11.4%</b>
<b>Net Operating Gain (Loss)</b>		<b>343,430</b>			<b>13,322,376</b>			

Valley Sanitary District  
 Budget Variance Report  
 January 2024

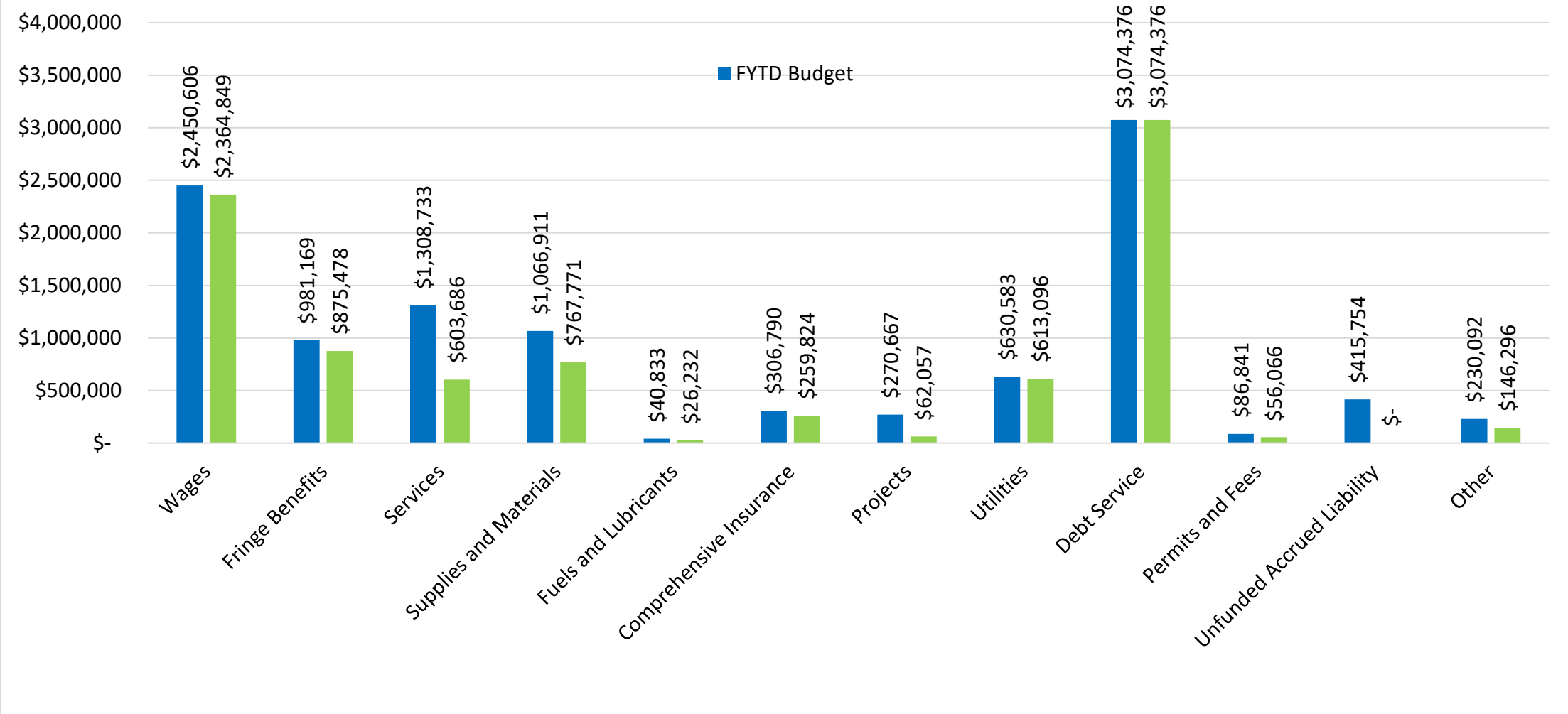
Description	FY24 Total Budget	Current Month			Fiscal Year to Date			Percentage Remaining
		Actual	Budget	Favorable (Unfavorable)	FYTD Actual	FY24 YTD Budget	Favorable (Unfavorable)	
<b>Revenues:</b>								
Operating Revenue	17,887,349	571,573	393,911	177,662	19,449,918	16,906,133	2,543,785	-8.7%
Non-Operating Revenue	2,010,336	1,058,321	167,528	890,793	2,722,189	1,172,696	1,549,493	-35.4%
<b>Total Operating Revenue</b>	<b>19,897,685</b>	<b>1,629,894</b>	<b>561,439</b>	<b>1,068,455</b>	<b>22,172,107</b>	<b>18,078,829</b>	<b>4,093,278</b>	<b>-11.4%</b>

Valley Sanitary District  
Budget Variance Report  
January 2024

Description	FY24 Total Budget	Current Month			Fiscal Year to Date			Percentage Remaining
		Actual	Budget	Favorable (Unfavorable)	FYTD Actual	FY24 YTD Budget	Favorable (Unfavorable)	
<b>Operating Expenses:</b>								
Salaries And Wages	3,934,350	300,333	327,863	27,530	2,256,782	2,295,038	38,256	42.6%
Director Fee/Payroll Tax-Board	113,400	1,500	9,450	7,950	24,000	66,150	42,150	78.8%
Other Employee Benefits	18,850	700	1,571	871	14,211	10,996	(3,215)	24.6%
Overtime	42,100	2,942	3,508	566	17,780	24,558	6,779	57.8%
Callout	25,000	1,727	2,083	356	13,201	14,583	1,382	47.2%
Standby Pay	67,339	5,644	5,612	(33)	38,876	39,281	406	42.3%
Longevity	46,700	3,692	3,892	199	26,400	27,242	841	43.5%
Retirement Contributions	430,527	31,952	35,877	3,925	233,772	251,141	17,369	45.7%
Fica And Medicare	381,004	23,798	31,750	7,952	177,040	222,252	45,212	53.5%
Life Insurance	8,580	701	715	14	4,864	5,005	141	43.3%
Health Insurance	738,840	60,698	61,570	872	392,593	430,990	38,397	46.9%
Dental Insurance	55,380	4,398	4,615	217	29,212	32,305	3,093	47.3%
Vision Insurance	8,601	678	717	39	4,556	5,017	461	47.0%
Long Term Disability	12,372	1,016	1,031	15	7,040	7,217	177	43.1%
Accounting Services-Admin	81,761	2,691	6,813	4,123	49,452	47,694	(1,758)	39.5%
Certifications	23,720	525	1,977	1,452	3,544	13,837	10,292	85.1%
Chemicals	700,000	52,265	58,333	6,068	349,286	408,333	59,048	50.1%
Comprehensive Insurance	437,563	29,669	36,464	6,795	209,261	255,245	45,984	52.2%
Conferences/ Meetings	210,455	5,902	17,538	11,636	73,913	122,765	48,852	64.9%
Contracts	1,763,359	68,003	146,947	78,943	417,083	1,028,626	611,543	76.3%
County Expense	23,100	16,254	1,925	(14,329)	16,962	13,475	(3,487)	26.6%
Covid-19 Supplies	11,000	87	917	830	468	6,417	5,949	95.7%
Electric	999,000	92,984	83,250	(9,734)	580,887	582,750	1,863	41.9%
Gas, Oil & Fuel	70,000	3,403	5,833	2,430	26,232	40,833	14,601	62.5%
Grit & Screening Removal	44,000	2,392	3,667	1,275	17,536	25,667	8,130	60.1%
Legal Services	85,000	7,726	7,083	(643)	41,049	49,583	8,535	51.7%
Debt Service	5,270,359	439,197	439,197	-	3,074,376	3,074,376	-	41.7%
Medical Services	4,843	165	404	239	3,787	2,825	(962)	21.8%
Memberships	65,268	8,568	5,439	(3,129)	35,700	38,073	2,373	45.3%
Misc. Professional Services	138,483	3,000	11,540	8,541	47,121	80,782	33,661	66.0%
Natural Gas	8,000	701	667	(34)	2,381	4,667	2,286	70.2%
Office Supplies	26,500	296	2,208	1,912	7,478	15,458	7,980	71.8%
Opeb Contribution	82,119	1,099	6,843	5,744	8,141	47,903	39,762	90.1%
Other Expenses	83,000	771	6,917	6,146	30,138	48,417	18,278	63.7%
Permits & Fees	125,770	2,075	10,481	8,406	39,104	73,366	34,262	68.9%
Projects	464,000	22,414	38,667	16,253	62,057	270,667	208,610	86.6%
Publications	3,500	34	292	258	1,002	2,042	1,039	71.4%
Repairs & Maintenance	699,170	57,262	58,264	1,002	297,494	407,849	110,355	57.5%
Research & Monitoring	101,500	2,546	8,458	5,912	22,104	59,208	37,104	78.2%
Supplies	262,820	10,015	21,902	11,886	86,134	153,312	67,178	67.2%
Telephone/Internet	37,934	3,884	3,161	(723)	21,512	22,128	616	43.3%
Tools & Equipment	28,000	524	2,333	1,809	4,807	16,333	11,526	82.8%
Tuition Reimbursement	12,000	-	1,000	1,000	3,000	7,000	4,000	75.0%
Uniform Services	46,543	3,888	3,879	(9)	14,538	27,150	12,612	68.8%
Unfunded Accrued Liability	712,721	-	59,393	59,393	-	415,754	415,754	100.0%
Water	30,000	1,418	2,500	1,082	12,291	17,500	5,209	59.0%
Workers Compensation	88,363	6,927	7,364	437	50,563	51,545	982	42.8%
<b>Total Operating Expenses (Before Depreciatio</b>	<b>18,622,894</b>	<b>1,286,464</b>	<b>1,551,908</b>	<b>265,444</b>	<b>8,849,731</b>	<b>10,863,355</b>	<b>2,013,624</b>	<b>52.5%</b>
<b>Operating Expenses in Excess of Operating Revenue</b>		<b>343,430</b>			<b>13,322,376</b>			



# FISCAL YEAR-TO-DATE VS. FISCAL YEAR-TO-DATE ACTUAL JANUARY 2024



**SUMMARY OF CASH AND INVESTMENTS**

FOR THE PERIOD: 01/01/2024 TO 01/31/2024 (UNAUDITED)

Agenda Item No. \_\_\_\_\_

**INVESTMENTS**

LAIF Fund 4 - Agency Fund		
Beginning Balance (Fund 4)	275,908	
Net Transfer from (to) Fund 11	319,081	
Fair Value Factor for quarter ending 06/30/2024	0	
Interest (Pd quarterly - Int. Rate 4.00%)	2,912	
<b>Fund 04 Ending Balance</b>		<b>597,901</b>
LAIF Fund 6 - Wastewater Revenue Refunding Bonds		
Beginning Balance (Fund 6)	773	
Net Transfer from (to) Fund 11	0	
Fair Value Factor for quarter ending 06/30/2024	0	
Interest (Pd quarterly - Int. Rate 4.00%)	8	
<b>Fund 06 Ending Balance</b>		<b>781</b>
LAIF Fund 10 - Recycled Water Project		
Beginning Balance (Fund 10)	0	
Net Transfer from (to) Fund 11	0	
Fair Value Factor for quarter ending 06/30/2024	0	
Interest (Pd quarterly - Int. Rate 4.00%)	0	
<b>Fund 10 Ending Balance</b>		<b>0</b>
LAIF Fund 11 - Operating Fund		
Beginning Balance (Fund 11)	17,720,612	
Net Transfer from (to) Fund 04	(319,081)	
Net Transfer from (to) Fund 06	0	
Net Transfer from (to) Fund 12	4,836	
Net Transfer from (to) Fund 13	(329,186)	
Fund Transfer from (to) LAIF - WF	(1,200,000)	
Fair Value Factor for quarter ending 06/30/2024	0	
Interest (Pd quarterly - Int. Rate 4.00%)	187,023	
<b>Fund 11 Ending Balance</b>		<b>16,064,204</b>
LAIF Fund 12 - Reserve Fund		
Beginning Balance (Fund 12)	25,918,770	
Net Transfer from (to) Fund 11	(4,836)	
Fair Value Factor for quarter ending 06/30/2024	0	
Interest (Pd quarterly - Int. Rate 4.00%)	273,548	
<b>Fund 12 Ending Balance</b>		<b>26,187,482</b>
LAIF Fund 13 - Capital Improvement Fund		
Beginning Balance	11,586,574	
Connection Fees	457,416	
(Disbursements) or Reimbursements	(128,230)	
Net Transfer from (to) Fund 11	329,186	
Fair Value Factor for quarter ending 06/30/2024	0	
Interest (Pd quarterly - Int. Rate 4.00%)	122,285	
<b>Fund 13 Ending Balance</b>		<b>12,038,045</b>
<b>TOTAL LAIF INVESTMENTS: FUNDS 04, 06, 11, 12 AND 13</b>		<b>54,888,413</b>

**CASH IN CHECKING ACCOUNT**

**WELLS FARGO - FUND 11**

Beginning Balance	2,089,374	
Deposits	10,729,741	
Fund Transfer from (to) LAIF (net)	1,200,000	
Disbursements and Payroll	(1,369,287)	
<b>Wells Fargo Ending Balance</b>		<b>12,649,828</b>

**CALTRUST - FUND 11**

Beginning Balance	1,101,360	
Interest Income	3,848	
Unrealized Gain / <Loss>	0	
<b>CalTRUST Ending Balance</b>		<b>1,105,208</b>

<b>TOTAL WELLS FARGO AND CALTRUST CHECKING</b>		<b>13,755,036</b>
<b>TOTAL CASH AND INVESTMENTS</b>		<b>68,643,449</b>

The Board certifies the ability of the District to meet its expenditure requirements for the next six (6) months, as per Government Code 53646(b)(3).

This report is in compliance with the District's Investment Policy under Government Code 53646(b)(2).



**Valley Sanitary District**

**DATE:** March 12, 2024  
**TO:** Board of Directors  
**FROM:** Ron Buchwald, District Engineer  
**SUBJECT:** DISPOSITION OF 2004 VACTOR 2100 TRUCK THROUGH SALE ON GOVDEALS

---

**Suggested Action**

Approve

**Strategic Plan Compliance**

GOAL 3: Excellent Facilities

**Fiscal Impact**

The vactor truck will be listed on GovDeals at a starting bid of \$20,000.

**Environmental Review**

This item does not qualify as a project as defined by the California Environmental Quality Act (CEQA).

**Background**

In January 2024 the District purchased a new vactor truck for the Sanitation Collections department. Staff is requesting to retire the 2004 Vactor 2100 truck through a sale on GovDeals. The vactor truck has surpassed its useful life and the new truck is being used in its place.

**Recommendation**

Approve the disposition of 2004 Vactor 2100 truck through sale on GovDeals.

**Attachments**

[8.6 Attachment A Equipment Disposition Form.pdf](#)

## VALLEY SANITARY DISTRICT EQUIPMENT DISPOSITION FORM

(This form is to be completed upon the disposition of fixed assets, including equipment for surplus)

Date of Disposition: <u>3/12/2024</u>	
Department: <u>Collections System</u>	Location: <u>VSD</u>

Justification for Disposition: <u>No longer required.</u>

Item #	Asset Tag #	Serial #	Description	Current Location	Value \$
1	<u>04</u>	<u>1HTWGADT24J026232</u>	<u>/2004 Vactor 2100</u>	<u>VSD</u>	<u>20,000</u>
2					
3					
4					
5					
6					
7					
8					
9					
10					

Check One:

<input type="checkbox"/> Sold (Please attach supporting documentation and sale value.)
<input type="checkbox"/> Lost (Please include complete description of circumstances surrounding loss.)
<input type="checkbox"/> Donated to outside organization (Please attach supporting documentation.)
<input type="checkbox"/> Traded In (Please attach supporting documentation.)
<input type="checkbox"/> Reassigned for use as source of parts
<input type="checkbox"/> Stolen (Please attach police report or complete description of circumstances.)
<input type="checkbox"/> Destroyed (Please include complete description of circumstances.)
<input checked="" type="checkbox"/> Declared Surplus (Please attach documentation of Board Action)
<input type="checkbox"/> Other, Please explain:

Department Supervisor: <u>Herberto Morais</u>	General Manager:
District Board Action:	

## Tito Moreno

---

**From:** George Lopez <georgel@haaker.com>  
**Sent:** Tuesday, February 20, 2024 5:00 PM  
**To:** Tito Moreno  
**Subject:** Re: International Vactor 2100 Value Price

Hi Tito,

My inside sales team is telling me that the a good starting price is \$15,000.00- \$20,000.00. Hope this helps sir!!

George Lopez

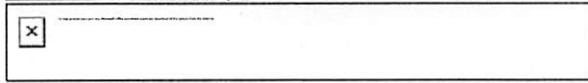
Sales Representative

Haaker Equipment Co | Total Clean

Office: (909) 598-2706 | Cell: (951) 258-7617

[georgel@haaker.com](mailto:georgel@haaker.com)

[www.haaker.com](http://www.haaker.com) | [www.totalcleanequip.com](http://www.totalcleanequip.com)



**"Nobody works harder for you than Haaker."**



On Feb 20, 2024, at 1:27 PM, Tito Moreno <tito@valley-sanitary.org> wrote:

Hello George,

Per our conversation, the following is the vehicle information as requested:

Ser# 04-03V-8858, Year 2004, PTO Hours 18,331, Odometer 138,472

Unit will be sold As-Is.

Much Appreciated,

**Heberto "Tito" Moreno**

Sewer Collection System Supervisor



45500 Van Buren Street, Indio, CA 92201  
760-238-5400 | Mobile 760 497 2959

[tmoreno@valley-sanitary.org](mailto:tmoreno@valley-sanitary.org)  
[www.valley-sanitary.org](http://www.valley-sanitary.org)



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## Valley Sanitary District

**DATE:** March 12, 2024

**TO:** Board of Directors

**FROM:** Jeanette Juarez, Chief Administrative Officer

**SUBJECT:** **AUTHORIZE THE GENERAL MANAGER TO NEGOTIATE AND EXECUTE A CONTRACT WITH GEORGE PETERSON INSURANCE AGENCY FOR THE PURCHASE OF THE BUSINESS PACKAGE POLICY IN AN AMOUNT NOT TO EXCEED \$195,832**

---

### **Suggested Action**

Approve

### **Strategic Plan Compliance**

GOAL 6: Improve Planning, Administration and Governance

### **Fiscal Impact**

The financial impact of \$195,832 is included in the proposed operating budget for the fiscal year 2023/24 and will be included in the fiscal year 2024/25 operating budget request.

### **Environmental Review**

This item does not qualify as a project as defined by the California Environmental Quality Act (CEQA).

### **Background**

Hugh Curtis from George Petersen Insurance Agency will present the Business Package Policy renewal information. The Business Package Policy includes the Property, General Liability, Management Liability, Inland Marine, Auto and Umbrella coverage. The proposed renewal for April 1, 2024 – April 1, 2025 is \$195,832.

### **Recommendation**

Authorize the General Manager to negotiate and execute a contract with George Peterson Insurance Agency for the purchase of the Business Package Policy in an amount not to exceed \$195,832.

### **Attachments**

[9.1 Attachment A Valley Sanitary CPKG Quote Proposal on GP Letterhead.docx](#)  
[9.1 Attachment B VSD Invoice.docx](#)



February 27, 2024

Valley Sanitary District  
45-500 Van Buren  
Indio, CA 92201

Dear Jason and Jeanette:

The Business Package policy for Valley Sanitary District will renew this year on April 1, 2024.

You will remember that we renewed this last July on a nine-month basis since the JPRIMA program uses a common April 1<sup>st</sup> effective date. The renewal term will be 4/1/2024 – 4/1/2025.

Enclosed is the renewal quote for the Package, Commercial Automobile and the Umbrella. Also attached is the Statement of Values, including the Inland Marine scheduled and unscheduled coverages. The vehicle list is included in the Automobile quote.

Major capacity problems have developed in the California insurance market which have affected all lines of insurance. Allied Public Risk, the Program Administrator for our insurance program, is now utilizing Munich Reinsurance Corporation as the sole carrier for all lines in the portfolio of coverage we have. I have worked with Paul Fuller to make sure we have the same broad coverage as in the past. We have had to amend some of the building values to more adequately reflect replacement cost and have also included the exposure changes.

The property Total Insured Value has increased to \$43,089,549 (up from \$39,006,621 last year) and the Inland Marine schedule has remained the same at \$1,482,338. The minimum deductible for Property and Inland Marine is now \$5,000, which is up from \$1,000 previously.

The primary general liability coverage has an occurrence limit of \$1,000,000 and an annual aggregate of \$10,000,000. Extension of liability limits on all policies is through an umbrella policy with limits of \$10,000,000 per occurrence and \$10,000,000 aggregate.

The Commercial Automobile coverage provides a \$1,000,000 Combined Single Liability limit of \$1,000,000, and covers the vehicles on the attached spreadsheet. The Comprehensive and Collision deductibles are \$1,000 each.

Per the attached memorandum of coverage, Commercial Crime and Public Officials Management Liability (including EPLI) is also included. The Commercial Crime coverage provides the following:

Employee Theft	\$500,000
Forgery or Alteration	\$250,000
Theft of Money & Securities (inside premises)	\$250,000
Theft of Money & Securities (outside premises)	\$250,000
Robbery/Safe Burglary	\$100,000
Computer & Funds Transfer Fraud	\$250,000
Money Orders/Counterfeit Money	\$250,000

Additionally, the Public Officials Management Liability section provides the following:

Wrongful Acts	\$1,000,000
Employment Practices Liability	included in limit
Employee Benefits Liability	included in limit

The minimum deductible for any EPLI-related claim is now \$25,000.

The overall business package renewal premium is \$195,832, which includes a commission reduction and reinsurance fee of \$8,510. The premium change this year also includes reinsurance loads for wildfire exposure and capacity, and reflects the cost of the rise in number of Inverse Condemnation claims, EPLI and D&O litigation, as well as the inflationary costs and services for first and third party claims.

To bind coverage, please sign and date the attached State of Values and Supplemental Application, and return along with your payment in the amount of \$195,832. Our invoice is also attached.

The Earthquake and Cyber Liability coverages are written separately, and those policies will come up for renewal effective July 1, 2024. I will get back in touch with you when those quotes are available.

Thank you for allowing us the privilege of providing this coverage for Valley Sanitary District. I will be happy to answer any questions you or the Board may have. As always, I appreciate your business and value you as a client.

Sincerely,



Hugh K. Curtis

PO Box 3539  
 Santa Rosa, CA 95402  
 707.525.4150 | Fax: 707.525.4175  
 www.gpins.com  
 License # 0603247

DATE 2/27/2024  
 ACCOUNT # VALLSAN-01  
 POLICY # TBD  
 COMPANY Allied World Specialty Insurance Company

Valley Sanitary District  
 45-500 Van Buren  
 Indio CA 92201

PRODUCER Hugh Curtis  
 ACCOUNT REPRESENTATIVE Tina Eads

NAME OF INSURED Valley Sanitary District  
 POLICY NUMBER TBD  
 POLICY PERIOD 4/1/2024 - 4/1/2025

ITEM #	EFFECTIVE DATE	TYPE	DESCRIPTION	AMOUNT
1	04/01/2024	Renewal	Pkg/Auto/Umbrella	\$170,202.00
2	04/01/2024	Renewal	JPRIMA Admin Fees	\$17,120.00
3	04/01/2024	Renewal	Commission Recovery Fee	\$8,510.00

**INVOICE BALANCE:** \$195,832.00

**BALANCE DUE ON:** March 25, 2024

To pay your bill online visit [gpins.epaypolicy.com](http://gpins.epaypolicy.com)

Please make check payable to:

George Petersen Insurance Agency  
 PO Box 3539  
 Santa Rosa, CA 95402

Thank you!



## Valley Sanitary District

**DATE:** March 12, 2024  
**TO:** Board of Directors  
**FROM:** Ron Buchwald, District Engineer  
**SUBJECT:** AWARD OF CONTRACT TO PREPARE A RECYCLED WATER PROJECT FEASIBILITY STUDY TO HOCH CONSULTANTING, INC. FOR A TWO-YEAR TERM FOR A NOT TO EXCEED AMOUNT OF \$388,415.50.

---

### **Suggested Action**

Approve

### **Strategic Plan Compliance**

GOAL 2: Increase Recycling, Reuse, and Sustainability

### **Fiscal Impact**

The fiscal impact of this contract award of \$388,415.50. The District has received a Planning Grant from the State Water Resources Control Board for \$500,000 and is line to receive funding from the USBR to perform this feasibility study, estimated at \$280,439. The grants will more than cover the cost of this contract.

### **Environmental Review**

This item does not qualify as a project as defined by the California Environmental Quality Act (CEQA). A Portion of the Feasibility Study will be addressing CEQA needs in the future if the project progresses.

### **Background**

Staff has prepared a Request for Proposals (RFP) to prepare a Recycled Water Project Feasibility Study. This project will develop a One (1) MGD tertiary treatment facility that can be expandable and will use a portion of the secondary effluent treated wastewater from VSD's Water Reclamation Facility as a source. The project is expected to produce and carry one MGD of tertiary treated recycled water from VSD's treatment facility to the adjacent Fantasy Springs Resort where it will be used to irrigate the Eagle Falls Golf Course. This project will utilize a 14-inch diameter empty barrel of an existing inverted siphon owned by VSD that crosses under the Whitewater Storm Channel and I-10 Freeway to connect both properties. This project will include a reservoir and pumping station to store and transport the recycled water.

Staff released the RFP on January 23, 2024 with a deadline to receive the proposals by 4 PM on February 23, 2024. Staff received four (4) proposals from qualified consultants. Each of the proposals were reviewed to verify their qualifications and whether their proposal met the criteria set forth in the RFP. The following consultants submitted qualified proposals by the required deadline:

<b>FIRM</b>	<b>CORPORATE OFFICE</b>
Carollo Engineers	Costa Mesa, CA
Dudek	Encinitas, CA
Hoch Consulting	Oceanside, CA
T.R. Holliman and Associates	Highland, CA

Staff performed extensive due diligence on the four (4) proposals submitted. An evaluation of the proposals was performed by three (3) individual District staff members from two different departments independently reviewing each firm's qualifications and whether their respective proposed services met the evaluation criteria set forth in the RFP.

Based on total scores Hoch Consulting was deemed the most qualified. The evaluation panel recommends an award of contract to Hoch Consulting. Below is a summary of the final scoring:

<b>FIRM</b>	<b>EVALUATOR 1</b>	<b>EVALUATOR 2</b>	<b>EVALUATOR 3</b>	<b>TOTAL SCORE</b>
Hoch Consulting	82	70	81	77.67
Carollo Engineers	77	59	83	73
T.R. Holliman and Associates	83	44	84	70.33
Dudek	55	67	56	59.33

The scope of services for the proposed contract includes preparing a feasibility study to meet the State Water Resources Control Board grant requirements as well as the US Bureau of Reclamation feasibility study requirements. It also includes addressing environmental compliance regulations for both California Environmental Quality Act and National Environmental Policy Act.

**Recommendation**

1. Award a contract to prepare a recycled water project feasibility study to Hoch Consulting for a two-year term with an initial cost not to exceed \$388,415.50.
2. Authorize the General Manager to execute a professional services agreement with the consultant to facilitate the contract award.

**Attachments**

- [Hoch Consulting Technical Proposal.pdf](#)
- [Hoch Consulting Fee Proposal - Revised.pdf](#)
- [Hoch Consulting Noncollusion Form.pdf](#)



VSD

2024-0118



REQUEST FOR PROPOSALS FOR

# Recycled Water Project Feasibility Study

February 23, 2024 | 3:00pm



HOCH  
CONSULTING



February 23, 2024

A. COVER LETTER

Ron Buchwald, District Engineer  
Valley Sanitary District  
45500 Van Buren Street  
Indio, CA 92201

**RE: RESPONSE TO REQUEST FOR PROPOSALS | RECYCLED WATER PROJECT FEASIBILITY STUDY | 2024-0118**

Dear Ron Buchwald and Members of the Selection Committee:

Hoch Consulting (Hoch) is pleased to submit this proposal for engineering services to develop Valley Sanitary's Recycled Water Project Feasibility Study. With over a decade of dedication to various utilities and municipalities, we have consistently showcased our quality and commitment to our client's success. We combine our experience as well-rounded and nimble project managers with the technical expertise of our trusted colleagues to provide a best-in-class project team capable of organizing and analyzing myriads of data to make competent and trusted recommendations for critical local water projects. This phase of developing recycled water supplies for the District needs to be cost-conscious and involves tribal and environmental considerations in addition to technical considerations.

**A PROVEN TEAM.**

We propose to build upon the water supply work being completed by Carollo Engineers. Our approach is intended to provide a roadmap for the District to meet its short-term supply goals and allow for future expansion initiatives. The Feasibility Study will also position the District for Federal Funding to stretch precious financial resources. Our team will be led by Aaron Gress, who has over eleven years of experience managing water infrastructure projects. The team includes Cari Dale, as Principal-in-Charge, and additional members of the Hoch team who possess significant water resources experience and expertise with the Bureau of Reclamation and the State Water Resources Control Board. Our partners include **Trussell Technologies**, who has an unparalleled reputation for wastewater treatment and has been a leader in reuse projects in California, and **HELIX Environmental**, who has significant experience with environmental documentation and compliance with CEQA and NEPA regulations. Together, we have the right management, experience, expertise, and relationships to efficiently and effectively plan for the first phase of recycled water development for the District.

**TECHNICAL EXPERTISE.**

The development of a one MGD tertiary treatment facility and associated infrastructure requires a high level of technical expertise. Hoch Consulting boasts a team of skilled engineers and professionals with specialized knowledge in water treatment, distribution, and infrastructure design, ensuring that the project's technical requirements are met with precision and efficiency.

Thank you for your careful review and consideration of our qualifications. Our entire team looks forward to this opportunity, and I am personally committed as your main point-of-contact. Should you need further information or clarification, please do not hesitate to reach out to me at 858.431.9767 or email at ahoch@hochconsulting.com.

Sincerely,



Adam Hoch, PE, QSP, QISP, NASSCO PACP, LACP, MACP  
President

Hoch Consulting | Recycled Water Feasibility Study



We deliver more than just feasibility studies; we provide comprehensive blueprints for success.

**Legal Name of Organization.**

Hoch Consulting, APC

**Address.**

804 Pier View Way,  
Suite 100,  
Oceanside, CA 92054



**Authorized Individual Submitting the Proposal.**

Adam Hoch, President  
804 Pier View Way,  
Suite 100,  
Oceanside, CA 92054  
P: 858.431.9767  
E: ahoch@hochconsulting.com



**Contact Person Regarding the Proposal.**

Cari Dale, Director of Water Resources  
804 Pier View Way,  
Suite 100,  
Oceanside, CA 92054  
P: 760.650.6613  
E: cdale@hochconsulting.com



## B. PROPOSER STATEMENT OF QUALIFICATIONS

Describe the Proposer's resources, experience, and capabilities as they relate to providing the Services. Submit in the order identified below:

1. *Executive Summary.* An executive summary should briefly describe the Proposer's qualifications and ability to perform the Services.

# EXECUTIVE SUMMARY

**At Hoch, we do not guess. We listen, we investigate, and we plan. This is the foundation of a successful project.**

Hoch Consulting is a civil engineering firm that aims to provide its clients with practical, cost-effective, and high-quality engineering solutions. Our team draws from former municipal managers and engineers to provide a deep bench of technical experts that understand water resources and the challenges that exist in developing water supply projects in California. Our experience as former utility managers also provide us with unique insight into the obstacles that Valley Sanitary may be facing as you embark on this first phase of recycled water supply development. Over the past 12 years, we have been involved with numerous projects and programs to develop local water resources for our clients and have a proven track record of accomplishments.

Our Principal-in-Charge, Cari Dale, brings three decades of experience working in the municipal sector planning for and implementing a variety of water supply projects, including substantial recycled water treatment and conveyance initiatives during her time at the City of Oceanside. In addition to ensuring that our team executes the project according to the District's expectations, Cari will oversee the permitting and environmental tasks performed by our subconsultant HELIX environmental, be the primary liaison with community partners including the tribes and provide support and QA/QC of water resources narratives in the Feasibility Study.

Our Project Manager, Aaron Gress, is a registered Civil Engineer specializing in treatment and water quality analysis, and is proposed to lead our team, which includes additional Hoch staff with significant water supply development experience. Aaron will head the technical analysis and scope issues of the overall leadership for the project, manage meetings and workshops, and provide oversight of the secondary wastewater characterization and tertiary treatment technology evaluations. In addition, Aaron will be overseeing the work of Trussell Technologies, who have an unparalleled reputation for water reuse in California, and who will be providing technical expertise in characterizing the current performance of the VSD Water Reclamation Facility. Adam Hoch, who has over eighteen years of experience managing water infrastructure projects in southern California, is proposed to provide quality management and review of the project.

Our approach includes review of existing reports, studies and documents, and conducting field visits to verify site conditions. We have identified three core strategies for success including:



**SECONDARY WW CHARACTERIZATION,  
TECHNOLOGY SELECTION, & SITE PLANNING  
ALTERNATIVE EVALUATION ALTERNATIVE**



**ENVIRONMENTAL  
& PERMITTING  
EVALUATION**



**FUNDING  
ELIGIBILITY  
OPTIMIZATION**

**01 SECONDARY WW CHARACTERIZATION, TECHNOLOGY SELECTION, & SITE PLANNING ALTERNATIVE EVALUATION ALTERNATIVE**

We are proposing conducting a secondary wastewater characterization, performed by Trussell, to guide tertiary treatment alternative analysis. Both the evaluations to characterize secondary wastewater and the alternatives for tertiary treatment which will be summarized in Technical Memorandums and reviewed with VSD staff in a workshop setting before incorporation into the final Feasibility Study Report. Hoch will develop up to three site alternatives to include in the Feasibility Report.

**02 ENVIRONMENTAL & PERMITTING EVALUATION**

The Hoch team will also work closely with HELIX Environmental to outline potential environmental impacts that may need to be incorporated into CEQA/NEPA studies, paying particular attention to any created habitat in the Whitewater River and to outline needed permits for the project. We intend to work in partnership with VSD staff along the way through regular check-ins and also review the draft study at a Feasibility Study workshop. Our approach is intended to allow for the necessary technical study and report development, recognizing the upcoming grant deadline in the Planning Grant Agreement.

**03 FUNDING ELIGIBILITY OPTIMIZATION**

Hoch will develop a Feasibility Study which will meet the requirements of Bureau WTR 11-01 formatting guidelines. As a cost-conserving approach, preparing a crosswalk documentation to meet the requirements of the WRFPA. A task to evaluate recycled water market assurances, a section not required per WTR 11-01, will be developed to satisfy WRFPA needs. These key tasks will ensure that the project is eligible for key funding programs that can maximize grant, rebate, and low-interest loan awards.

Our proposal includes optional tasks to conduct a Multi-Objective Decision Analysis (MODA) evaluation to prioritize treatment options, based on performance and other district criteria and an IPR & DPR Feasibility Evaluation to better inform on future expansions of the tertiary treatment facility. Hoch is also proposing optional grant administration for both the WRFPA and Bureau of Reclamation grants, which are costs that can be reimbursed to the district by the grant awards.



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**Together, our team has the RIGHT MANAGEMENT, TECHNICAL EXPERIENCE and EXPERTISE, and RELATIONSHIPS TO EFFICIENTLY AND EFFECTIVELY PREPARE A FEASIBILITY STUDY FOR VALLEY SANITARY DISTRICT that meets short-term needs and well as those needs in the future.**

2. *Qualifications and Experience.*

- a. *Provide a description of how the Proposer’s experience, technical and professional skills will meet the goals and fulfill the general functions identified in this RFP.*

Hoch Consulting is committed to delivering high-value engineering, design, management, and funding services. With substantial experience in innovative water treatment solutions throughout California, we have earned a reputation for consistently exceeding client expectations, especially in executing challenging projects. Our approach centers on assembling teams of seasoned water treatment specialists with a unique blend of engineering, design, management, and construction expertise. This positions us perfectly to address the specific requirements outlined in developing a work plan for a comprehensive feasibility study.

**OUR MISSION: To provide high-value engineering, design, management, and funding solutions.**

Our dedicated team members excel in proactively identifying and resolving potential issues before they escalate. Hoch is not just a consulting firm; we are a partner dedicated to delivering value through a client-centric approach, innovative solutions, and a solid commitment to quality and community involvement. The Valley Sanitary District can count on us to provide exceptional engineering services, setting the stage for successful, cost-effective project.



**Our guiding principles are to provide technical expertise, creativity, accountability, integrity, and efficiency in everything we do.**

**Our difference.** Founded and led by former public utility managers, we operate with an owner’s perspective in every project, ensuring we deliver results exceeding our client’s expectations. Our reputation speaks to our role as a trusted teaming partner, and we are committed to providing exceptional service.

**Quality.** We deliver projects that not only meet but exceed client goals. Our proven track record on construction projects includes consistently achieving change order costs below industry averages through meticulous QA/QC reviews of plans and effective execution as construction managers.

**Our approach.** We prioritize our clients by actively listening and understanding their needs. This approach enables us to develop innovative solutions, proving us as a trusted partner.

**Experience.** As a small firm, we have proven ourselves by successfully completing impactful, community-shaping projects and programs throughout Southern California.

**Our track record speaks for itself.**

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12

Years in Business

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50+

Water Treatment Projects

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100%


Highly Qualified & Experienced Team

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SBE

Small Business Enterprise Certified

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**For over a decade, Hoch has helped public agencies identify sound solutions to their water and wastewater treatment and system needs in all areas of planning, analysis, design, and construction management.**

**SERVICES**

Water	Wastewater	Stormwater	Transportation
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Hoch was founded with the key mission of providing high-value municipal engineering services to public agencies. Staying true to this mission, 99% of our business is for public sector clients. We have helped public agencies throughout Southern California identify sound solutions for their water and wastewater system needs in areas of planning, analysis, design, and construction management. We have steadily expanded our firm’s capacity and capabilities over the past 12 years, and have a proven track record of commitment to care for our communities. Our team is experienced with all aspects of treatment, wastewater collection, conveyance, pumping, reuse, and recycling. **Clients appreciate our ability to collaborate closely and to develop cost-effective, affordable designs that not only reduce capital costs, but also consider operational costs over the life of the asset.**

**Recycled Water Planning Design Experience**

Hoch has worked throughout Southern California to improve our clients’ water and wastewater treatment plant systems. We have completed a variety of water, wastewater, and reuse master plans, studies, and water treatment plant-related designs in the past five Southern California. Our team brings the experience and depth of technical knowledge of a large firm, and the responsiveness and personal commitment of a small firm, to meet your treatment plant project needs. Hoch has completed or participated the completion of numerous water supply feasibility studies.

The Hoch, Trussell, and Helix team has worked together on a variety of projects and have experience developing all aspects of recycled water projects. The projects on the following pages are a small sample of successful water treatment projects our team has completed within the past five years. This volume of experience allows our team to make informed decisions quickly while avoiding typical pitfalls.



- » Recycled Water & Advanced Water Treatment
- » Hydraulic & Treatment Capacity Analysis
- » Rehabilitation, Upgrade, & Expansion of Existing Facilities
- » Analysis & Design for Disinfection Improvements
- » Chemical Feed Systems
- » Coagulation & Filtration Improvements
- » Primary & Secondary WW Process Design
- » UV Disinfection Design for Open Channel UV & Closed Reactor UV
- » Tertiary Treatment Planning & Design



b. Any key staff members who would be involved in the performance of the scope of work. Provide their resumes, describe their experience, and identify their proposed role for the Project.

Please find our key staff's resumes on the following pages 5-13.

c. State the number of years the firm has conducted business.

Hoch has been conducting business for 12 years in Sothern California.



VSD



**Cari Dale**

Principal-in-Charge &  
QA/QC Water Resources



**Adam Hoch, PE, QSP,**

QISP, NASSCO PACP,  
LACP, MACP  
Quality Management &  
Quality Review



**Aaron Gress, PE**

Project Manager

*Hoch offers the optional  
service of providing a Funding  
Administration Team*



FUNDING  
ADMINISTRATION

ENGINEERING  
SUPPORT

SUBCONSULTANTS



**Kyrsten Burr**

Funding  
Administration



**Richard Roth**

Engineering  
Support



**Amir Morales  
Daniel Torres  
Ezekiel Cooley  
Mary Robbins-Wade**



**Joni German**

Funding  
Administration



**Kathryn Calilan, EIT**

Engineering  
Support



**Lena Bagnol**

Engineering  
Support



**Shane Trussell  
Brett Faulkner  
Fernanda Baccaro**



# CARI DALE

## PRINCIPAL-IN-CHARGE

Cari brings over three decades of technical expertise and leadership in guiding the development and implementation of water supply programs and funding initiatives for various agencies in Southern California. She served as the Water Utilities Director for the City of Oceanside for over a decade, and has been instrumental in moving forward high-profile utility projects, such as San Diego County's first Potable Reuse Project, Pure Water Oceanside. Cari is skilled in navigating the Federal appropriations process and has a strong relationship with the Bureau of Reclamation staff. In her most recent role, she acted as the city's liaison to the tribes on the creation of a Groundwater Sustainability Agency and collaborated with tribal representatives on developing mutual legislation for water supplies.

<p><b>2</b></p> <p>YEARS WITH HOCH</p>	<p><b>31</b></p> <p>YEARS OF EXPERIENCE</p>
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### RELEVANT EXPERIENCE

#### **North San Diego County Regional Recycled Water Project, Bureau of Reclamation Feasibility Study and Facilities Plan** **City of Oceanside**

Partnered with ten water and wastewater agencies in North San Diego County to collaborate and plan for recycled water and alternative water supply projects in Northern San Diego County. Participated in efforts to develop a Regional Recycled Water Facilities Plan, which became the foundation for developing a Bureau of Reclamation Feasibility Study, and garnered funding from the Bureau of Reclamation and the Department of Water Resources (IRWM). A second Feasibility Study was submitted to the Bureau of Reclamation once funding for Phase I of the project was exhausted.

#### **San Luis Rey Valley Groundwater Recovery Project** **Rainbow Municipal Water District**

Key author of the Title XVI Feasibility Study to assess the technical, economic, environmental, regulatory and overall feasibility of a groundwater recovery project as a source of locally controlled water supply. The report is being written to conform to the Bureau of Reclamation requirements for feasibility studies, positioning the District to be eligible for federal funding.

#### **Pure Water Oceanside** **City of Oceanside**

Identified and pursued strategies, technical studies, funding and programs, including development of a Title XVI Feasibility Study, to further local water supply development in support of City Council's goal of 50% local supplies by 2030. Pure Water Oceanside was put into operation at the end of 2021 and is San Diego's first Indirect Potable Reuse (IPR) project.

#### **Brine Minimization and Well Expansion** **City of Oceanside**

Cari led the effort to author a Title XVI Feasibility Study to add a third Stage Reverse Osmosis Unit at the Mission Basin Groundwater Purification Facility and to construct additional extraction wells in the Mission Basin, which ultimately will increase local water supplies for the City.

### EDUCATION

B.A., Biology,  
*Macalester College*

M.S., Public Administration, (Water Resources Management), *California State University, San Bernardino*

### REGISTRATIONS/ ORGANIZATIONS

Recycled Water Advocate of the Year, *WaterReuse CA*, 2022

Pathogen Study, White House Water Summit, 2016

Women in Water

California Water Environment Association

WaterReuse

California Association of Sanitation Agencies

Association of California Water Agencies



# AARON GRESS, PE

## PROJECT MANAGER

Aaron Gress' solid background in civil and environmental engineering equips him with the expertise to navigate each project phase with precision. He has managed several water treatment projects and has designed groundwater treatment systems, including a wellhead treatment facility for uranium and other treatment processes for the removal of arsenic, iron, and manganese. Aaron has also participated in groundwater supply development program studies, water quality and treatment needs analysis, and a wastewater expansion evaluation.

<p><b>1</b></p> <p>YEARS WITH HOCH</p>	<p><b>11</b></p> <p>YEARS OF EXPERIENCE</p>
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### EDUCATION

B.S., Natural Resources and Environmental Sciences,  
*University of Illinois Urbana-Champaign*

M.S., Civil Engineering,  
*University of Illinois Urbana-Champaign*

### REGISTRATIONS / CERTIFICATIONS

Professional Engineer (Civil)  
California, #C86657

Professional Engineer (Civil)  
Oregon, #93850PE

Professional Engineer (Civil)  
Washington, #22021860

### RELEVANT EXPERIENCE

#### **1,2,3-Trichloropropane Removal Feasibility Study Honolulu Board of Water Supply**

Provided water treatment assistance in support of AECOM's lead office in Hawaii. The Honolulu Board of Water Supply (BWS) was assessing the requirements for 1,2,3-trichloropropane (TCP) removal at various contaminant levels. TCP is a chlorinated hydrocarbon and the byproduct of a pesticide that was banned in the late 1970s to early 1980s. Consistent with other chlorinated hydrocarbons, TCP is persistent in groundwater decades after its application to crops was discontinued. Aaron assisted the co-author for the wellhead sampling program and the bench-scale testing program and conducted activated carbon modeling using AdDesignS modeling software.

#### **Wastewater System Expansion Evaluation Valley Children's Hospital**

Project Engineer responsible for providing wastewater treatment support for the design of a 0.8-MGD packaged treatment plant. Design responsibilities include process modeling using BioWin, site development, and process equipment design including pump design, filter design, and UV disinfection design. The project also evaluated Title 22 water reuse requirements and preliminary design of system requirements.

#### **85 MGD WTP Expansion Joint Water Commission**

Process engineer responsible for developing and implementing a tracer study for the Joint Water Commissions expanded water treatment plant (55 MGD to 85 MGD). Complicated clearwell system which required updating existing CT calculations for compliance. Work included updated CT calculations, analyzing hydraulic performance of clearwell, and planning for and implementing a tracer study. A step dose method was performed using chlorine and the tracer study was approved by the Oregon Health Authority.

#### **Madera County Wellhead Treatment Facility Madera County**

The water treatment support for a new well in Bass Lake, California. Assisted project manager in conducting a pilot study program to determine effective treatment technologies for onsite water with high uranium concentrations. Other responsibilities included site layout design and coordination activities between the client and key stakeholders. The project also consisted of site survey coordination work and process design of the selected water treatment technology.





**ADAM HOCH,** PE, QSP, QISP, NASSCO PACP, LACP, MACP  
 QUALITY REVIEW & QUALITY MANAGEMENT

Adam leverages his extensive Public Works experience to guarantee the highest standards of quality control. With a decade of diverse project oversight, he brings strategic insight crucial for effective administration, permitting, and planning. Adam’s dedication to quality makes him a valuable advocate for scrutinizing and enhancing project deliverables. With him on the team, success is not just a goal but an expectation, as he ensures a path that consistently surpasses expectations.

<p><b>12</b> YEARS WITH HOCH</p>	<p><b>19</b> YEARS OF EXPERIENCE</p>
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RELEVANT EXPERIENCE

**Indirect Potable Reuse  
 City of Oceanside**

Pure Water Oceanside is the \$80 million program to plan, design, and construct an advanced water purification facility (AWPF) at the San Luis Rey Water Reclamation Facility. The facility provides 3.0 MGD of advanced treated water for injection into the Mission Groundwater Basin and 1.5 MGD of advanced treated water for blending with recycled water. The work included conveyance and backwash facilities, injection, and monitoring wells in the Mission Groundwater Basin. Adam oversaw this project and reviewed several critical elements, including evaluations and studies of the Mission Groundwater Basin, borings, geophysical surveying, regulatory discussions, production of engineering reports and reports of waste discharge, permitting through the City (including but not limited to Conditional Use Permitting (CUP), building permits, and grading permits), coordination with SDG&E, budgeting, and report writing. Adam also guided advanced planning efforts for the future water reuse program, including sizing the AWPF for 6.0 mgd, sizing the conveyance piping for 6.0 mgd, recommending well-site locations, and providing insight on funding sources and support.

**North City Pure Water  
 City of San Diego**

Adam performed a constructability review for the North City Pure Water Phase 1, Indirect Potable Reuse Project for the City of San Diego. Work included site evaluations and a review of the plans and specifications to assess the overall design of a pump station, dechlorination facility, pipeline, and subaqueous pipeline. Provided technical review services and project coordination services.

**Advanced Water Treatment  
 San Elijo Joint Powers Authority**

The \$4.2 million project included the microfiltration/reverse osmosis advanced purification facility at the San Elijo Water Reclamation Facility (SEWRF). Adam provided review of conceptual, preliminary, and final design, managed environmental permitting, provided discretionary permitting, managed construction, and provided field inspection services for a facility designed to reduce total dissolved solids (TDS) in the SEJPA’s reclaimed water.

EDUCATION

B.S., Civil Engineering,  
*Lehigh University*

REGISTRATIONS/  
 CERTIFICATIONS

Professional Engineer (Civil)  
 California, #C77635

Qualified SWPPP Developer (QSD),  
 #C77635

Qualified Industrial SWPPP  
 Practitioner (QISP), #C77635

American Society of Civil Engineers

American Public Works Association

California Water Environment  
 Association

WaterReuse

California Stormwater Quality  
 Association



# RICHARD ROTH

## ENGINEERING SUPPORT

Richard has over 35 years of experience in civil engineering design and land surveying. As a project design lead, he has managed the technical aspects and production of our Civil design teams. Richard is well-versed in all releases of Autodesk AutoCAD Civil 3D, BENTLEY Microstation, and ProjectWise software, enabling him to implement the latest computer technology for various engineering projects. He is responsible for preparing plans, specifications, and estimates for submittals, along with the technical design of water, wastewater, and general civil engineering projects. Richard spent his early career as a party chief for a survey crew, which provided him with a knowledge base for all survey-related coordination necessary for the management of sub-consultants.

<b>5</b> YEARS WITH HOCH	<b>35</b> YEARS OF EXPERIENCE
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### RELEVANT EXPERIENCE

#### **Regional Plant Ultraviolet Disinfection System Upgrade Feasibility Study Victor Valley Wastewater Reclamation Authority**

The project included the development of a strategic approach for replacing the existing 22 million gallons per day (mgd) open channel UV equipment system at the VVWRA facility. The primary objective was to introduce a more energy-efficient system with minimal maintenance requirements, providing enhanced redundancy across the facility. This comprehensive initiative signifies a forward-thinking upgrade aimed at optimizing operations, ensuring sustainability, and reducing energy consumption within the VVWRA facility.

#### **Flume Replacement Study Vista Irrigation District**

This project is focused on examining the current infrastructure in the City of Escondido, City of San Marcos, and County of San Diego. This examination is crucial to support the proposed alignment alternatives. A site reconnaissance of existing and WSPS-developed alignments was conducted to identify additional constraints. The project also involved preparing conceptual plan and profile drawings for alignment alternatives. This strategic effort aims to enhance planning studies by documenting existing infrastructure and facilitating the development of alignment alternatives.

#### **County of San Benito Water Treatment System Willis Construction**

This project is designed to treat the groundwater from Well #2, and it aims to remove contaminants like arsenic, iron, and manganese. The project focuses on integrating a single treatment facility with filter packages and chemical feed systems. The development of site and equipment plans is based on insights gathered during the initial pilot study and aligns with owner preferences. This project represents a strategic approach to water treatment, with the goal of efficiently and effectively removing contaminants to improve the quality of the groundwater supply.

### EDUCATION

AA, CADD,  
*Platt College*

### REGISTRATIONS/ CERTIFICATIONS

- California Land Surveyors Association (CLSA)
- 10-Hour Construction Outreach Training
- Amtrak – Roadway Worker Protection On-Track Safety
- First Aid
- Hazard Communication (US)/ WHMIS (Canada)



# KATHRYN CALILAN, EIT

## ENGINEERING SUPPORT

Kathryn brings extensive expertise in Construction Inspection, Field Engineering, and Project Management within the Water and Wastewater sectors. Kathryn's exceptional organizational abilities solidify her position as an invaluable team member. Her proactive approach and meticulous attention to detail make her a key asset, ensuring project success. Her most recent work at the North City Pure Water Reclamation Plant included quality control and managing design modifications. Her commitment to excellence, and hands-on experience, equips her to navigate the intricacies of reuse projects with proficiency and efficiency.

<p><b>1</b> YEARS WITH HOCH</p>	<p><b>9</b> YEARS OF EXPERIENCE</p>
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### RELEVANT EXPERIENCE

#### **Regional Plant Ultraviolet Disinfection System Upgrade Feasibility Study Victor Valley Wastewater Reclamation Authority**

The Project evaluated the feasibility of converting the Authority's existing open channel UV system to a closed vessel system to provide redundancy to the Authority's Subregional Facilities and reduce O&M requirements and energy costs. Tasks included evaluating the existing system, developing the hydraulic profile, coordinating with subs and vendors, preliminary design and planning of proposed closed vessel system and chemical feed skid. Kat also assisted with the development of cost estimates, energy usage evaluations, and equipment sizing. Lastly, Kat performed a funding analysis to identify potential project funding opportunities and worked with our lead water resources group to summarize the findings. The Project will allow the Authority to save energy and reduce O&M costs by standardizing their equipment and maintenance activities.

#### **Comarca Ngäbere -Bugle, Panama U.S. Peace Corps**

Kathryn served as a Water, Sanitation, and Hygiene Specialist during her time with the Corps, she worked on extensive sanitation projects across three communities. Her duties included the direct design, engineering, and construction of clean drinking water systems and concrete latrine facilities. She worked with local government officials, NGOs, and community organizations to promote water and sanitation infrastructure. Kathryn facilitated community-wide training presentations highlighting aqueducts, latrines, and proper hygiene care which successfully increased community sanitation efforts by 50%. She successfully communicated with the community through speaking Spanish and the local indigenous language of Ngäbere.

#### **Funding Opportunity Summary and Ongoing Monitoring Vista Irrigation District**

Kathryn is conducting preliminary grant opportunity research to match Vista Irrigation District's top capital projects, with viable funding opportunities. The Final Results Matrix Table/Report includes key information useful for planning upcoming opportunities, including funding program name and agency, key dates/deadlines, funding type (grant, loan, or incentive), project eligibility requirements, funding available, cost share required, and estimated level of effort.

### EDUCATION

M.S., Civil Engineering,  
*Kansas State University*

B.S., Biological Systems Engineering,  
*Kansas State University*

### REGISTRATIONS/ CERTIFICATIONS

Engineer-In-Training (EIT) (NCEES  
ID 15-707-17)

ACI Concrete Field-Testing  
Technician – Grade I

Safety Training in Confined Spaces

Safety Training in Fall Protection –  
Working from Heights



# LENA BAGNOL

## ENGINEERING SUPPORT

Lena, a passionate Environmental Engineer, is dedicated to implementing sustainable solutions in the water and wastewater industry. Her background includes impactful work with NOAA, contributing to water quality assessments in Southern California. As a staff engineer and project management support, Lena has excelled in coordinating reviews, estimating construction costs, and refining project documents across diverse initiatives. Proficient in tools like Bluebeam, ArcGIS, Microsoft Office, and AutoCAD, she possesses strong communication skills, facilitating adequate project support and report generation.

<p><b>1</b> YEARS WITH HOCH</p>	<p><b>2</b> YEARS OF EXPERIENCE</p>
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### EDUCATION

B.S., Environmental Engineering,  
*San Diego State University*

### REGISTRATIONS / CERTIFICATIONS

American Society of Civil Engineers  
(ASCE San Diego Chapter)

Women In Water San Diego

### RELEVANT EXPERIENCE

#### **Aeration Basin Nitrifying/Denitrifying Modification San Elijo Joint Powers Authority**

SEJPA was looking to improve effluent quality at the San Elijo Water Reclamation Facility by reducing the concentration levels of Nitrate and Ammonia. Lena's team proposed achieving this by altering the aeration basins to create a Modified Ludzack-Ettinger process to effectively improve effluent quality. Project Management services included coordinating site visits, conceptual design and cost estimates, completion of plans and submittal review and quality control. Lena also conducted calculations to ensure effluent quality improved and modifications were possible. She also coordinated with project consultants and industry leaders, facilitated project-related meetings, and reviewed project deliverables and provided recommendations.

#### **San Luis Rey Water Reclamation Facility (SLRWRF) Major Updates - Phase II City of Oceanside**

Engineering Support for the City of Oceanside while the City moves forward with Major Upgrades to the San Luis Rey Reclamation Facility Project. The project consists of two phases. Lena has helped perform QA/QC of plans and specifications, coordination reviews between multiple agencies, and identified elements to help the City mitigate future construction errors or change orders.

#### **Hutton Turner Pump Station Rainbow Municipal Water District**

This project consisted of three pre-packaged EFI pump stations to convey water from the District's Morrow system to the South system. Historically, the District utilized temporary water pump stations comprised of rental equipment to provide water service to customers within portions of its service area. The District had determined that it was more cost effective to construct permanent pump stations to replace the temporary pump stations and has been working with EFI-Solutions to design packaged pump stations to meet the demands of future developments within the District. Lena provided engineering assistance, which included review of plans and project deliverables, QA/QC, and participating in meetings with district staff and project consultants.



# KYRSTEN BURR

FUNDING ADMINISTRATION

**OPTIONAL SERVICES**

Kyrsten has over 20 years of experience in public agencies as a senior management analyst, planner, and senior water resources specialist. She has expertise in water, recycled water, wastewater, water conservation and stormwater, budget and finance, public outreach and communications, and community development. Kyrsten's comprehensive understanding of grant administration includes federal, state, and regional grant funding opportunities, proposal development, procurement, implementation, invoicing, reporting, and compliance. She is adept at creating strong grant applications and ensuring the successful implementation of practical projects for funding while also establishing good standing with the granting agency.

<p><b>5</b> YEARS WITH HOCH</p>	<p><b>21</b> YEARS OF EXPERIENCE</p>
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RELEVANT EXPERIENCE

**MWD Local Resources Program, City of Oceanside (\$43M Approved)  
City of Oceanside**

Developed two LRP applications for the City of Oceanside's PureWater and Recycled Water initiatives, which resulted in the approval of \$415 per acre-foot rebates from MWD for water produced by new water sources.

**Grant Writing & Administrative Services  
Otay Water District (2011 - Present)**

Provide grant writing and grant administrative services. Functions include screening and identification of funding opportunities; preparing grant applications; executing grant agreements; and coordinating with granting agencies. Specific grant writing efforts have included preparing grant application packets for submittal to FEMA, SWRCB, SANDAG, and USBR.

**Grant Writing & Administrative Services  
City of Oceanside**

Since 2019, Kyrsten has provided grant administration support services for all Federal funding programs with the Water Utilities Department, which has included tracking grant budgets, invoices, and expenditures and processing pay requests. She has administered multiple Bureau of Reclamation WaterSMART grant agreements and liaised with Bureau staff to problem solve and to modify grant agreements as needed. One of her primary grant administration duties is to also develop and submit required status reports to the granting agency per the funding agreement requirements.

**Grant Writing & Administrative Services  
San Diego County Water Authority**

Provide grant writing and grant administrative services. Functions include screening and identification of funding opportunities; preparing grant applications; executing grant agreements; preparing invoices to granting agencies and tracking disbursements, writing reports and project monitoring plans; preparing and processing grant amendments; and coordinating with granting agencies. Specific efforts include writing DWR and USBR grants and administering five Integrated Regional Watershed Management grants.

EDUCATION

B.A., Urban Economic Geography/Urban Planning, *University of California, Berkeley*  
M.S., Public Administration, *San Diego State University*

RECOGNITION / CERTIFICATIONS

Women in Water  
Water for People





# JONI GERMAN

FUNDING ADMINISTRATION

**OPTIONAL SERVICES**

Before joining Hoch, Joni was a water resources specialist at the San Diego County Water Authority (SDCWA) and has held previous positions at regional water agencies as a management analyst and water resources specialist. She is familiar with all aspects of grant administration, including evaluating federal, state, and regional grant funding opportunities, developing proposals, procurement, implementation, invoicing, reporting, and compliance. Joni has successfully collaborated with other public agencies and local non-profit organizations on water conservation, stormwater, agriculture, and leak detection projects, securing funding from each partner. Her experience enables her to provide valuable insights and diverse input.

<p><b>1</b> WITH HOCH</p>	<p><b>21</b> TOTAL EXPERIENCE</p>
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RELEVANT EXPERIENCE

**Department of Water Resources Prop 1, Round 2 Implementation Grant, Integrated Multi Benefit Solutions for Climate Resiliency in the San Diego Region (\$2.3M Awarded)**

Developed and submitted the SDCWA (lead agency), City of San Diego and Mission Resource Conservation District grant proposal. Successfully implemented three main project components: 1) Multi-Benefit Sustainable Landscapes including direct-install irrigation efficiency and turf replacement; 2) Community-Driven Water Improvements in the disadvantaged and underserved communities of San Diego; and 3) City of San Diego Residential Water Conservation Rebate Program Expansion. Designed and managed the first two projects including scope of work development, vendor acquisition and management, and grant monitoring including quarterly reports to DWR.

**County of San Diego Agreement for Supplemental Water Use Efficiency Funding (\$4.1M Contract Value)**

Negotiated, executed, and managed an agreement with the County to pass-through \$4.1 million in regional incentives through the Metropolitan Water District of Southern California's (MWD) SoCal Water\$mart Program. This funding pass-through was only available to the Water Authority's 24 member agencies. The agreement formalized each party's responsibilities for administering supplemental water efficiency in the County jurisdiction and for funding these incentives. The agreement assisted the Water Authority and County in achieving complementary goals for increased water use efficiency and reduced runoff through multi-benefit programs county-wide.

**WaterSMART Landscape Makeover Program**

Joni built on previous pilots of this program and successfully launched the full program in 2014. The WaterSMART Landscape Makeover Program (WSLMP) educated homeowners about water conservation and sustainability using climate-appropriate landscape design. As of 2022, more than 1,300 regional homeowners used the skills and knowledge gained through this program to remove 1.5 million square feet of turf since 2012. Over 100 design workshops were held in person and virtually, reaching more than 5,000 homeowners. Successful leveraging of state, County, and MWD grant funds have helped to offset operating costs and has resulted in an increase in the number and methods of program offerings countywide. The program as managed by Joni received local, state and national awards.

EDUCATION

B.A., Political Science/Business, *University of California, Los Angeles*

M.S., Public Administration, *San Diego State University*

RECOGNITION / CERTIFICATIONS

Women in Water

California Water Efficiency Partnership

**EDUCATION**

Bachelor of Science,  
Hydrological Sciences,  
Minor Geographic  
Information Systems,  
University of California,  
Santa Barbara, 2001

**REGISTRATIONS/  
CERTIFICATIONS**

CRAM, Qualified  
California Rapid  
Assessment Method,  
Practitioner, Wetlands

CRAM, Qualified  
California Rapid  
Assessment Method  
Practitioner, Estuarine

**PROFESSIONAL  
AFFILIATIONS**

Association of State  
Wetland Managers

Association of  
Environmental  
Professionals

**AMIR MORALES****Biology Group Manager/Principal Regulatory Specialist**

Mr. Morales is a  
Specialist/Biologist  
to hydrology,  
throughout southern  
jurisdictional  
permitting for the  
Section 401  
(RWQCB), and  
California



permitting (including emergency permitting) and compliance; and compensatory mitigation development. He has completed more than 300 jurisdictional delineations (JDs) during his tenure as a consultant and has extensive experience with a range of services including due diligence, regulatory strategy/planning, habitat conservation plan compliance, storm water quality assistance, streambed mitigation development/implementation, biological planning and management, conservation easement negotiations/support, and CEQA peer review. Mr. Morales has also trained others in field methods; delineations; GIS; compliance with USACE and CDFW regulatory guidelines; and coordination of the regulatory permitting process.

**Moulton Niguel Water District Regional Lift Station Force Main Replacement (2017 - Present).**

Principal Regulatory Specialist leading all biological and jurisdictional constraints analysis and working with the project engineer to design the project to minimize impacts to streambeds and sensitive species. Managed preparation of biological technical study and biological services and strategic regulatory permitting for the lift station project, including early coordination with the resource agencies. Work performed as a subcontractor for Moulton Niguel Water District (MNWD). HELIX is currently a subcontractor providing biological and cultural construction monitoring services for the force main replacement construction phase of the project.

**Western Municipal Water District (WMWD) March Line Emergency Project (2023 - Present).** Principal Regulatory Specialist overseeing emergency permitting to repair a significant potable water line in the City of Riverside that was damaged by high flows within Mockingbird Canyon Creek during Tropical Storm Hillary in August 2023. Worked with WMWD and project engineers to develop alternative designs to determine the preferred design that met the project purpose and need while minimizing impacts to sensitive biological resources to the greatest feasible extent. Led the emergency permitting application preparation and processing and obtained emergency permit authorizations from the federal and State resource agencies for impacts to Mockingbird Creek within days of applying. Mr. Morales also worked with HELIX's habitat restoration group to revegetate disturbed areas and avoid additional compensatory mitigation.

**Moulton Niguel Water District Potable and Recycled Pipeline Replacements at I-5 & Oso Creek (2017 - 2019).** Principal Regulatory Specialist/Biologist leading all biological and jurisdictional assessments and working closely with MNWD staff and the project engineer to avoid all jurisdictional resources and sensitive habitats. Worked with resource agencies to develop solution to habitat for sensitive species (e.g., least Bell's vireo) locations near the proposed work areas and avoid having to obtain an Incidental



**EDUCATION**

Bachelor of Science,  
Ecology and Natural  
Resources, Rutgers  
University, 2013

**REGISTRATIONS/  
CERTIFICATIONS**

American Red Cross, Las  
Vegas, NV, Certified,  
Wildlife First AID

California Department  
of Fish and Wildlife  
(CDFW), Plant Voucher  
Collecting Permit  
No. 2081(a)-18-075-V

International Society of  
Arboriculture, Certified  
Arborist No. WE-12249A

International Society of  
Arboriculture, TRAQ,  
Tree Risk Assessment  
Qualification  
Certification

County of Santa  
Barbara, Approved  
Arborist Consultant

**PROFESSIONAL  
AFFILIATIONS**

International Society of  
Arboriculture

**DANIEL TORRES****Senior Scientist**

Mr. Torres is a  
southern California,  
Bernardino, and Los  
responsible for  
prepares arborist  
potential mitigation  
trees during  
efforts to include  
identification, and  
conducted nesting bird surveys and focused surveys for burrowing owl. Mr. Torres writes CEQA-level technical reports, prepares permitting packages for Section 401/404/1602 permits, and performs construction monitoring and environmental compliance monitoring for a variety of clients in the public and private sectors including projects for utilities, water, transportation, and private development.



Biologist with 10 years of experience working throughout with an emphasis in Orange, Riverside, San Diego, San Angeles counties. Mr. Torres is an ISA-certified Arborist performing tree assessments and tree surveys. He reports to analyze project impacts to trees, determine requirements, and provide recommendations to protect construction. He is particularly skilled with botanical vegetation mapping and habitat assessment, plant special-status plant surveys. Additionally, he has conducted nesting bird surveys and focused surveys for burrowing owl. Mr. Torres writes CEQA-level technical reports, prepares permitting packages for Section 401/404/1602 permits, and performs construction monitoring and environmental compliance monitoring for a variety of clients in the public and private sectors including projects for utilities, water, transportation, and private development.

**Elsinore Valley Municipal Water District Lee Lake Dam Upgrades (2019).** Biologist for a 47-acre dam improvements project located in unincorporated Riverside County. Performed focused burrowing owl surveys according to CDFW protocols.

**Rosamond Community Services District Wetland Conceptual Design Services Environmental Surveys and Documentation (2018).** Biologist for an approximately 80 -acre wastewater treatment project in the Community of Rosamond, Kern County. Performed rare plant surveys in saltbush scrub habitat. Performed a burrowing owl habitat assessment and focused burrowing owl surveys as per CDFW protocol. Prepared the burrowing owl focused survey letter report. Work performed as a subconsultant to the design engineer for Howard Industrial Partners.

**Eastern Municipal Water District Purified Water Replenishment EIR (2020 - Present).** Biologist for a project that would replenish the San Jacinto Upper Pressure Groundwater Management Zone aquifer with recycled water and advanced treated water. New facilities are proposed to include advanced water treatment facilities and brine ponds near Eastern Municipal Water District's (EMWD) existing San Jacinto Valley Regional Water Reclamation Facility, a blending facility at the existing Alessandro Ponds, and water conveyance pipelines. Performed a general biological survey, including vegetation mapping and identification of potential jurisdictional features within the pipeline alignment. Prepared the biological resources technical report including an analysis of existing biological resources and appropriate mitigation measures.

**Eastern Municipal Water District Dale 2199C Pressure Zone Looping Pipeline Project (2019).** Biologist for a 25-acre pipeline project site located in the City of Moreno Valley, Riverside County. Performed focused burrowing owl surveys according to MSHCP protocol. Performed vegetation mapping and rare plant surveys. Prepared the burrowing owl report to document to methods and the results of the survey.

**Western Municipal Water District Chino Desalter Phase 3 Expansion Project - CDA Water Pipeline (2018 - 2019).** Lead Biological Monitor for a water pipeline project located in the City of Norco, San Bernardino County, adjacent to the Santa Ana river. Monitored construction activities to ensure compliance with the project's CDFW 1602 permit that included monitoring work activities occurring in

**EDUCATION**

Bachelor of Science,  
Natural Resources,  
emphasis in Wildlife,  
Central Michigan  
University, 2004

**REGISTRATIONS/  
CERTIFICATIONS**

CRAM, Qualified  
California Rapid  
Assessment Method,  
Practitioner

CDFW, Plant Voucher  
Collecting Permit  
No. 2081(a)-19-001-V

**EZEKIEL COOLEY****Senior Biology Project Manager**

Mr. Mr. Cooley is a  
on experience in the  
18 years of  
focus on projects in  
Counties. He  
packages, and works  
the process. He has  
habitat evaluations,  
delineations, habitat



and map creation. Mr. Cooley has specialized experience with floral and faunal surveys adhering to the standards of California Fish and Wildlife (CDFW), U.S. Fish and Wildlife Services (USFWS), and the U.S. Army Corps of Engineers (USACE). He also performs Geographic Information Systems (GIS) impact analyses, cartographic production, Global Positioning System (GPS) data collection, and data input and manipulation to map project-related sensitive plants and animals, and vegetation communities.

**Western Municipal Water District March Line Emergency Project (2023 - Present).** Senior Biology Project Manager supporting emergency permitting to repair a significant potable water line in the City of Riverside that was damaged by high flows within Mockingbird Canyon Creek during Tropical Storm Hillary in August 2023. Worked with Western Municipal Water District and project engineers to develop alternative designs to determine the preferred design that met the project purpose and need while minimizing impacts to sensitive biological resources to the greatest feasible extent. Assisted with the emergency permitting application preparation and processing to obtain emergency permit authorizations from the federal and State resource agencies for impacts to Mockingbird Creek within days of applying. Mr. Cooley also worked with HELIX's habitat restoration group to revegetate disturbed areas and avoid additional compensatory mitigation.

**Western Municipal Water District Mill Gravity Line Project (2019).** Lead Biologist/ GIS Technician providing biological services for improvements to an exposed water line within a highly incised creek, including a jurisdictional delineation, habitat assessments, and surveys for sensitive plant and wildlife species. Worked closely with biology project manager to lead implementation of the biological resources and GIS for the project.

**The Metropolitan Water District of Southern California Regional Recycled Water Program - Los Angeles River Alignment Biological Constraints (2020).** Regulatory Specialist, Biologist, and GIS Technician providing support for the desktop review and field reconnaissance regarding potential biological and jurisdictional impacts of the proposed Regional Recycled Water Program pipeline alignments.

**Moulton Niguel Water District Pipeline Alignment at I-5 and Oso Creek (2017 - 2019).** Biologist, Regulatory Specialist, and GIS Technician for the approximately seven-acre Potable and Recycled Pipeline Replacement Project. Managed biological and jurisdictional assessments and worked closely with district staff and the project engineer to avoid all jurisdictional resources and sensitive habitats. Performed a jurisdictional delineation and a general biological assessment of the study area. Work performed as a subcontractor to the design engineer for the Moulton Niguel Water District (MNWD).

**EDUCATION**

Master of Arts,  
Anthropology,  
San Diego State  
University, 1990

Bachelor of Arts,  
Anthropology, University  
of California, Santa  
Barbara, 1981

**REGISTRATIONS/  
CERTIFICATIONS**

Registered Professional  
Archaeologist No. 10294

Caltrans, Professionally  
Qualified Staff-  
Equivalent Principal  
Investigator for  
Prehistoric Archaeology

Bureau of Land  
Management  
Statewide Cultural  
Resource Use Permit  
(California), FLPMA  
Permit No. CA-18-35

County of San Diego,  
Approved CEQA  
Consultant for  
Archaeological  
Resources

**PROFESSIONAL  
AFFILIATIONS**

Society for American  
Archaeology

Society for California  
Archaeology

San Diego  
Archaeological Center

San Diego History  
Center

San Diego Museum of  
Us

San Diego County  
Archaeological Society

**MARY ROBBINS-WADE, RPA****Principal Archaeologist**

Ms. Robbins-Wade is  
Archaeologist at  
oversees  
programs, including  
survey, research,  
preservation plans;  
with a broad range  
public infrastructure.



a Cultural Resources Group Manager and Principal HELIX. With 44 years of experience, she manages and archaeological, historic, and interpretive studies and contract management; design and implementation of data recovery, and construction monitoring programs; and report preparation. Ms. Robbins-Wade has experience of project types, including private developments and She manages the preparation of cultural resources studies both as stand-alone reports and also in support of CEQA and NEPA compliance efforts. Ms. Robbins-Wade has a strong working knowledge of local, state, and federal laws addressing the protection of archaeological and historical resources. Her Native American consultation experience includes coordinating Native American tribal consultations conducted pursuant to CEQA as revised by Assembly Bill 52 (AB; 2014 Session), as well as providing support for federal agency government-to-government consultations with federally recognized tribes pursuant to Section 106 of the National Historic Preservation Act (NHPA). Ms. Robbins-Wade is a Registered Professional Archaeologist (RPA) and meets the U.S. Secretary of the Interior's Professional Qualifications for prehistoric and historic archaeology.

**Moulton Niguel Water District Pipeline Alignment at I-5 and Oso Creek (2017 - 2018).** Cultural Resources Task Lead for the replacement of existing potable water (PW) and recycled water (RW) pipelines by Moulton Niguel Water District (MNWD). The study area is situated within the Mission Viejo Country Club on the east side of the I-5 and MNWD's Wastewater Plant 3A in the western portions. Oversaw background research and constraints analysis, Native American coordination, cultural resources survey, coordination with MNWD and prime consultant, and report preparation. Work performed as a subcontractor to the design engineer for MNWD.

**City of Riverside Jackson Street Recycled Water Pipeline Project (RPU SWRCB Financial Application Water Recycling Funding Program) (2017).** Cultural Resources Task Lead/Principal Investigator for the proposed installation of pipelines to expand the City of Riverside's Recycled Water System. Managed completion of a records search and a Sacred Lands File search, tribal outreach, a review of historic maps and aerial photographs, an intensive field survey by a HELIX archaeologist and co-authored the draft and final reports. The study met the CEQA-Plus requirements of the State Water Resources Control Board for receiving State Revolving Funds. Work performed as a subcontractor to the design engineer for the City of Riverside.

**Rowland Water District Future 3 Recycled Water Pipeline (2017).** Cultural Resources Task Lead for the cultural resources study in support of the EIR Addendum for the proposed construction of



## Shane Trussell, Ph.D., P.E., BCEE

### EDUCATION

- Ph.D. Civil and Environmental Engineering, *University of California, Berkeley*
- M.S., Civil and Environmental Engineering, *University of California, Los Angeles*
- B.S., Chemical Engineering, *University of California, Riverside*

### REGISTRATION

- Civil Engineer, State of California-No. 66887

### CERTIFICATIONS

- Board Certified Environmental Engineer, American Academy of Environmental Engineers – No. 11-10042  
Specialty: Water Supply & Wastewater

### SUMMARY

R. Shane Trussell is the President and Chief Executive Officer of Trussell Technologies, Inc. Dr. Trussell is a registered Civil Engineer in the State of California with more than 20 years of hands-on experience with the processes used to treat water, wastewater, and potable reuse. Dr. Trussell has extensive involvement in numerous potable reuse projects throughout the state, ranging from feasibility studies and pilot testing to design and regulatory permitting. Dr. Trussell led two major research efforts funded by the WaterReuse Research Foundation (now Water Research Foundation): WRRF 11-02 (Equivalency of Advanced Treatment Trains for Potable Reuse) and WRRF 14-12 (Demonstrating Redundancy and Monitoring to Achieve Reliable Potable Reuse), with a combined project budget total of \$3.4 million, to advance the implementation of

potable reuse in California. Recently, the State Water Board selected Dr. Trussell to co-lead a state-funded project to evaluate strategies for dealing with peaks of chemical contaminants. The State Board is now using the findings from this research to develop statewide regulations for DPR. Dr. Trussell is an industry leader in potable reuse and developing water supplies, leading innovative, effective engineering and research projects throughout California.

### PROJECT EXPERIENCE

#### Metropolitan Water District of Southern CA/Sanitation Districts of LA County

Title: Regional Recycled Water Advanced Purification Center Demonstration Project  
Date: 2016-present

The Metropolitan Water District of Southern California (MWD) and the Sanitation Districts of Los Angeles County (LACSD) are developing plans for a 150 million gallon per day (mgd) advanced water purification facility (AWPF) at the Joint Water Pollution Control Plant (JWPCP) in Carson, CA. Trussell is supporting the development of this project through full-scale planning support and work at the 0.5 mgd Advanced Purification Center (APC) demonstration plant which includes tertiary membrane bioreactors (MBRs), reverse osmosis (RO), and ultraviolet with advanced oxidation (UV/AOP). At the APC, Trussell assisted in design development, led the operations of the plant, and developed and executed a 15-month test plan which included robust chemical and pathogen sampling. At the time, an MBR pathogen crediting framework had not yet been established in California. Trussell worked alongside regulators to develop a thorough test plan whose results served as precedent for receiving pathogen credits from MBRs. In addition to the innovative work at the APC, Trussell has also led the development of the DPR concept for the Regional Recycled Water Program through preliminary assessments of the feasibility of expanding their existing groundwater recharge plans to include DPR. Trussell led the development of two separate memos to describe what would be needed to implement DPR.

Role: *Technical Advisor*

#### California State Water Resources Control Board/Water Research Foundation/Kennedy Jenks



## Brett Faulkner, P.E.

### EDUCATION

- M.S., Environmental Engineering, San Diego State University
- B.S., Civil Engineering, University of Colorado

### REGISTRATION

- Civil Engineer, State of California – No. 87912

### CERTIFICATION

- Grade III Wastewater Treatment Plant Operator—Certificate Number 41525

### SUMMARY

Brett Faulkner is a registered professional engineer in the state of California with over thirteen years of experience from numerous wastewater, recycled water, and potable reuse projects. Mr. Faulkner's expertise is in water and wastewater treatment processes with an emphasis on process design and optimization. Mr. Faulkner also operated the City of San Diego's Pure Water Demonstration Facility (PWDF) as a certified Grade 3 wastewater operator in the State of California for over 2 years. The PWDF has a production capacity of 1 MGD and includes ozone, biologically activated carbon filtration, membrane filtration, reverse osmosis, and UV advanced oxidation. Mr. Faulkner is skilled in GPS-X, a dynamic wastewater simulation modeling software, and has utilized biological modeling to assist in the evaluation, optimization, and/or sizing of biological treatment processes at more than 10 facilities ranging from 3 to 300 MGD. Mr. Faulkner currently provides routine operational support and/or as-needed engineering services to 5 wastewater agencies.

### PROJECT EXPERIENCE

#### Rancho California Water District

**Title:** SRWRF Aeration Evaluation and Blower Replacement

**Date:** 2015-2018, 2023

Rancho California Water District (RCWD) owns and operates the Santa Rosa Water Reclamation Facility (SRWRF) in Murrieta, California. Trussell Technologies Inc. (Trussell) used the wastewater modeling software GPS-X to evaluate the efficiency of the jet aeration equipment and estimate potential cost savings if the aeration equipment were to be replaced. The evaluation showed potential for significant savings, improved process performance, and a substantial increase in treatment capacity from upgrading the aeration equipment to fine bubble diffusers, new blowers, and implementing DO control. Trussell procured equipment recommendations and cost estimates from three competing manufacturers for blower and fine bubble aeration equipment upgrades. Trussell was retained by RCWD in an owner's rep role to oversee the design. Trussell performed revised modeling for peak conditions to determine required airflow and the appropriate blower sizing criteria that resulted in efficient operation at current conditions and handling of peak design loads in the future. Construction was completed in 2022 and a recent evaluation performed by Trussell showed over 30% energy savings from the upgrades and improved effluent water quality.

**Role:** Project Engineer

#### San Elijo Joint Powers Authorities

**Title:** Process Optimization Plan and As Needed Assistance

**Date:** 2008-Present

San Elijo Joint Powers Authority (SEJPA) owns and operates the San Elijo Water Reclamation Facility (SEWRF) in Cardiff By the Sea, California and produces up to 3 MGD of recycled water. Trussell Technologies worked with SEJPA to develop an operations plan for the whole facility to improve treatment, eliminate guesswork, and minimize the operating cost of the SEWRF. Our staff also provided the SEJPA with the conceptual design for their 0.5 MGD MF/RO demineralization facility that has been operating since 2013. Trussell Technologies has also provided ongoing technical support and recommendations for the MF and RO operation and maintenance procedures. Our recommendations to MF and RO operations ensured that membrane processes operate stably and are able to rebound in performance quickly during any challenging water quality events. The biological part of the operations plan resulted in more consistent and effective biological treatment





## Fernanda Baccaro

### EDUCATION

- B.S.E, Environmental Engineering, Sao Paulo State University (UNESP), Rio Claro, SP, Brazil 2016
- M.S., Civil & Environmental Engineering, University of Nevada Las Vegas (UNLV) 2018

### SUMMARY

Fernanda Baccaro has a B.S. in Environmental Engineering from the Sao Paulo State University, Brazil and a M.S. in Civil and Environmental Engineering from the University of Nevada, Las Vegas. Her master's thesis was focused on alternative potable reuse treatment processes such as ozone and biofiltration. She operated a pilot-scale ozone biofiltration system to assess its feasibility towards bulk organic matter removal and disinfection by-products (NDMA specifically) mitigation, including upon final chloramination. Her work also included the use of microbiology and molecular biology techniques to understand NDMA abatement during biofiltration. At Trussell, Ms. Baccaro worked in many field- and laboratory-based projects, where she performed several laboratory analyses for water quality, simulated bench- and small-scale treatment processes, and operated an advanced treatment plant for potable reuse. Currently, her work is mostly focused on biological wastewater treatment processes and water reuse.

### PROJECT EXPERIENCE

#### Ventura Water Reclamation Facility

##### MBR and UV Disinfection Project

Year: 2022 – current

The Ventura Water Reclamation Facility (VWRF) is looking to upgrade their facility and include membrane bioreactors (MBRs) as the secondary treatment process and UV disinfection to replace its chlorine process. Mrs. Baccaro has been involved in the design of the secondary treatment process,

using modeling softwares to size the biological system as well as the air system and predict chemical consumption. The results of the modeling will dictate the design of the future new secondary treatment at the facility.

**Role:** Project Engineer

#### Hyperion Water Reclamation Plant

##### MBR and UV Disinfection Project

Year: 2022 – current

The Hyperion Water Reclamation Plant (HWRP) is planning to add potable reuse to its portfolio and reuse all of its future wastewater effluent by 2035. Trussell has been contracted by the Los Angeles Sanitation and Environment (LASAN) to perform a series of projects for HWRP.

A pilot-scale membrane bioreactor (MBR) plant will be installed at HWRP to test different membrane products and understand the pathogen removal dynamics by the MBRs. Mrs. Baccaro was involved in the planning of the microbiological tests and procedures for this phase of HWRP's reuse plan.

She has also been involved in the preliminary design of the proposed reuse facilities for both direct potable reuse (DPR) and indirect potable reuse (IPR), particularly in the post treatment processes.

Trussell has also been part of the team contracted by LASAN to investigate possible sources of odor at HWRP that led to complaints by the dwellers nearby the facility. As part of this investigation, Trussell is performing analysis of several treatment processes at HWRP and evaluating their performances. Trussell will propose strategies to improve HWRP's treatment processes that could lead to less odor formation at the plant and consequently, less odor complaints.

**Role:** Project Engineer

#### Metropolitan Water District of Southern California

##### Regional Recycled Water Advanced Purification Center

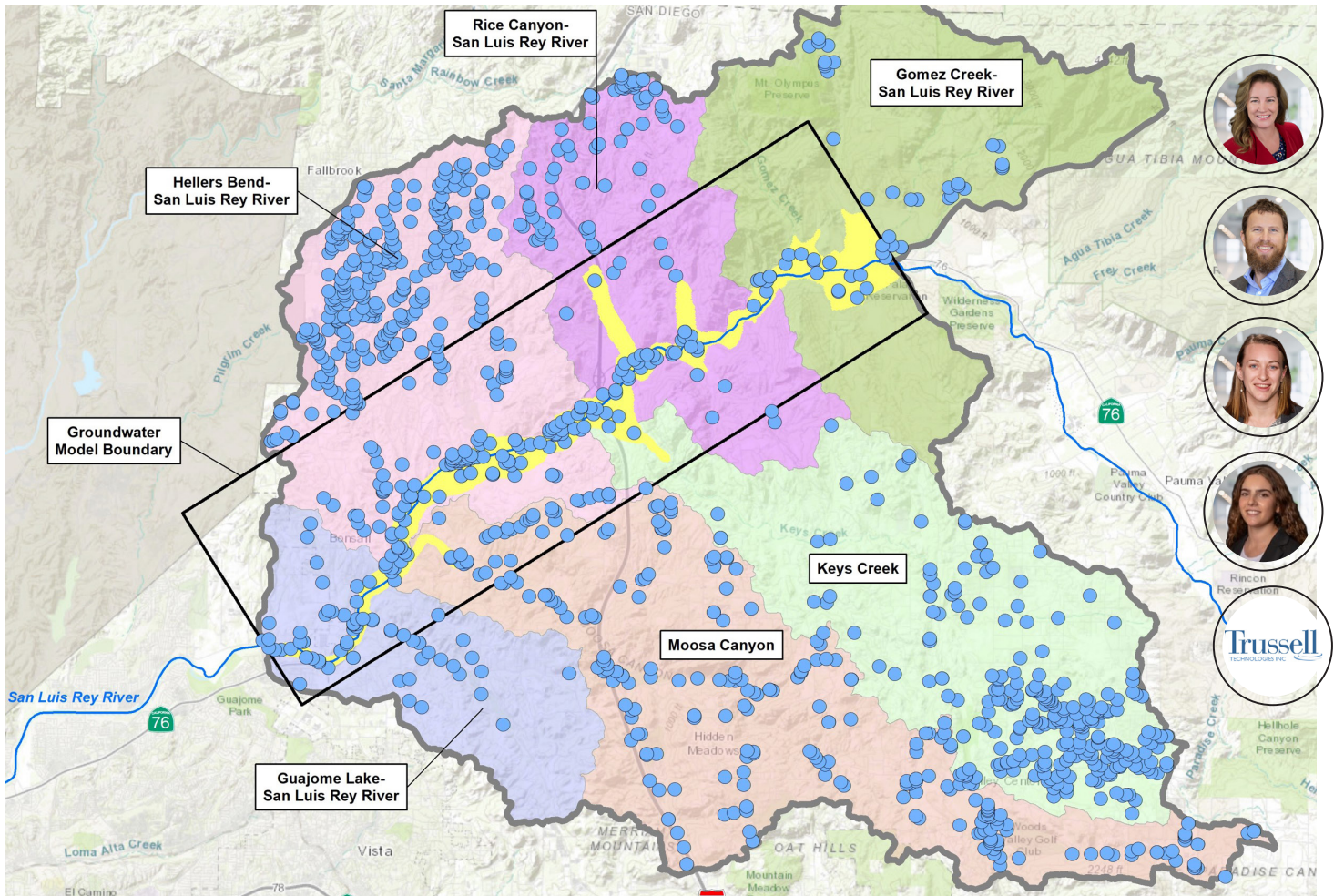
Year: 2019 – 2021

Metropolitan Water District of Southern California (MWD), in collaboration with Los Angeles County Sanitation District (LACSD), is looking for drought-proof water supplies in the Great Los Angeles Area. Trussell has been chosen to lead operation and testing efforts for an initial demonstration plant with a 0.5 million gallon per day (mgd) capacity. Once built, the future full-scale Pure Water Southern California (PWSC) will be the largest recycled water plant in the world, with a 160mgd capacity. The processes employed at the PWSC demonstration

d. Provide a description of the three most relevant contracts held within the last five years.

# Title XVI Return Flow Feasibility Study

## RAINBOW MUNICIPAL WATER DISTRICT



Hoch is the primary contractor responsible for the Return Flow Feasibility Study. Our team is leading the project effort to assess and update the imported water return flows by the Rainbow Municipal Water District into the San Luis Rey Valley Groundwater Basin. Over the last ten years, the San Luis Rey Valley Groundwater Basin has undergone multiple studies for the development of a local water supply project. Hoch is leading the engineering, optional analysis, research, and technical writing, and working in collaboration with sub-consultants on groundwater modeling, water quality, and environmental/permitting tasks. As a part of this effort, Hoch evaluated several project options and recommended the most viable one, which is detailed in a completed feasibility study following the Bureau of Reclamation Standards WTR 11-01. Additionally, the project team carried out hydrogeologic investigations and surveying, developed plans and specifications, provided bid phase support, construction inspection, testing, and reporting.



Title XVI  
Feasibility Study

Bureau of  
Reclamation

Hoch + Trussell  
Partnership

Evaluation of existing  
water quality data to  
guide treatment design



# Regional Plant Ultraviolet Disinfection System Upgrade Feasibility Study

VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY



The Victor Valley Wastewater Reclamation Authority's (VWVRA) critical project at their Westside Water Reclamation Plant (WWRP) includes the replacement of their existing UV equipment and determining the feasibility of installing a new low-pressure high-output (LPHO) closed vessel UV system. Hoch is working with Xylem's engineering team to develop a robust strategy for the construction and installation of the selected equipment.

Our team's approach is to provide the VWWRAs management, engineering, operation, and maintenance staff with important information, including costs, O&M ease, and constructability of the Wedeco LBX reactors for both gravity and pumping feed installation scenarios. Installation of Wedeco LBX 1500 UV Reactors will provide redundancy of treatment equipment at Westside, Happy Valley, and Hesperia.

Retrofits of existing treatment facilities can be complex, as plant permit compliance and treatment performance must be maintained while replacing existing equipment with new equipment. The long-term success of this retrofit project depends on the careful planning laid out in the Feasibility Report.



Feasibility Study

Cost-Conscious Design

Layout Development and Hydraulic Feasibility

Constructability of Tertiary Treatment Disinfection



# Pure Water Oceanside

## CITY OF OCEANSIDE



*Hoch actively managed, but didn't prepare, the Title XVI feasibility study. Trussell was a member of the feasibility study team.*



Pure Water Oceanside is an indirect potable reuse (IPR) groundwater augmentation project. The initial construction phase included construction a 4.5 million gallon per day (MGD) advanced water purification facility (AWPF) that is expandable up to 6.0 MGD in a subsequent phase, conveyance piping, backwash piping, injection wells, monitoring wells, an upper recycled water pump station, blending facilities for both the upper and lower recycled water service areas, and Nitrification Denitrification upgrades in plant 2 at the San Luis Rey Water Reclamation Facility (SLRWRF). The Project included a direct coupled UF/RO train, Hydranautics ESPA 2 membranes, and a predictive algorithm for the UVAOP system. The City began injecting water into the Mission Groundwater Basin in December, 2021.



Secondary Wastewater Characterization Study

NPDES and Regulatory Permitting

First Indirect Potable Reuse (IPR) project online in San Diego County


Bureau of Reclamation

## Indian Wells Title XVI Feasibility Study

### INDIAN WELLS VALLEY GROUNDWATER AUTHORITY

Indian Wells Valley Groundwater Authority contracted Stetson Engineers and Trussell Technologies to perform a Recycled Water Use Alternatives Analysis of the potential beneficial uses of recycled water. This analysis was performed to identify the additional treatment requirements for the City’s wastewater treatment facility and to develop recycled water projects that not only are cost-effective but also contribute to sustainable basin management consistent with the Groundwater Sustainability Plan for the Indian Wells Valley Groundwater Basin.

Trussell led the evaluation of various potable and non-potable treatment alternatives and the costs associated with three alternatives: i) tertiary treatment with landscape irrigation (non-potable reuse); ii) tertiary treatment with surface spreading (potable reuse); iii) tertiary and advanced treatment with subsurface injection (potable reuse). This began with an evaluation of the source water quality and the criteria described in the regulations for potable and non-potable reuse. The investigation into non-potable reuse via irrigation included a robust evaluation of tertiary filtration and disinfection technologies including preliminary design criteria. Trussell also identified research needs and performed a preliminary planning level treatment and cost analysis.



**Non-potable reuse treatment evaluations**

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**Potable reuse treatment evaluations**

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**US Bureau of Reclamation Title XVI Feasibility Study**

## Ventura Water Reclamation Facility Membrane Bioreactor and Ultraviolet Disinfection Upgrade

### CITY OF VENTURA

The City of Ventura is pursuing an upgrade to its Ventura Water Reclamation Facility (VWRF) that includes a membrane bioreactor (MBR) as the secondary treatment process and ultraviolet light (UV) as the disinfection process. The MBR/UV Upgrade Project is a critical step to meeting the objectives of the Consent Decree to reduce discharges to the Santa Clara River Estuary and to divert treated water for beneficial reuse by the end of 2025. This project will replace aging infrastructure, improve tertiary water quality, and become the first treatment components of the planned VenturaWaterPure potable reuse advanced purification process. The existing aeration tanks, secondary clarifiers, and gas chlorine disinfection systems will be replaced with new MBR/UV treatment facilities. The existing VWRF headworks, primary clarifiers, and primary equalization facilities will be utilized to treat and equalize diurnal and wet-weather flow variations ahead of the new MBR/UV treatment facilities.

The discharge to the Santa Clara River Estuary has strict limits such as very low nitrate concentrations. A biological process model was used to design the secondary treatment process under current and future flow conditions. The process will include aerobic and anoxic tanks to promote nitrification and denitrification in all scenarios. The tertiary treated water from the MBR and UV process will be directed to the following locations: 1) new indirect potable reuse treatment (with potential for future direct potable reuse); 2) existing non-potable reuse; 3) regulated continued discharge limit to the Santa Clara River Estuary; and 4) flows to the ocean outfall. The overall program objective is to provide water quality that satisfies all destinations of the tertiary treated water. Trussell is leading the design of the biological treatment process MBR, and UV disinfection system.



**Biological design for strict nutrient requirements**

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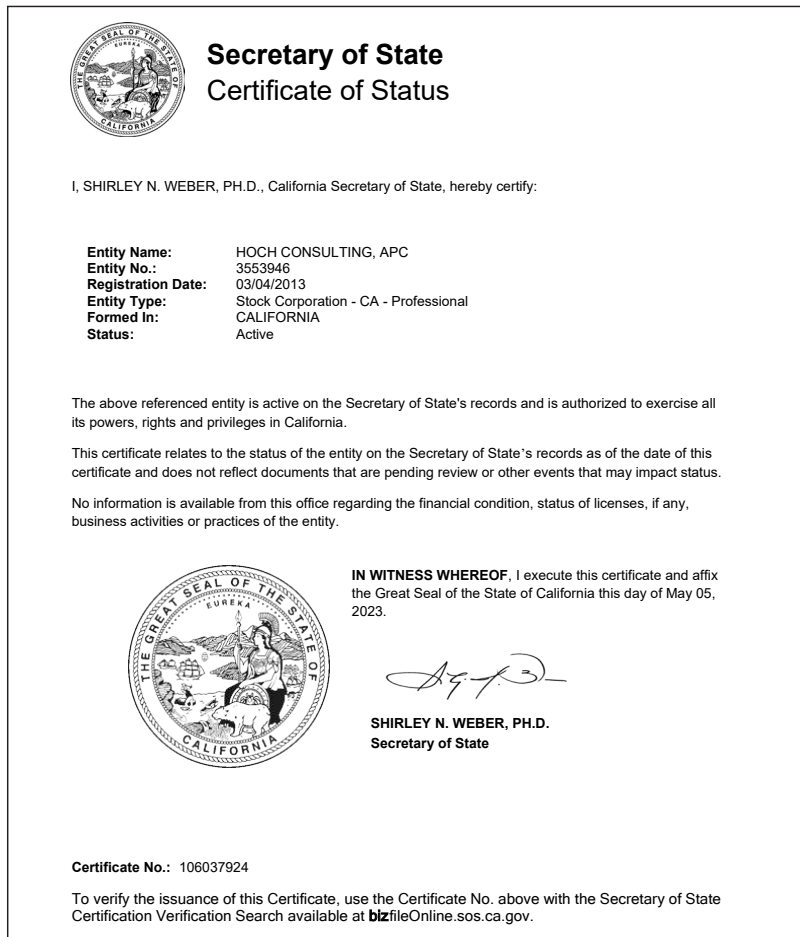
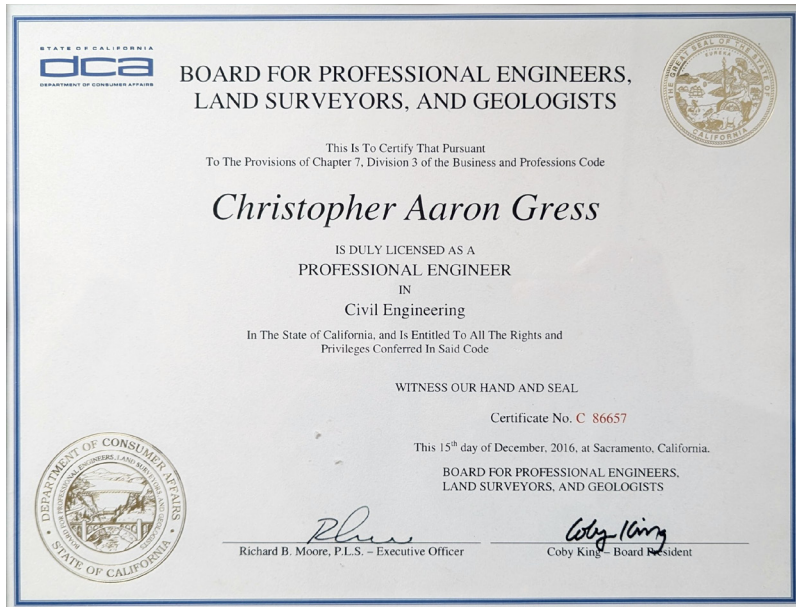
**MBR design for non-potable recycled water and potable reuse**

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**UV disinfection design for non-potable recycled water and potable reuse**

3. Evidence of California Licensing.

The proposal should include appropriate documentation showing the Proposer is properly licensed in the State of California to perform the Services requested in the scope of work.

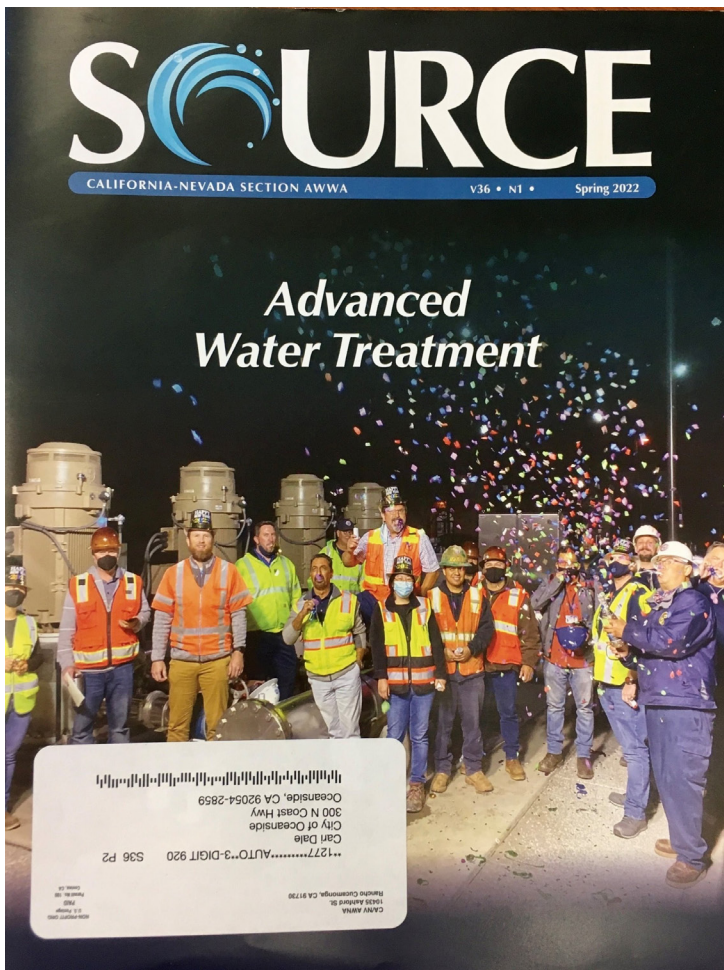




4. References.

The Proposer shall provide a minimum of four (4) client references, preferably city, county, or special district governments for whom the Proposer has previously performed services of similar type and scope within the last 5 years.

<b>PROJECT NAME</b>	<b>Groundwater Return Flow Title XVI Feasibility Study</b>  <b>FEASIBILITY STUDY</b>	<b>Regional Plant UV Disinfection System Upgrade Feasibility Study</b>  <b>FEASIBILITY STUDY</b>	<b>Pure Water Oceanside</b>  <b>FEASIBILITY STUDY</b>	<b>Indian Wells Title XVI Feasibility Study</b>  <b>FEASIBILITY STUDY</b>
<b>CLIENT</b>	Rainbow Municipal Water District	Victor Valley Wastewater Reclamation Authority	City of Oceanside	Stetson Engineers, Vice President
<b>CONTACT</b>	Amanda Parra, Project Manager	Latif Laari, Environmental Compliance Manager	Lindsay Leahy, Water Utilities Director	Stephen Johnson
<b>PHONE</b>	760.728.1178	760.246.8638 ext. 285	760.435.5913	626.331.7065
<b>EMAIL</b>	<b>aparra@rainbowmwd.com</b>	<b>llaarievwra.com</b>	<b>lleahye@oceansideca.org</b>	<b>jeffhestetsonengineers.com</b>



At Hoch, we are driven by a commitment to engineering excellence and environmental stewardship. Our pioneering project showcased on The Source's cover exemplifies our dedication to redefining industry standards and setting new benchmarks for innovation in water reuse initiatives.



“  
**For the past seven years, Hoch Consulting has provided exceptional service to the City at an affordable rate related to the management and beneficial use of the Mission Groundwater Basin.**

**Lindsay Leahy, Water Utilities Director, City of Oceanside**

### 5. Subcontractors.

*The Proposer shall identify functions that are likely to be subcontracted and identify the subcontractor that is anticipated to perform each function, if known at this time.*



HELIX Environmental Planning is a leader in environmental planning, design, and natural resource sustainability. Established in 1991, HELIX provides a broad range of environmental compliance services throughout California and the western United States. Their team has extensive experience helping public and private clients across a variety of sectors comply with local, state and federal environmental laws and regulations, manage natural and cultural resources, and design and construct sustainable projects. Creative problem-solving, a high level of commitment to our clients, and high-quality service and products are the hallmark of HELIX's success. Many clients, as a measure of their confidence, bring their largest, most sensitive, and controversial projects to them.

HELIX has extensive expertise and a proven track record helping water districts, municipal water departments, and other public agency and utility clients successfully navigate environmental compliance requirements. HELIX has provided environmental consulting services – many of which were under long-term on-call contracts – for more than 1,000 water infrastructure and management projects spanning potable, waste water, and recycled water (e.g., water storage/reservoirs, treatment plants, pump/lift stations, pipelines, groundwater extraction/replenishment, wells, outfalls, canals, drainages, and emergency repairs).



For nearly two decades, Trussell has been involved in a multitude of water reuse projects throughout the state, providing innovative ideas to implement projects even when there isn't always a clear path forward. Examples include designing advanced treatment systems to maximize pathogen log reduction credit (East County Advanced Water Purification Program), developing creative waste discharge permitting strategies (Pure Water Monterey), and guiding the City of San Diego as they become the first to implement surface water augmentation in California (San Diego Pure Water Program). Trussell's understanding of California's rigorous regulations has been an asset to recycled water projects, particularly those implementing potable reuse. Trussell has been intricately involved in the development of potable reuse regulations, from groundwater recharge and surface water augmentation to the new frontier: direct potable reuse. With our extensive involvement in the research that the regulations are being founded on, Trussell guides clients through the stages of developing a potable reuse project and navigating the regulatory complexity that often comes with them.

## C. PROPOSED METHOD TO ACCOMPLISH THE WORK

Describe the technical and management approach to providing the Services to VSD. Proposer should take into account the scope of the Project, goals of VSD, and general functions required. Include a draft schedule of tasks, milestones, and deliverables that will provide for timely provision of the Project. In reviewing the scope of work, the Proposer may identify additional necessary tasks and is invited to bring these to VSD's attention within the discussion of its proposed method to accomplish the Project.

### PROJECT UNDERSTANDING

Valley Sanitation District (VSD) is working on an critical planning project to assess the feasibility of using recycled water for various reuse applications. The Recycled Water Feasibility Study aims to create a plan for a tertiary treatment facility that can produce up to 1 million gallons per day (MGD), which can be expanded as needed. The facility will use some of the secondary effluent it produces. While negotiations for the reuse of the water are still in progress, VSD intends to use the recycled water to irrigate a nearby golf course, which will require additional infrastructure such as a holding tank and pumping station.

**Hoch has direct experience with the prescriptive funding requirements for meeting Reclamation's Standards.**

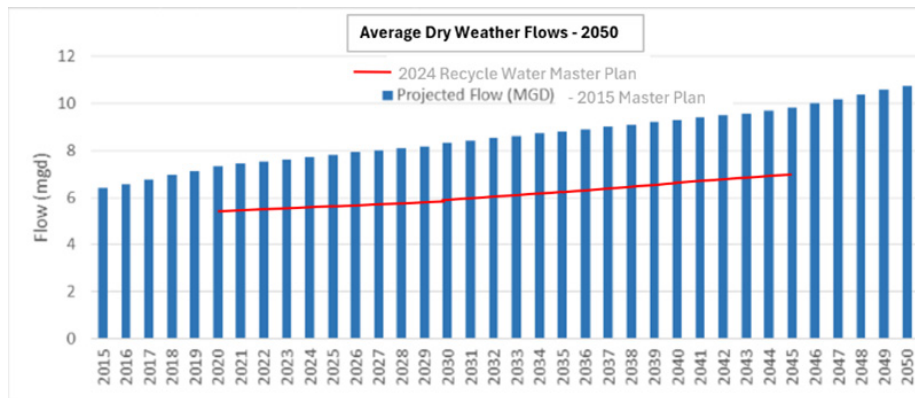
**Hoch will follow Reclamations WTR 11-01 Formatting Guidelines for developing the Feasibility Report and provide any necessary Crosswalk Documentation to meet WRFPP requirements.**

The primary goal of the project is to identify the best treatment approach to deliver recycled water to the intended end-users, which will be determined during the project. Hoch will provide a Feasibility Study that complies with Reclamation's WTR 11-01 Reclamation Manual Directives and Standards and create a Cross Walk document to meet the requirements of WRFPP Grant Requirements. This will maximize the eligibility of the project for Federal and State grants.

Recent planning studies by the District have indicated that there has been a decrease in projected flows due to water conservation efforts (see projected flow summary to the right). As a result, the concentration of wastewater has increased, and the observed flows have either remained steady or decreased despite an increase in population.

**It is crucial to incorporate this understanding into the feasibility evaluation to ensure the success of the project.**

### PROJECTED FLOW SUMMARY



**Hoch's Advantage: Collaborative Approach Maximizes Value.** We listen to and collaborate with our clients. To fully understand your vision for success on this project requires a "meeting of the minds." We have already started this process during the project site walk with Ron Buchwald, District Engineer and the District's Chief Plant Operator and will continue this dialogue through project completion. We rely on your operations staff to provide day-to-day working knowledge of the systems and we know, having used this approach on many successful projects that this valuable perspective results in creative ideas and technically solid solutions.

*Our approach means...*

Optimizing your budget

Communications plan focused on listening to you

**We're focused on exceeding your expectations**

Standards & tools to ensure the design meets expectations

Rigorous quality reviews to produce best planning document

Hoch Consulting | Recycled Water Feasibility Study

29 **99**



**TECHNICAL APPROACH:**

Hoch has assembled an industry leading team of experts to deliver a comprehensive plan for implementing a recycled water plan for Valley Sanitary District. Our approach includes three core strategies to successfully meet your project goals:

- 01 Secondary WW Characterization, Technology Selection, Alternative Evaluation
- 02 Environmental & Permitting Coordination
- 03 Funding Eligibility Optimization



**01 A. Secondary Wastewater Characterization**

Hoch and our teaming partner, Trussell Technologies, will conduct a wastewater characterization study to inform decision-making surrounding tertiary treatment planning. Wastewater characterization for secondary treatment is pivotal for recycled water planning as it allows for understanding influent pollutants, optimizing treatment methods, and complying with environmental regulations. By identifying pollutants and optimizing the secondary treatment, for example, for nutrient removal, effective tertiary treatment can be planned to ensure regulatory compliance with recycled water policies, minimizing environmental impacts, protecting public health, and promoting resource recovery in wastewater management.

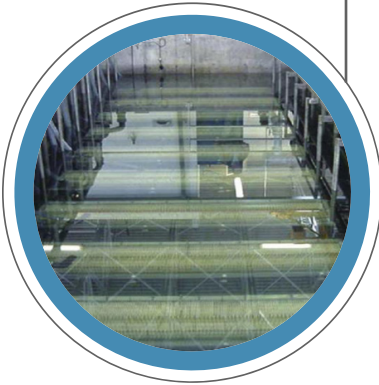
Trussell Technologies is an industry leader in developing secondary wastewater characterization standards and studies and has pioneered study development in California. The study will determine the effectiveness of upstream processes in removing and inactivating pathogens, which helps select appropriate treatment components for this phase of the work and for future expanded phases. As a consultant to the City of Oceanside, their work in this area was recognized by the Obama White House Administration in the “Commitments to Action on Building a Sustainable Water Future.” Trussell’s familiarity in leading this type of study will be pivotal in guiding this project to success.

**01 B. Technology Selection**

Following secondary treatment characterization, Hoch and its partner will evaluate technology alternatives for tertiary treatment, including filtration and disinfection per Title 22 Recycled Water regulations. Selecting appropriate treatment technologies is crucial for VSD to establish a sustainable future for its customers. Each technology has specific advantages, limitations, and applicability based on effluent quality requirements, treatment objectives, site conditions, operational considerations, and cost. Our Project Team possesses extensive experience in designing, operating, and optimizing Title 22 Recycled Water facilities statewide, covering biological treatment, filtration technologies, and disinfection. Our operational expertise allows us to consider essential evaluation criteria beyond costs, such as process operability, maintenance ease, operator safety, and overall robustness. Our goal is to conduct comprehensive evaluations to ensure VSD adopts the most suitable technical solutions for a resilient recycled water project, paving the way for future water recycling initiatives. The evaluation will include, but is not limited to the following process treatment alternatives:

## PROCESS ALTERNATIVES FOR FILTRATION

### Membrane Bioreactor (MBR)



The membrane bioreactor (MBR) process is unique in that it integrates directly into the secondary treatment process by filtering the mixed liquor from the biological process and replaces the secondary clarification process. If MBR is implemented into the secondary treatment process, no further filtration method is necessary, and the disinfection method can follow the MBR process directly. Though a well-established technology, MBR is becoming increasingly popular in plant upgrades, plant expansions, and greenfield projects throughout the state due to the substantial space savings associated with eliminating secondary clarifiers as well as the improved effluent water quality (turbidity < 0.1 NTU, typical) which is well suited for recycled water projects. MBRs are offered in both flat sheet configurations and hollow-fiber membrane configurations, which vary in cost (capital and operations and maintenance), footprint, ease of operations, and potable reuse-readiness (i.e., pathogen log crediting) implications.

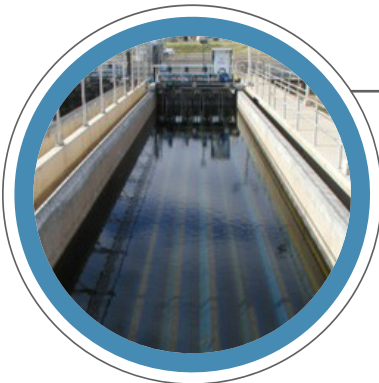
Another membrane alternative to MBR is more traditional hollow-fiber membrane filtration (MF) modules, which, rather than treating mixed liquor from the biological process, would treat secondary effluent from the clarifiers. MF is offered in microfiltration (0.1 micron) and ultrafiltration (0.01 micron) pore sizes. While MF produces high turbidity effluent quality, it does not have the same benefits of space savings associated with eliminating the secondary clarifiers.

### Granular Media Filters:



Granular media filters (GMFs) are a reliable industry standard for tertiary filtration for recycled water. GMFs are fed with secondary effluent and produce low turbidity effluent suitable for Title 22 Recycled Water standards, though typically an order of magnitude higher than membrane filtration alternatives (turbidity <1 NTU, typical).

### Cloth Filters:



Cloth filters are low-cost, packaged system alternatives that are also fed with secondary effluent and are often associated with reduced footprint and operations and maintenance costs. Though turbidity is similar to GMF on average, facilities can experience occasional spikes in turbidity when upstream treatment is not optimized.

**Trussell has been on the cutting edge of free chlorine disinfection design, testing, and permitting in California, having supported the approval of free chlorine as an alternative disinfection process at seven facilities in California and is currently involved with six more. The CTs for these projects ranged from 9 to 41 mg-min/L, resulting in significant cost savings in chemical and chlorine contact basin infrastructure for clients.**

## PROCESS ALTERNATIVES FOR DISINFECTION



### Free Chlorine

UV disinfection can be configured as a closed vessel reactor or open channel. Closed vessel reactors have smaller footprints and are more modular but require flow under pressure, whereas open channel reactors have larger footprints with less flexible design configurations.



### Ultraviolet Light

Although recognized as the industry standard for recycled water disinfection, chlorination has nuances. For one, plants that do not nitrify have ammonia in the secondary effluent, which persists through filtration to the disinfection process and reacts with chlorine to form chloramines. Chloramine disinfection, the established way of disinfecting wastewater with chlorine, requires a concentration times modal contact time (CT) of at least 450 mg-min/L. Plants that fully nitrify effectively eliminate ammonia from the effluent stream meaning that free chlorine disinfection can be implemented. Free chlorine is a much stronger disinfectant than chloramines and can significantly reduce required CT.



### Ozone

Ozone, though far less common for Title 22 Recycled Water due to its cost, can be implemented and leveraged for its additional benefits of chemical oxidation for a potential future potable reuse project (including direct potable reuse, which requires ozonation).

## 01 C. Site Planning Alternative Evaluation

Hoch will use the information developed in the technology evaluation to establish up to three site alternatives, including preliminary site layouts, planning criteria, and cost estimates. Additionally, Hoch will include an evaluation of the required planning alternatives, including a no-project alternative. Each site alternative will be incorporated into the feasibility report as described below.

### FEASIBILITY REPORT

Hoch will develop a comprehensive Feasibility Report in the Bureau of Reclamation WTR 11-01 formatting guidelines. Hoch's Water Resources team has the experience to guide the technical decisions and planning documents into Reclamations prescriptive funding requirements. It can perform the necessary Crosswalk documentation to meet the WRF Planning Grant requirements.

**Hoch has the best available team to implement technical strategies for the prescriptive Feasibility Study process.**



"Aaron Gress provided complex technical solutions in managing the only second pass agricultural drainage treatment facility in the United States. His contributions ranged from complex calculations to directing multi-step optimization efforts. He was always willing to be the facilities' hands on leader to direct project success. **I would consider Aaron a great asset to any team looking for a dedicated individual who seeks creative and practical solutions to water treatment challenges.**"

*Miguel Arias-Paic*

*United States Bureau of Reclamation, Technical Practice Lead*

**Important Considerations for Recommended Treatment Approach**

- Modular Technology for implementation of phased approach (1 MGD – 6 MGD)
- Operator Safety
- Operator Control/O&M
- Permitting
- Construction
- Equipment
- Site Limitations

**ACTIVE SITE CONSIDERATIONS**

**MAP LEGEND**

- Yard Piping from Secondary Clarifiers
- MBR/Cloth-Filter
- Chemical Feed Building
- Pumping Station
- Backwash Piping
- Effluent Piping



Hoch will work with the District to develop a forward thinking site plan by not only planning for future recycled water use in a phased approach, but also Advanced Water Treatment processes. Hoch will work with the operations and the engineering staff to determine the best path forward for implementing new treatment technologies using the updated planning documents that reflect current water conservation. Given the current planning conditions Hoch will evaluate existing infrastructure including the existing aeration basins, the old contact basin, and existing chemical feed systems to determine the most cost-effective path forward.

**02 ENVIRONMENTAL & PERMITTING**

- Hoch and our subconsultant Helix Environmental, will determine all necessary permits, including environmental permits needed to implement a Recycled Water Project.
- Review Existing discharge permit, the extent of any riparian habitat in the Whitewater River as a result of and dependent on VSD discharges, and habitat impacts (if any) to downstream uses in the Salton Sea as a result of discontinued or reduced discharges from VSD
- Identify environmental opportunities and constraints and the necessary analysis to ensure compliance with the California Environmental Quality Act (CEQA) and/or National Environmental Policy Act (NEPA).
- Make recommendations for the next steps regarding the recommended treatment approach.

**03 FUNDING ELIGIBILITY OPTIMIZATION**

- Hoch will preparing a crosswalk documentation to meet the requirements of the WRFPP.
- A task to evaluate recycled water market assurances, a section not required per WTR 11-01, will be developed to satisfy WRFPP needs.
  - Hoch will liaise with the City of Indio, tribal representatives from the Cabazon Band of Mission Indians, the Bureau of Reclamation, the State Water Resources Control Board, the Regional Board, and organizations responsible for permitting activities. Hoch also intends to proactively reach out to NGOs and other regional stakeholders as deemed of interest by District staff.



# Management Approach

## Project Milestones

Hoch's approach also includes a methodological approach to presenting information, soliciting stakeholder feedback, and making decisions, that includes the following project milestones

1. Project kickoff
2. Secondary wastewater characterization and alternatives evaluation review workshop
3. Permitting review workshop
4. Feasibility study workshop

## Project Kickoff

At the project kickoff meeting, Hoch will engage all project stakeholders to define the project goals, approach, and methodology. We will solicit feedback from all stakeholders and modify our approach and methodology based on feedback received.



## Secondary Wastewater Characterization and Alternatives Evaluation Workshop

After project kickoff, Hoch's team will engage in development of both the secondary wastewater characterization TM and Tertiary Treatment Alternatives TM to identify the best treatment approach for the District. The review workshop will provide an opportunity for discussion of existing data, findings and recommendations and solicit stakeholder input on the evaluations performed and next steps.

## Feasibility Report Workshop

Based on the information evaluated during the development of TMs and permitting analysis, and any supplementary information, Hoch will complete the feasibility study, including evaluation of three site alternatives. The feasibility study will provide an analysis of the cost of water, inclusive of current and future anticipated costs, and make recommendations for any further technical studies needed to advance the project. The feasibility study workshop will present the initial project recommendations and solicit stakeholder input on the recommendations. The feasibility study will incorporate stakeholder feedback following the workshop.

## Environmental and Permitting

Hoch will conduct a permitting review workshop to solicit information and incorporate the findings into the planning process. Hoch and our partners will develop a PowerPoint presentation to guide the group discussions and questions and answers. The goal of the workshop will be to provide a comprehensive understanding of the permitting process, any potential roadblocks to a smooth permitting process and to address any concerns or queries. After the workshop, we will conduct any follow-up research and compile the workshop materials and our findings into a draft Permitting

TM for VSD review and comment. The contents of the TM workshop will be incorporated into the Feasibility Study document.



## SCOPE OF WORK

Hoch will implement the District's identified scope of services, and have organized our approach into the following Tasks identified in the following sections.

- Review existing reports and drawings (Task 1)
- Review grant funding requirements and documentation (Task 3)
- Prepare a Feasibility Study that is consistent with Reclamation's requirements and standards (Task 4)
- Conduct field visits and verify the location of utilities, obstructions, existing facilities, and points of connections (Task 1)
- Attend site visits, meetings, etc. (Task 1)
- Attend progress meetings virtually and/or on-site (Task 1)
- Discuss the preparation of a topographic survey (Task 4)
- Determine possible design alternatives (Task 4)
- Act as a liaison between VSD, the City of Indio, the Cabazon Band of Mission Indians, other utilities, community programs, federal (BOR), state, county, and any other development-related entities (Task 3)
- Identify out-of-scope work items (Task 1 – 4)
- Identify project permitting requirements and initiate permitting activities as necessary (Task 2)
- Incorporate Build America Buy America Act and other Federal requirements into the study (Task 2 – 4)
- Project must meet the requirements of SWRCB's Planning Grant (Task 2 & 4)
- Project must meet the requirements of BOR's Notice of Funding Opportunity (Task 2 & 4)
- Project study shall begin to address environmental compliance regulations (both NEPA & CEQA requirements) [Task 2]

### Task 1 – Project Management, Data Collection & Review, and Meetings

Provide overall leadership and team strategic guidance aligned with the VSDs objectives. Coordinate, monitor, and control the project resources to meet the technical, communication, and contractual obligations required for developing and implementing the project scope.

**1.1 Invoice Status Reports:** Hoch will prepare monthly invoices, including expenditures by task, hours worked by project personnel, and other direct expenses with the associated backup documentation. Monthly status reports will accompany each invoice and include comparisons of monthly expenditures and cumulative charges to budget by Task, including cost-to-complete, earned value, cash flow, and certified firm participation.

**1.2 Management, Coordination and Meetings:** Hoch's Project Manager (PM) will manage and coordinate the technical and scope issues of the overall project. Progress meetings will be conducted as appropriate. Hoch will also coordinate with the District to communicate the status of the project.

- » **Kick-Off Meeting** – We will host an initial meeting to discuss the application schedule, identify team member roles and responsibilities, and review data requests. Most critically, we will clarify the project's scope of work, budget, and schedule. We will also engage in a strategic discussion regarding how to effectively address and align with the funding program's scoring criteria and vet a technical narrative that best responds to the funding opportunity's evaluation criteria.
- » **Schedule Development** – Hoch will develop a detailed schedule with key milestones and check-ins (driven by the submittal deadline) that builds in time for the District to review, provide input, and issue final approvals and signatures prior to submittal.
- » **Meetings and Workshops** – Hoch will coordinate regular progress meetings with the District's PM as necessary and will assume up to one progress meeting a month. Three additional workshops will be held at the key project milestones including a secondary wastewater characterization and alternatives evaluation review workshop, permitting and funding support review workshop, and feasibility study workshop.



**1.3 Data Collection & Review:** Hoch Consulting will review studies, reports, data, and other information regarding the Valley Sanitary District and the proposed Project. Known studies to be reviewed include the 2015 Water Reclamation Facility Master Plan (MWH), the anticipated 2024 Recycled Water Master Plan (Carollo and the Water Recycling Funding Program Planning Grant Agreement No. D2205007, California State Water Resources Control Board Water Recycling Funding Program Guidelines, Reclamation Manual/Directives and Standards WTR 11-01 and various documents pertaining to the East Valley Reclamation Authority and the Indio Water Authority. Hoch will also review the Bureau of Reclamation WaterSMART Planning Grant agreement, once executed. We propose to use historical and existing information to develop a Feasibility Study; however, we will also identify any potential critical knowledge gaps and make recommendations for additional investigations if warranted.

Hoch will develop project data request log, request data from District staff and provide proactive and early identification of critical documents that may be time sensitive, including board resolutions, letters of support, and other required documentation. As additional data gaps are identified, site visits can be conducted to collect required information for proposed treatment integration. Hoch will prepare and maintain a list of supplemental data needed for the project, submit the list to the District, and coordinate the data collection and evaluation.

**Task Deliverables:** Hoch will deliver to VSD monthly invoice and status report covering:

- Work on the project performed during the previous month.
- Meetings attended.
- Problems encountered and actions taken for their resolution.
- Potential impacts to submittal dates, budget shortfalls or optional services.
- Budget analysis.
- Issues requiring project team action.

**Task Assumptions:**

- Kick-off meeting will be held in person.
- Additional workshops and regular meetings will be virtual.

- Hoch assumes up to 14 regular progress meetings attended by Hoch's Project manager and the District's PM
- Three, two-hour workshops will be held, and attended by Hoch Project Manager, Technical Lead, and subcontractors
- Project is assumed to be 14months therefore, it is assumed there will be 14 progress payments/status reports.
- VSD's staff will provide the following:
  - Necessary information on the facilities and respond to additional requests for information.
  - Site access for site visits, with an operator familiar with facility as required.

## **Task 2 – Environmental & Permitting Support**

- Hoch's subconsultant Helix Environmental will determine all necessary permits, including environmental permits needed to implement a Reclaimed Water Project at the existing VSA facility. Helix will identify environmental opportunities and constraints and necessary analysis needed to ensure compliance with California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA) with particular emphasis on the riparian habitat in the Whitewater River, which may have been created as a result of VSD discharges. The environmental review will also consider habitat impacts (if any) to downstream uses in the Salton Sea as a result of proposed discontinued or reduced discharges from VSD, endangered or threatened species, public health and safety, natural resources, cultural resources, air resources, greenhouse gas emissions, energy, noise, and transportation impacts.
- Our Permitting support also includes a review of Colorado River Basin Regional Water Quality Control Board Order R7-2020-007, consult with Regional Board staff to explore permit modifications or whether a new permit issuance to allow for tertiary water service. Hoch will determine whether a new new permit will need to be issued to allow for a Report of Waste Discharge can be submitted to the Board inclusive of both the proposed tertiary facilities as well as the permit renewal information for NPDES No. CA 0104477.

- Hoch will also prepare a discussion of environmental compliance measures that have been prepared in relation to the proposed water reclamation project, a discussion of how the proposed project will impact water supply and water quality in the watershed and river and a discussion regarding public communication and public involvement in the project. Hoch has a long-standing working relationship with Ardurra, who we understand is currently under contract with the district for Public Relations and we can coordinate with Ardurra to obtain information on any media related to the project for inclusion in the Feasibility Study, as required by WTR 11-01 standards.

**Task Deliverables:**

- Environmental & Permitting Summary TM

Helix will prepare a single high-level environmental summary TM that will identify the likely issues that may result in significant impacts. The following tasks will be included:

**Task Assumptions:**

- Biological Review
- Cultural Resources
- Environmental Review
- Summary of Next Steps

**Task 3 – WRF Planning Study and Crosswalk**

**Task 3.1 Crosswalk Document Preparation**

Hoch will conduct a crosswalk between the Bureau of Reclamation’s Title XVI Feasibility Study and the SWRCB’s Water Recycling Funding Planning Study requirements. The State Board allows for this budget conserving approach to meeting the study contents outlined in Agreement No D2205007. Hoch will compare and analyze the content of both documents to identify similarities, differences and areas of overlap and will create a mapping or alignment table that outlines the corresponding sections or topics in both documents, serving as a guide for the crosswalk analysis. Hoch will draft a report which will serve as the WRF Planning Document, incorporating the alignment table, integrating shared data and information between the documents and develop sections to cover gaps between both documents.

Most of the technical details prescribed in WTR 11-01

are duplicative of requirements in the WRF guidance documents with a few exceptions. We anticipate that the WRF requirement to characterize wastewater and facilities will necessitate additional research and analysis above and beyond that detailed in the Bureau of Reclamation Feasibility Report. Our proposed approach to characterizing secondary wastewater, is proposed under Task 4.1 below, and will meet the intent of the WRF guidelines. We also anticipate a gap associated with recycled water market assurances as it is not a requirement of WTR 11-01 and for that reason, it is included as a separate task below which will be incorporated into the WRF Crosswalk documentation for submittal to the Board.

**Task Deliverables:**

- WRF Planning Study
- Crosswalk Comparison of WRF Planning Study and Title 16 Feasibility Study

**Task 3.2 Recycled Water Market Assurances**

Hoch will meet with VSD staff to discuss and explore options for assuring use of recycled water by end users, as required by the Water Recycling Funding Program Guidelines. Hoch will present the potential benefits, drawbacks, and anticipated implementation timelines of executing either a mandatory use ordinance in partnership with the Indio Water Authority, developing a recycled water user contract or forming a special assessment district.

Once a pathway has been determined, Hoch will draft the appropriate documents (either a mandatory use ordinance or a recycled water user contract template) for VSD implementation.

**Task Deliverables:**

- Mandatory Use Ordinance or Recycled Water User Contract Template

**Task Assumptions:**

- Crosswalk documentation will be prepared after the development of the Bureau Feasibility Report, recognizing the completion date of 11/30/25 as detailed in Agreement No. D2205007.
- Our cost proposal assumes either implementation of the mandatory use ordinance or development of a user contract.

## Task 4 – Feasibility Report

### 4.1 Secondary Wastewater Characterization TM

Optimization of the biological treatment process is the most impactful design consideration for capital cost, operations and maintenance (O&M) costs, ease of operations, and effluent quality for recycled water projects. In this task, Hoch’s process subconsultant, Trussell, will characterize the current performance of the secondary treatment process at VWD’s Water Reclamation Facility (WRF). In the first 2 months following notice-to-proceed (NTP), Trussell will analyze the historical and projected wastewater flows (e.g. average dry weather, max month, peak hour) and loads (e.g., Total Kjeldahl Nitrogen, biological oxygen demand, total suspended solids) which will serve as the basis for the process evaluation. The project team will utilize data presented in the draft 2023 Recycled Water Master Plan and work with VSD staff for any additional data requests to ensure that the most accurate flow and load data and assumptions are used in the evaluation. In addition to the flow and load data, the first three months following NTP will include wastewater characterization sampling campaign will be performed which will include more detailed biological process parameters such as volatile suspended solids, soluble biological oxygen demand, soluble chemical oxygen demand, flocculated filtered chemical oxygen demand, and soluble Total Kjeldahl nitrogen. The detailed wastewater characterization sampling data, along with the historical flow and loads data, will be used to build a GPS-X model of the WRF. The model will evaluate current and future operating conditions, including the potential for low effluent nutrient limits to the Coachella Valley Stormwater Channel (CVSC) or to a future indirect potable reuse project. The biological modeling will also include a preliminary evaluation of conversion to nitrification-denitrification (NDN), which would provide a high-quality, low nutrient effluent and allow for conversion to free chlorine disinfection.

Trussell will summarize all data, assumptions, and modeling outcomes in a draft Secondary Wastewater Characterization TM. The draft TM will also include projected capital and O&M costs associated with any proposed secondary modification. Following a workshop and City review of the draft TM, a final Secondary Wastewater Characterization TM will be developed and submitted.

### 4.2 Tertiary Treatment Alternatives Evaluation TM

In this task, Hoch’s subconsultant Trussell will evaluate different technologies for tertiary treatment and develop a Tertiary Treatment Alternatives Evaluation TM.

According to the Title 22 Recycled Water Regulations, tertiary treatment involves the filtration of secondary treated recycled water and its disinfection, under a few specific rules that will be laid out in the TM.

For the filtration aspect of the tertiary treatment, the following technologies will be evaluated: cloth filters, granular media filters, membrane filtration such as membrane bioreactors (which also involves an upgrade to the secondary treatment), among others. For the disinfection factor, the following technologies will be assessed: ozone, ultraviolet light (UV), free chlorine, and chloramines.

The pros and cons of each technology will be assessed along with a high-level cost estimate, including capital costs and operational and maintenance costs for each unit treatment process. The connection with different types of water reuse will be highlighted for each technology, i.e., the easiness of transition to water reuse will be evaluated and explained for each option.

Trussell will summarize the unit process evaluations in a draft Tertiary Treatment Alternatives Evaluation TM. Following a workshop (included under Task 1) and City review of the draft TM, a final Tertiary Treatment Alternatives Evaluation TM will be developed and submitted.

### 4.3 Feasibility Report

Hoch will use the information developed in Task 1, 2, and 3 to develop up to three site alternatives and will include preliminary site layouts, planning criteria, and costs estimates for each. Additionally, Hoch will include an evaluation of the required planning alternatives including a no-project alternative. The Alternatives will be incorporated into the Feasibility Study which will be developed using Reclamations WTR 11-01 formatting guidelines. At a minimum, the feasibility study will cover the following information:

- Introductory Information
- Statement of Problems & Needs
- Water Recycling Opportunities

C. PROPOSED METHOD TO ACCOMPLISH THE WORK

- Description of Alternatives
- Economic Analysis
- Selection of the Proposed Recycle Project
- Environmental Considerations and Potential Effects
- Legal and Institutional Requirements
- Financial Capability of Sponsor
- Research Needs

- One (1) Final Feasibility Report with comments from Draft Report incorporated.
- One (1) Secondary Wastewater Characterization and Alternative Evaluation Review Workshop
- One (1) Feasibility Report Workshop

Task Assumptions:

- Feasibility Report will be formatted per Reclamations WTR 11-01 formatting guidelines
- Information collected in Tasks 1, 2, and 3 will be used to develop the Feasibility Report
- Hoch will work with the District to develop up to three site alternatives to include in the Feasibility Report
- Preliminary evaluation of site topography will be included in the alternative evaluation based on available topography information. Additional surveying will not be conducted as part of the planning phase.
- Review workshops are summarized in Task 1
- Evaluation

Task Deliverables:

- One (1) Draft Secondary Wastewater Characterization TM
- One (1) Final Secondary Wastewater Characterization TM
- One (1) Draft Tertiary Treatment Alternatives Evaluation TM
- One (1) Final Tertiary Treatment Alternatives Evaluation TM
- Three Site Alternatives
- One (1) Draft Feasibility Report

Optional Tasks

Task 5 - MODA Evaluation (Optional)

As an Alternative Task, Hoch proposes conducting a Multi-Objective Decision Analysis (MODA) Evaluation to determine the most efficient treatment approach based on selected criteria important to the District. A MODA evaluation can help prioritize investments based on their performance and a range of objectives. Evaluating alternatives and helping District staff select the preferred options requires a rigorous evaluation process that includes discussion of multiple values and criteria that may be impacted by the decision. The exhibit below shows a holistic example of potential evaluation criteria that maybe used to evaluate alternatives based on factors important to the District.

Public Health and Water Quality							Resiliency/Reliability			Community Concerns			Cost Benefit	
Provide drinking water that is safe and consistent							Facility maximizes likelihood of continued water provision, even after a fire or disaster			Integrate community interests in the decision making process			Getting the most benefit for the dollar	
Existing Micro-biological Regulations	Existing Corrosion Control Regulations	Emerging Water Quality Regulations	Aesthetics Goals	Bio-stability	Scale-stability	Chemical Impacts	Earthquake	Catastrophic WQ Event (forest fire, landslide)	Routine WQ Events (elevated turbidity, algae bloom)	Local Impacts	Consistency in Taste and Appearance	Perception of Safety	Cost of Construction	Operating Costs
Log Removal	N/A	Ability to treat CECS	SMCLs	AOC reduction	Consistency of water treatment	Disinfection byproducts formation	Days of recovery	Days of recovery	Online %age	Neighbors impacted	Use of wellfields	Qualitative	Capital Cost \$	Operating \$



**Task 6 – IPR & DPR Feasibility Evaluation (Optional)**

In this task, the feasibility of indirect potable reuse (IPR) and direct potable reuse (DPR) for VSD will be evaluated.

**Task 7 – Grant Administration for WRFP and WaterSMART Grants (Optional)**

Hoch proposes to administer the Water Recycling Funding Program award with the State Water Resources Control Board and the WaterSMART Bureau of Reclamation award. A well-administered grant ensures that the grantee remains in good standing with funding agencies - a pivotal factor often considered in determining future awards. Hoch has a successful track record of post-award compliance activities. When providing post-award support, our first priority is to ensure the project is implemented in compliance with the terms of the grant agreement, which ensures that all stipulated funds are received as anticipated. Tasks performed include contract amendments, progress reporting, invoicing, financial reporting, auditing, final report writing, and project close out activities. We also review the agreement for all legislative and regulatory requirements and work with appropriate staff to ensure compliance as the project is implemented. The following list outlines our efforts:

- Establish a comprehensive administrative schedule, including dates for which deliverables, reports, invoices, and other key submittals must be prepared and submitted to the granting agency.
- Develop a convenient process with the client for requesting and receiving source documentation required to complete reporting and invoicing activities.
- Implement stringent internal quality control protocols and establish protocol for client review, approval, signature (as needed) and submittal of deliverables.

- Access and utilize current official forms, as required by granting agency.
- Establish a master tracking workbook as the primary tool to comprehensively track grant budget, expenditures, project schedule, and deliverables.
- Provide guidance to clients on eligible costs and opportunities to fully utilize grant funds.
- Coordinate with granting agency, client staff, and funding agency to correct any issues that might arise related to reports or invoices.
- Work with granting agency and client to amend grants in a timely manner, as needed.
- Participate in teleconferences and meetings with client, partners, and granting agency related to grant administration, as needed.
- Prepare project closeout and post-project reports that are responsive to granting agency requirements.
- Utilize the preferred method of delivery to submit reports and deliverables to the granting agency.
- Develop a file-share system with the client to systematically upload and download all project documentation throughout the life of the grant. Hoch typically utilizes a file-sharing platform such as SharePoint or DropBox.

Hoch will provide ongoing tracking and accounting of all eligible grant expenses through a master tracking workbook in order to account for required local match and cumulative draw requests. Hoch will also prepare and submit invoice backup documentation packets to the funding agency, as needed.

Deliverables: USBR: Biannual WaterSMART progress reports, SF 424 forms with draw requests for electronic payout (through ASAP system). WRFP: Draft project report, mid-course meeting, Division Form 260 and 261, final project report with reimbursement requests for electronic payout.

**Hoch's Funding Administration Team helped Helix Water District win \$10.3M for the Phase 4-Urban Community Drought Relief Program Awards.**

**“Big thank you to you and your team for helping put together such an excellent application package. We were the only San Diego County applicant to win an award this round! Look forward to working together again. Thank you again for all of your help.”**

*Jennifer Bryant, Helix Water District*

## PROJECT SCHEDULE

Hoch will develop a detailed schedule with key milestones and check-ins (driven by the submittal deadline) that builds in time for the District to review, provide input, and issue final approvals and signatures prior to submittal.

This schedule is constantly monitored to ensure progress is made accordingly, with corrective measures taken and communicated quickly, should delays occur. A preliminary schedule is included below.

TASK	2024												2025				
	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	
Proposal	█																
Contracting	█	█															
Task 1 - Project Kick-Off		★															
Task 1.3 - Data Collection & Review		█	█	█	█	█											
Task 2 - Environmental & Permitting Support			█	█	█	█	█	█	★								
Task 3.1 - Crosswalk Document Preparation												█	█	█			
Task 3.2 - Recycled Water Market Assurances						█	█	█									
Task 4.1 - Secondary WW Characterization TM		█	█	█	█	★											
Task 4.2 - Tertiary Treatment Alternatives Evaluation TM				█	█	█	█	█	█	★							
Task 4.3 - Feasibility Report								█	█	█	█	█	█	★			

## WORKSHOPS

- ★ 1. Project Kickoff
- ★ 2a. Secondary WW Characterization Workshop
- ★ 2b. Tertiary Treatment Alternatives Evaluation Workshop
- ★ 3. Environmental & Permitting Workshop
- ★ 4. Feasibility Report Workshop



*This section shall state: "The undersigned hereby submits its proposal and, by doing so, agrees to furnish services to VSD in accordance with the Request for Proposal (RFP), and to be bound by the terms and conditions of the RFP."*

Hoch Consulting (the undersigned) hereby submits its proposal and, by doing so, agrees to furnish services to VSD in accordance with the Request for Proposal (RFP), and to be bound by the terms and conditions of the RFP.

**DEMONSTRATION OF STAFFING RECORD, COMPLETION ON TIME AND WITHIN BUDGET**

Hoch’s team is highly experienced in providing engineering planning services to local governments and takes great pride in our long-standing and trusted working relationship with our clients. Our company culture and capabilities make it smooth and convenient to work as an extension of the District’s staff. Hoch proposes a team local to Southern California with a wealth of technical experience. Members of our team, led by Aaron Gress, are hard-working and committed, with track records of successful work completed on time and within budget.

Hoch demonstrates a strong record of efficiently staffing tasks, completing projects on time, and staying within the allocated budget through a tried-and-true approach to line-of-communication and team integration. We propose the primary line of communication be between Aaron Gress, the main point of contact from Hoch, and the District’s contract/project manager. As specific funding support efforts are initiated, it may be most effective for Cari Dale to coordinate directly with a designated authority staff person who is focused on the action. Cari will manage her team’s internal work efforts and oversee the coordination of meetings, review processes, and document exchanges with the District. Direct communication and coordination between the Hoch team support staff and Distirct staff will occur when deemed most efficient. As PM, Aaron will actively track the schedule, staff time, and budget to ensure all tasks are on time and within budget.

**COMMUNITY INVOLVEMENT**

Hoch's vision is "to provide value to our clients, our community, and our employees." We take this statement to heart and have adopted an official giveback policy that includes all full-time and part-time employees to participate in a paid volunteer day or activity each year. Hoch employees record upcoming volunteer opportunities and usually agree to participate in the same giveback day activity. Those employees who cannot or choose not to participate in the group giveback day activity can utilize this time to join in another volunteer opportunity.

Past activities have included blood donations, charity drives in partnership with Water for People, participation in Habitat for Humanity construction activities, and civic cleanups to remove polluting litter and debris from the community in partnership with "I Love a Clean San Diego." We typically involve ourselves in the communities where we work. If provided with the opportunity to contract with the Valley Sanitation District, Hoch intends to offer VSD-based volunteer opportunities to our staff. We can coordinate our community involvement with the District staff liaison for the contract if desired.



*Please provide a lump sum, not-to-exceed fee proposal for the Project. The fee proposal shall be broken down by task and further broken down by staff, subconsultant costs, and expenses for each task. The fee proposal shall include hourly rates for all personnel.*

## **BUDGET SUMMARY**

Payment will be made at the Billing rates for personnel working directly on the project, which will be made at the Consultant's Hourly Rates, plus Direct Expenses incurred. Hoch Consulting's rate schedule for this contract provides all-inclusive hourly billing rates, which include overhead, profit, and expenses. Reimbursable expenses, such as mileage and reproduction, will not exceed a 10% mark up. A schedule of Hoch's hourly rates is found on page 46. If selected, the schedule of hourly rates shall remain fixed for the term of the agreement

All work will be performed on a lump-sum, "not-to-exceed" basis for the agreed amount and no additional compensation will be received beyond the total amount negotiated for the scope of work unless changes are approved in advance by a written change order issued and signed by the District and Hoch Consulting. A sealed fee proposal shall be uploaded separately through the Online portal. If the fee proposal cannot be uploaded separately, the fee proposal may also be shared with the District electronically upon request.

**HOURLY RATES**

**RATE SCHEDULE**



**Hoch Consulting**  
 804 Pier View Way, Suite 100  
 Oceanside, CA 92054  
 (tel.) 858-431-9767  
 www.hochconsulting.com

**Hoch Consulting 2024 Rate Schedule**

<u>Title</u>	<u>Billing Rate (\$/hr)</u>
Director of Engineering.....	\$245.00
Principal Engineer.....	\$235.00
Senior Project Engineer.....	\$210.00
Project Engineer.....	\$185.00
Associate Engineer.....	\$165.00
Staff Engineer.....	\$145.00
Senior Project Designer.....	\$165.00
Project Designer.....	\$150.00
Staff Designer/Drafter.....	\$130.00
Drafter.....	\$120.00
Director of Construction Services.....	\$240.00
Principal Construction Manager.....	\$200.00
Senior Construction Manager.....	\$175.00
Construction Manager.....	\$160.00
Staff Construction Manager.....	\$145.00
Senior Construction Inspector.....	\$150.00
Construction Inspector.....	\$140.00
Staff Construction Inspector.....	\$130.00
Director of Water Resources.....	\$240.00
Principal Water Resource Specialist.....	\$235.00
Senior Water Resource Specialist.....	\$190.00
Water Resource Specialist.....	\$170.00
Senior GIS Analyst.....	\$160.00
Environmental Compliance Specialist.....	\$120.00
Senior Scheduler.....	\$135.00
Senior Administrative Assistant.....	\$125.00
Administrative Assistant.....	\$90.00
Ambassador.....	\$195.00



VSD

2024-0118



FEE PROPOSAL FOR

# Recycled Water Project Feasibility Study

February 23, 2024 | 3:00pm



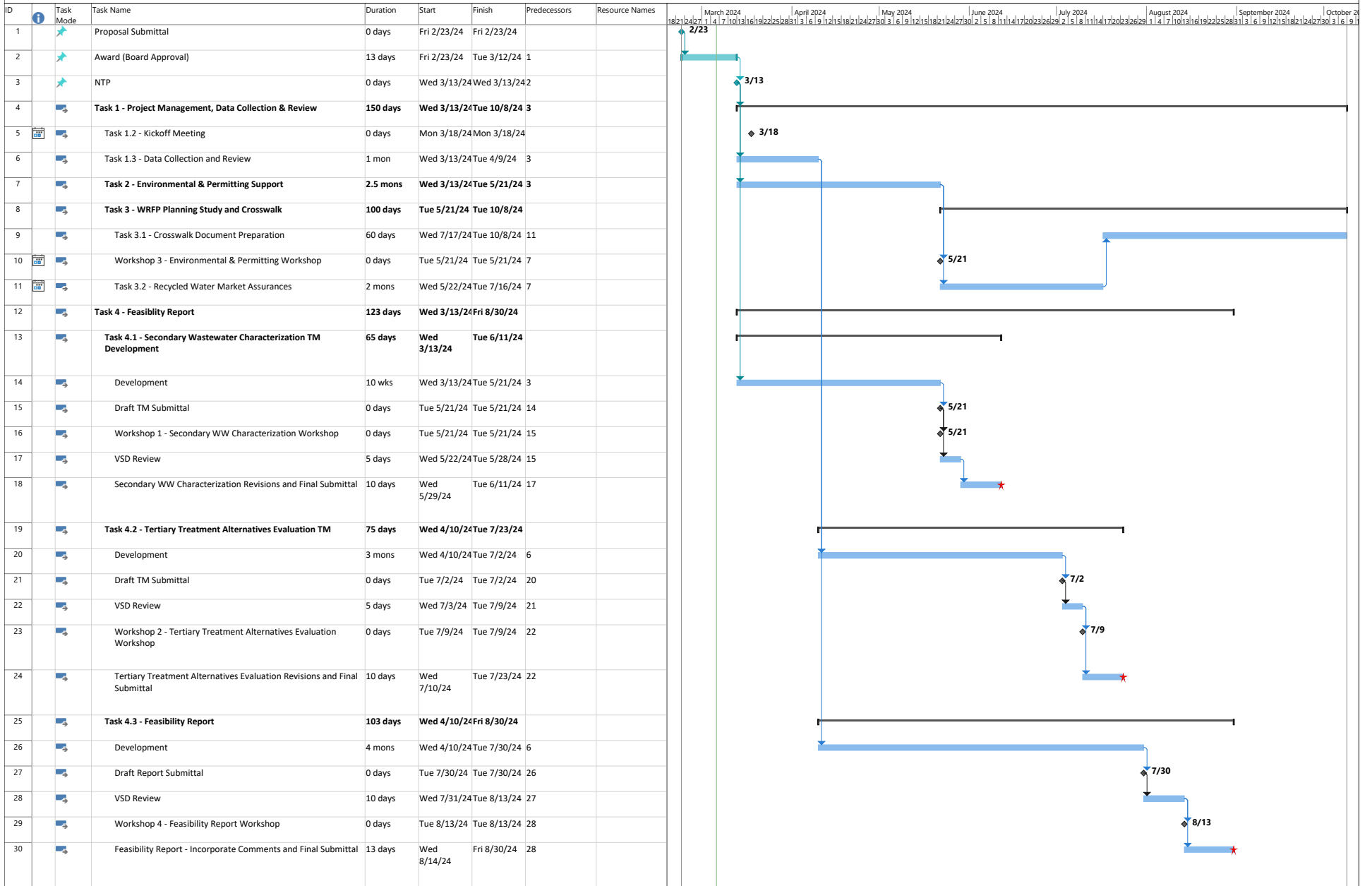
HOCH  
CONSULTING

Classification	Total Hours by Task	Hoch Consulting Labor									Subconsultant Efforts					Direct Costs	Total Fees
		Principal In-Charge (Director of Water Resources)	President/Principal Engineer (Quality Management)	Project Manager (Principal Engineer)	Associate Engineer	Staff Engineer	Senior Project Designer	Principal Water Resources Specialist	Sr. Water Resource Specialist	Total Hoch Consulting Labor	Trussell Technologies : Technical Lead	Helix : Environmental	Total Subconsultant by Task	Subconsultant Markup	Total Subconsultant Effort	Mileage, Reproduction & Postage	Total
		CD	AH	AG	KC	LB	RR	KBR	JG								
Rate (\$/hr)		\$240.00	\$245.00	\$235.00	\$165.00	\$145.00	\$145.00	\$240.00	\$190.00								
<b>Base Proposal</b>																	
1 : Project Management	174	32	12	76	16	30	0	0	8	\$ 36,990.00	\$ 22,910.00	\$ -	\$ 22,910.00	\$ 2,291.00	\$ 25,201.00	\$ 3,000.00	\$ 65,191.00
1.01 : Invoice Status Reports	32	8		24						\$ 7,560.00	\$ 5,720.00	\$ -	\$ 5,720.00	\$ 572.00	\$ 6,292.00	\$ -	\$ 13,852.00
1.02 : Management, Coordination, and Meetings	94	16	12	40	8	10			8	\$ 20,470.00	\$ 17,190.00	\$ -	\$ 17,190.00	\$ 1,719.00	\$ 18,909.00	\$ 3,000.00	\$ 42,379.00
1.03 : Data Collection and Review	48	8		12	8	20				\$ 8,960.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,960.00
2 : Environmental & Permitting Support	112	24	0	12	16	8	0	16	36	\$ 23,060.00	\$ -	\$ 19,835.00	\$ 19,835.00	\$ 1,983.50	\$ 21,818.50	\$ -	\$ 44,878.50
2.01 : Environmental & Permitting Support	112	24		12	16	8		16	36	\$ 23,060.00	\$ -	\$ 19,835.00	\$ 19,835.00	\$ 1,983.50	\$ 21,818.50	\$ -	\$ 44,878.50
3 : WRF Planning Study and Crosswalk	108	22	0	4	16	20	0	0	46	\$ 20,500.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 20,500.00
3.01 : Crosswalk Document Preparation	68	10		4	16	16			22	\$ 12,480.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,480.00
3.02 : Recycled Water Market Assurances	40	12				4			24	\$ 8,020.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,020.00
4 : Feasibility Report	690	84	16	134	96	104	96	30	130	\$ 132,310.00	\$ 113,760.00	\$ -	\$ 113,760.00	\$ 11,376.00	\$ 125,136.00	\$ 400.00	\$ 257,846.00
4.01 : Secondary Wastewater Characterization TM	40		2	12	6	12	8			\$ 7,200.00	\$ 25,680.00	\$ -	\$ 25,680.00	\$ 2,568.00	\$ 28,248.00	\$ -	\$ 35,448.00
4.02 : Tertiary Treatment Alternatives Evaluation TM	44		2	12	10	12	8			\$ 7,860.00	\$ 88,080.00	\$ -	\$ 88,080.00	\$ 8,808.00	\$ 96,888.00	\$ -	\$ 104,748.00
4.03 : Feasibility Report	606	84	12	110	80	80	80	30	130	\$ 117,250.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 400.00	\$ 117,650.00
<b>Total Base Proposal</b>	<b>1084</b>	<b>162</b>	<b>28</b>	<b>226</b>	<b>144</b>	<b>162</b>	<b>96</b>	<b>46</b>	<b>220</b>	<b>\$ 212,860.00</b>	<b>\$ 136,670.00</b>	<b>\$ 19,835.00</b>	<b>\$ 156,505.00</b>	<b>\$ 15,650.50</b>	<b>\$ 172,155.50</b>	<b>\$ 3,400.00</b>	<b>\$ 388,415.50</b>





Client: Valley Sanitation District  
 Project: Recycled Water Feasibility Project



Project: 240010\_VSD Recycled Water Feasibility Project  
 Date: Wed 3/6/24

Task	Summary	Inactive Milestone	Duration-only	Start-only	External Milestone	Manual Progress
Split	Project Summary	Inactive Summary	Manual Summary Rollup	Finish-only	Deadline	
Milestone	Inactive Task	Manual Task	Manual Summary	External Tasks	Progress	





## Valley Sanitary District

**DATE:** March 12, 2024  
**TO:** Board of Directors  
**FROM:** Jason Dafforn, General Manager  
**SUBJECT:** REVIEW BOARD MEMBER CANDIDATE APPLICATIONS, CONDUCT INTERVIEWS OF APPLICANTS, AND APPOINT A NEW BOARD MEMBER TO REPRESENT WARD A

---

### **Suggested Action**

Approve

### **Strategic Plan Compliance**

GOAL 6: Improve Planning, Administration and Governance

### **Fiscal Impact**

There is no fiscal impact from this report.

### **Environmental Review**

This item does not qualify as a project as defined by the California Environmental Quality Act (CEQA).

### **Background**

Due to the resignation of Board Member for Ward A in January 2024, the District solicited for candidates to fill the vacancy. The District received 3 applications by the posted deadline. Staff has reviewed the applications and will present all three to the Board for consideration.

### **Recommendation**

Appoint a new Board Member to represent Ward A.



## Valley Sanitary District

**DATE:** March 12, 2024  
**TO:** Board of Directors  
**FROM:** Jason Dafforn, General Manager  
**SUBJECT:** RECEIVE MONTHLY GENERAL MANAGERS REPORT FOR FEBRUARY 2024

---

### **Suggested Action**

Review

### **Strategic Plan Compliance**

GOAL 6: Improve Planning, Administration and Governance

### **Fiscal Impact**

There is no fiscal impact from this report.

### **Environmental Review**

This is not a project as defined by the California Environmental Quality Act (CEQA).

### **Background**

The following data represents the activities and metrics for the month of February 2024.

#### *Administrative Services*

- The fiscal year 2024/25 budget preparation process continues. The Chief Administrative Officer is reviewing Operating & Maintenance (O&M) budget requests, department summaries, and department goals. A special budget workshop is scheduled for April 16, 2024.
- Commenced the fiscal year 2024/25 budget book design concepts.
- Held one (1) Operations Committee.
- Held one (1) Special Board Meeting.
- Prepared Form 700s.
- Conducted a Coachella Valley History Museum tour.
- Held an open house tour for the vacant Board Member position.
- Conducted school tour with Indio High School.

- Onboarded Collection Systems Technician in Training

### *Environmental Compliance Services*

- Michael Placencia attended CWEA P3S (pretreatment) conference in Anaheim, CA from Feb 4<sup>th</sup> thru 7<sup>th</sup> – participated as attendee, presenter, and host speaker.
- 02/21 – Indio High School Tour Event – Sessions: Microbiology Methods, Biological Methods & Chemistry Methods.
- 02/26 – Orientation session for new Collections Team Member

### *Operations & Maintenance*

- Assisted with design build project.
- Drained Extended Aeration Basin 4 to pressure wash diffusers and do maintenance service on internal recycle pump for basin No. 4.
- Drained Extended Basin 1 to pressure wash diffusers and do maintenance service on internal recycle pump for basin No. 1.
- Switched to North Activated Sludge Plant Chlorine Contact Chamber
- Tour for Indio High School students.
- CIP project at Belt Press #1 roller change out complete.
- CIP Project Blower LCP, PLC changed out on 3 panels on the Blowers.
- Digester Gas Boiler servo replaced.
- Leak at boiler compressor repaired.
- RAS pump #2 repaired and installed.
- Front Gate #3 traffic loop repaired.
- Amiad Filter on the Plant Water line repaired.
- Bar Screen # 2 repaired.
- Shelves installed in Connex box.
- Prepared Demonstrations and tour for Indio High School students.
- Bird Center Window replaced and wall sheeting repaired.
- Serviced Hot Water System for Digester Boiler.
- Helped Walsh Contractors with draining WAS line.
- Helped Walsh Contractors repair 4" water line hit during excavation at Head Works.
- Worked Budget Pricing for Maintenance & CIP.

### *Development Services*

- Construction on Phase 1 and 2 of the public sewer for the CoCo Palm Housing Project on Avenue 49 and Jackson Street will begin soon.
- Construction has begun on the new Pacific Indio Retail Center on the Southeast corner of Monroe Street and Avenue 42. The project will include multiple retain lots. Raising Cane's Chicken and In-N-Out Burger are planned to build at this project.
- Construction has begun on Gabino's Creperie near the corner of Miles Avenue and Towne Street.



- Construction has begun on the Tower Market convenience store and gas station on the northwest corner of Dr. Carreon and Monroe Street.
- Construction has begun on the Indio Taphouse on the southwest corner of Miles Avenue and Towne Street.

### *Collection Services*

- No-Spill report for the month of February will be submitted to the California Integrated Water Quality System, as required in the Waste Discharge Requirements Monitoring and Reporting Program. Due by the end of the month.
- Working on completing the Collection System Annual report to be submitted by April 1st, under the newly adapted Statewide Sanitary Sewer Systems General Order requirements, to be submitted in the California Integrated Water Quality System.
- Monthly preventative maintenance service of lift stations is scheduled for the month.
- CCTV inspections are currently being conducted in the area of Avenue 48 and Calle Conejo.
- Field Vector crew is currently working in the area of Van Buren and Avenue 45.

### *Capital Improvement Program*

- The Reclaimed Water Project - Phase 1 was awarded to Schneider Electric / Stantec in June 2020. This project will replace an aging and capacity restricting grit chamber and provide redundancy by adding a second digester and expanding the bar screens. This project will also include replacement of the Main Switch Control Panel and the addition of a sludge thickener unit. Update: Walsh is currently working on pouring concrete for the duct banks and ferric chloride pad for the new grit chamber and continuing preparations for the steel wire wrapping and spraying shotcrete on the new digester.
- The Westward Ho Drive Sewer Siphon Replacement Project is a FEMA funded project to replace the damaged sewer siphon from the February 2019 storm. Permitted plans have been signed by CVWD and have been approved by the City of Indio and La Quinta. CEQA documentation for this project has been completed. This project is currently being held up by FEMA. VSD needs FEMA approval before proceeding with bidding and construction which was expected by February 2023. Update: VSD has been in communication with FEMA and CalOES which has led to FEMA nearing completion of their environmental review. Project approval and the ability to go out to bid is in the near future.
- The Downtown Indio Rehabilitation Project is currently under construction and covers the rehabilitation of existing sewer mains and manholes in a portion of the downtown area, the upsizing of two existing sewer mains between Grace and Salton Street, several point repairs, and the installation of new public sewer in the Indio Motor Machine property. The project was awarded to GRBCON Inc. Update: The contractor has completed all the rehabilitation, sewer construction, and final paving. Only punch list items related to the CIPP lining remain.
- The Calhoun Lift Station Improvement Project is currently in design and will address issues with the Calhoun Lift Station observed during the lift station evaluation project from last fiscal year. They will address the bubbling wet well lining, aging discharge piping, and deficient electrical equipment. Update: Harris has completed and provided 95% plans and specifications. VSD is currently reviewing the plans and specification for any final revisions.
- *The Southeast Indio Sewer Improvement Project is currently in design and will include the rehabilitation of existing sewer mains and manholes in a portion of the downtown area and the realignment of a sewer main located in the backyards of residences between Marshall and Grace*

*Street. Update: VSD staff have reviewed the 65% plans and have sent back comments for incorporation*

**Recommendation**

Staff recommends that the Board receive the General Manager’s Report for activities during the month of February 2024.

**Attachments**

[Attachment A Admin Services Report.pdf](#)

[Attachment B NPDES Report for January 2024.pdf](#)

[Attachment C Collection Services Report 2024.pdf](#)

[Attachment D Development Services Report February 2024.pdf](#)

[Attachment E Capital Improvement Program Report March 2024.pdf](#)

[Attachment F Environmental Compliance Summary.pdf](#)

[Attachment G Wastewater Surveillance Newsletter\\_Feb 2024.pdf](#)

**Administrative Services - Task Summary 2024**

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total To Date
Active Litigation Filed	-	-											-
Board Meeting	3	1											4
Budget/Finance Committee Meeting	1	-											1
Operations Committee Meeting	-	1											1
Commuity Engagement Committee Meeting	1	-											1
Employee Anniversaries	1	4											5
Employee Promotions	-	-											-
Facebook Postings	7	4											11
Instagram Postings	8	3											11
Insurance Claims Initiated	-	-											-
Lost Time Work Incidents	-	-											-
Media Coverage Items	-	-											-
New Hires	-	1											1
Press Release	-	-											-
Public Records Request	2	2											4
Resignations	-	-											-
Retirements	-	-											-

January 2024	Plant Influent		ASP Effluent		Pond Effluent			Total Plant Discharge (Outfall) Grab									
	CBOD (mg/L)	TSS (mg/L)	Monthly Average Flow (MGD)	CBOD (mg/L)	TSS (mg/L)	Monthly Average Pond Effluent Flow (MGD)	CBOD	TSS	EColi (MPN/100ml)	Oil and Grease (mg/L)	Copper (ug/L)	Di(2-ethylhexyl)phthalate (ug/L)	Cyanide (total) (ug/L)	Ammonia (total, as N) (mg/L)	Nitrate (as N) (mg/L)	Nitrite (as N) (mg/L)	Total Nitrogen (mg/L)
1									8.60	< 1.40	1.90	< 0.500		14.0	1.40	0.150	17.0
2													< 0.00430				
3																	
4																	
5	396	508		6.50	3.70												
6																	
7																	
8																	
9									6.30								
10																	
11	296	234		6.60	4.80												
12																	
13																	
14																	
15																	
16									5.20								
17	264	220		6.30	4.70												
18																	
19																	
20																	
21																	
22									2.00								
23																	
24																	
25	261	182		6.90	3.50												
26																	
27																	
28																	
29																	
30									2.00								
31			5.91			0.000											
<b>Average</b>	304	286	5.91	6.58	4.18	0.000			4.08*	1.40	1.90	0.500	0.00430	14.0	1.40	0.150	17.0
<b>Minimum</b>	261	182	5.91	6.30	3.50	0.000			2.00	< 1.40	1.90	< 0.500	< 0.00430	14.0	1.40	0.150	17.0
<b>Maximum</b>	396	508	5.91	6.90	4.80	0.000			8.60	< 1.40	1.90	< 0.500	< 0.00430	14.0	1.40	0.150	17.0
<b>Exceedences</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Permit LIMITS</b>				25	30		40.0	49.0	126(mo) / 400 (max)	25	9.0	5.9	4.3				

## Collection Services Task Summary Report for 2024

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total To Date
Customer Service Calls	3	3											6
F.O.G. Inspection - Completed													-
F.O.G. Inspection - Fail													-
F.O.G. Inspection - Pass													-
Hot spot cleaning (total)*	26	-											26
Lift station inspection	19	19											38
Manhole inspection	47	102											149
Sewer line CCTV (feet)	8,475	5,628											14,103
Sewer line cleaning (feet)	30,105	31,578											61,683
SSO Response - Cat 1	0	0	0	0	0	0	0	0	0	0	0	0	0
SSO Response - Cat 2	0	0	0	0	0	0	0	0	0	0	0	0	0
SSO Response - Cat 3	0	0	0	0	0	0	0	0	0	0	0	0	0
SSO Response - Cat 4	0	0	0	0	0	0	0	0	0	0	0	0	0
USA Markings	115	50											165
*Note: Hot spot cleaning is performed quarterly													





## VALLEY SANITARY DISTRICT DEVELOPMENT SERVICES REPORT

**12-Mar-24**

Plan Check in Progress  
Inspection in Progress  
New Project

PROJECT NAME	STREET ADDRESS / CROSS STREET	CURRENT PROJECT STATUS	NEXT ACTION ITEM
83041 Indio Blvd Brown Jug G.I.	83041 Indio Blvd	Plans submitted and deposit paid for G.I. installation for future tenant use. Plans approved. Notified applicant project ready to permit 2/2/24.	Inspect work improvements as scheduled.
Add'l Dwelling Unit - Cebreros Residence	83181 Blue Mountain Court	Plans submitted for additional dwelling unit. Plans approved and notified applicant 3/3/21. Permit 3967 7/26/2021	Inspect work improvements as scheduled.
Arroyo Crossing Phase 1 architectural plans	47555 Jefferson Street/Highway 111	Architectural plans submitted for new apartment complex. Plans approved and notified applicant 12/22/21. Permit 3998 issued 1/6/22.	Inspect work improvements as scheduled.
Arroyo Crossing Phase 1 civil plans	47555 Jefferson Street/Highway 111	Civil plans submitted for new apartment complex. Plan review completed. Plans approved and returned to applicant 12/22/21. Permit 3998	Inspect work improvements as scheduled.
Arroyo Crossing Phase 2 architectural plans	47777 Jefferson Street/Highway 111	Architectural plans submitted for new apartment complex. Plans approved and notified applicant 1/21/22 Permit 4005 on 2/7/22.	Inspect work improvements as scheduled.
Arroyo Crossing Phase 2 civil plans	47777 Jefferson Street/Highway 111	Civil plans submitted for new apartment complex. Plans approved and notified applicant 1/21/22. Permit 1005	Inspect work improvements as scheduled.
Autozone Jackson Street	41850 Jackson Street/aAvenue 42	Plans submitted for plan check. Sewer main relocation. Plans approved 1/21/21. Waiting for engineer to finalize easements docs. Permit 3954 issued 5/13/21.	10% warranty bond in place Reinspect and notice of acceptance Due 1/1/2023
Ave 42 Self Storage	82815 Ave 42/Showcase Blvd	Plans submitted, fee paid. Plans approved and notified applicant 3/2/23. Permit 4110 5/24/2023	Inspect work improvements as scheduled.
Bliss & Oasis Apts Sewer Improv. Plan	NW Corner of Bliss Ave and Oasis St	Plans submitted for Civil Plans, fee paid with check. Completed 1st plan check and returned to the applicant 12/15/22.	Perform 2nd plan check upon plan resubmittal.
Buzzbox	42625 Jackson Street #112	Plans submitted existing building TI. Completed 1st plan check and returned to the City 2/22/19.	Perform 2nd plan check upon plan resubmittal.
Castro 80501 lot 50	Motorcoach CC 80501 Ave 48 Lot 50	Plans submitted, Permit 4056	Inspect work improvements as scheduled.
Chandi Plaza Building "B" Shell	81-971 Indio Blvd/Avenue 44	Plans submitted for plan check. Completed 1st check and returned to the applicant 10/13/20. Issued permit 3963 on 6/29/21.	Inspect work improvements as scheduled.
Chick-fil-A	NEC of Jackson St and Ave 42	Plans submitted and deposit paid for a fast food restaurant	Plans In Queue
City Hall and Public Library Project	100/200 Civic Center Drive	Plans submitted and plan fee paid. Completed 1st plan check and notified applicant 9/29/23.	Plans In Queue
Coco Palms Tract 38072-2	South East Corner of Avenue 49 and Jackson St	Plans submitted and plan check fee paid for phase 2 of housing tract. Lateral Resubmission for 38072-1/38072-2 were picked up	Waiting for owner to submit Bonds and Development agreement paperwork.
Coco Palms Tract 38072-3	South East Corner of Avenue 49 and Jackson St	Plans submitted for phase 3 of Coco Palms. Plan Check Fee Paid. Plans were resubmitted for 2nd Plan Check.	Perform 2nd plan check upon plan resubmittal.
COD Child Development Center	45742 Oasis Street	Plans submitted for child development center. Plans approved and notified applicant 1/25/22. Permit 4025 4/21/22	Inspect work improvements as scheduled.
College of the Desert	45524 Oasis Street	Plans submitted for campus expansion. Plan review completed, plan approved and notified applicant 1/25/22. Permit 4026 4/22/22	Inspect work improvements as scheduled.
Dollar Tree #39612	44105 Jackson St Ste 100	Plans submitted and deposit paid for Dollar Tree. Completed 1st plan check and returned to applicant 1/24/24.	Perform 2nd plan check upon plan resubmittal.
EOS Fitness Hwy 111	Highway/Jefferson Street	Plans submitted for construction of new gym facility. Plans approved and notified applicant 4/27/20. Permit 4049 7/11/18. Completed 2nd plan check and returned plans to the engineer 8/9/18. Plans approved and returned to engineer 8/27/18. Sewer Finaled 5/12/20.	Waiting for Development Agreement and Bonds before owner can process permit paperwork.
Gabino's Creperie	82862 Miles Ave	Plans submitted, fee paid with credit card. Completed 2nd plan check and returned to the applicant 6/28/23. Permit #4120 on 08/09/23	Inspect work improvements as scheduled.
Gallery at Indian Springs	Jefferson St/Westward Ho Drive	Tract is Complete. Warranty Bond received 8/25/2021.	Notice of acceptance after 12 month warranty bond release.
Hampton Inn Sewer Main Extension	North West Corner of Spectrum St and Atlantic Ave	Plans submitted for the extension of a public sewer main for Hampton Inn at Atlantic Ave. Plan check fees paid 7/11/18. Completed 2nd plan check and returned plans to the engineer 8/9/18. Plans approved and returned to engineer 8/27/18. Sewer Finaled 5/12/20.	Waiting for owner to submit Warranty Bond
Homes 2 Suites Architectural Plans	80653 Hwy 111	Plans submitted for Hotel Homes2Suites. 2nd Plan Check In queue 10/30/23	Plans In Queue
Homes 2 Suites Sewer Improvement Plan	80653 Hwy 111	Plans submitted for Sewer Improvement Plans, plan check fee paid. Plans ready for pick up. MSA - Marco emailed that plans should be sent out this week 02/05/24	Perform 3rd plan check upon plan resubmittal.
I-10 Monroe Conceptual Site Plans	SE Corner of Monroe and Ave 42	The Palms at Indio Sewer Plans submitted (Fee paid 8/19/22) Approved 6/8/23	Waiting for owner to submit Bonds and Development agreement paperwork.
I-10 Monroe Conceptual Site Plans Pt. 2	SE Corner of Monroe and Ave 42	Plans Submitted and fee paid for Sewer Development. Approved 6/8/23	Waiting for owner to submit Bonds and Development agreement paperwork.

PROJECT NAME	STREET ADDRESS / CROSS STREET	CURRENT PROJECT STATUS	NEXT ACTION ITEM
Indian Palms 32	Cochran Drive & Garland Road	Civil plans submitted for public sewer for 32 unit condo complex. 2nd plan check complete. 9/1/21. Plans approved 9/17/21.	10% warranty bond in place Reinspect and notice of acceptance Due 10/1/2024
Indian Palms Interval Pool Cabana Remodel	82954 Stewart Dr	Plans submitted and deposit paid for pool cabana remodel. Completed 1st plan check and returned to applicant 1/16/24.	Perform 2nd plan check upon plan resubmittal.
Indio Behavioral Health Hospital	81655 JFK Court	Civil plans submitted for new mental health facility. Completed 1st plan check and returned to the engineer 12/2/19. Plans approved 6/24/20. Issued permit 3900 on 8/29/20.	Inspect work improvements as scheduled.
Indio Brewery And Restaurant	82921 Indio Blvd	Plans submitted and deposit paid for a Brewery and Restaurant. Completed 1st plan check and returned to the applicant 2/6/24.	Perform 2nd plan check upon plan resubmittal.
Indio Juvenile Court	47671 Oasis St/ Ave 48	Plans submitted to demo existing juvenile court building and construct new building on the same site. Plans approved, notified applicant project ready to permit 9/30/21. Permit # 4004 1/25/22	Inspect work improvements as scheduled.
Indio Marketplace Architectural	82227 Highway 111/Rubidoux	Plans submitted for mall TI. Completed 2nd check and notified applicant 8/2/22.	Waiting for owner to process permit paperwork.
Indio Marketplace Civil	82227 Highway 111/Rubidoux	Plans submitted for mall TI, Completed second plan check and returned to the applicant 11/12/21.	Waiting for owner to process permit paperwork.
Indio Plaza Sewer Relocation	82126 Hwy 111/Monroe St.	Plans submitted for sewer line and manhole relocation. Plans approved and notified applicant 7/28/22.	Waiting for owner to process permit paperwork.
Indio Public Safety Center	46867 Bristol Street/Dr Carreon	Plans submitted for public safety center. Plans approved and returned to applicant 4/12/22. Permit 4052	Inspect work improvements as scheduled.
Indio Self Storage	81161 Indio Blvd	Plans submitted and fee paid for sewer improvement plans. Completed 3rd plan check and returned to the applicant 8/24/23.	Plans In Queue
Indio Sports Park	82600 Market St	Plans submitted for a sports park with concession stand. Emailed Deborah from Webb Associates that plans ar ready for pickup	Perform 4th plan check upon plan resubmittal.
Indio Towne Center Sewer Improvement Plan	42270 & 42290 Jackson St	Plans Submitted for Indio Towne Center sewer improvement plan.	Plans In Queue
Jersey Mike's	42211 Jackson St Ste. 102 / Corner of Ave 42	Plans Submitted and fee paid for Sandwich Restaurant. Plans approved and notified applicant 2/17/23. Permit 4088	Inspect work improvements as scheduled.
JFM Senior Villas	83801 / 83285 Dr Carreon	Plans Submitted for Senior Villa Apts, plan check deposit paid. Adriana from MSA will resend plans that just arrived	Perform 2nd plan check upon plan resubmittal.
JFM Senior Villas Architectural	83801 / 83285 Dr Carreon	Plans Submitted for Senior Villa Apts, plan check deposit paid.	Plans In Queue
John Nobles Apts civil plans	John Nobles Avenue/Rubidoux Street	Plans submitted for on-site private sewer. Completed 1st plan check and returned to applicant 7/12/22.	Perform 2nd plan check upon plan resubmittal.
Jones Residence	49131 Ridgeback Ct	Plans submitted for single family residence, plan check fee paid. Plans approved. Notified applicant proejct ready to permit 2/2/24.	Inspect work improvements as scheduled.
Kings Castle Taco Architectural	82991 Bliss Avenue	Plans submitted for building TI for taco shop. Completed 2nd plan check. Civil plans submitted for review 7/21/22.	Waiting for owner to process permit paperwork.
Kings Castle Taco Civil Plans	82991 Bliss Avenue	Plans submitted for building TI for taco shop 7/21/22. Plans approved and notified the applicant 9/7/22.	Waiting for owner to process permit paperwork.
Las Plumas/Coco Palm Tract 38072-1	South East Corner of Avenue 49 and Jackson St	Plans submitted for 173 lot housing tract. Completed first plan check 4/27/21.	Waiting for owner to submit Bonds and Development agreement paperwork.
Magical Estates Tenant Spaces	82490 Highway 111/Arabia Street	Plans submitted for tenant suite TI's. Completed 1st plan check and returned to applicant 4/28/22.	Perform 2nd plan check upon plan resubmittal.
Motorcoach CC Lot 119	Motorcoach CC 80501 Ave 48 Lot 119	Plans submitted for casita/shade structure. Plans approved. Permit 4115 7/20/23	Inspect work improvements as scheduled.
Nelson Chavez Accessory Dwelling Unit	43163 Deglet Noor	Plan submitted for new accessory dwelling unit, Plan approved and notified applicant 8/30/22 Permit 4113 7/5/23	Inspect work improvements as scheduled.
Outdoor Resorts CC - Casita Addition	80394 Avenue 48, Lot 182	Plans submitted for casita addition and storage building. Plans approved and notified applicant 9/30/21	Waiting for owner to process permit paperwork.
Outdoor Resorts Lot 307	80394 Ave 48 Lot 307	Plans submitted for casita addition and outdoor BBQ. Permit 4112	Inspect work improvements as scheduled.
Palmera Apartments Civil	NE Corner of Monroe and Requa	Plans submitted for Sewer Developmet, fee paid. Completed 2nd plan check and returned to the applicant 3/9/23	Perform 3rd plan check upon plan resubmittal.
Palmera Project Arc	Requa Ave West of Monroe PM 38493	Plans Submitted for Apt Homes with Clubhouse. Completed 1st plan check and returned to the applicant 9/11/23.	Perform 2nd plan check upon plan resubmittal.
Paradiso Tract 31815	East of Monroe North of Ave 41	New model homes under construction. Warranty Bond received 3/2/2023.	Notice of acceptance after 12 month warranty bond release.
Paradiso Tract 31815 & 31815-3	East of Monroe North of Ave 41	Plans submitted for new housing tract phases. Completed first plan check 2/25/21. Plans Approved 3/25/21.	10% warranty bond in place Reinspect and notice of acceptance Due 3/1/2024
Parcel Map 36215	Dr. Carreon west of Van Buren	Civil plans submitted for 1st plan check. Plans approved and returned to the Engineer 1/18/18. Issued permit 3718 on 1/23/18. Finald 1/3/24	No further action required.
Pawley Pool Aquatic Facility	46350 Jackson Street/Date Ave.	Plans submitted for new Aquatic Center on existing public pool site. Project Expired in 2020. Resbmitted 10/25/21. Plans approved and notified applicant 10/12/23. Permit #4131 11/06/23	Inspect work improvements as scheduled.

PROJECT NAME	STREET ADDRESS / CROSS STREET	CURRENT PROJECT STATUS	NEXT ACTION ITEM
Private residence for Cristina Ayon	49115 Ridgeback Ct	Plans submitted, fee paid. Plans approved and notified applicant project ready to permit 12/22/22. Permit 4071 1/12/23	Inspect work improvements as scheduled.
Raising Canes Restaurant	Monroe Street/Showcase Parkway	Plans submitted for new restaurant building. Plans approved and notified the applicant 12/6/22.	Waiting for owner to process permit paperwork.
Ramon Chavez Accessory Dwelling Unit	43737 Oasis St / Ave 44	Plans submitted for plan check. Plans approved and notified applicant 10/13/20. Issued permit 3908 on 10/13/20.	Inspect work improvements as scheduled.
Ranch RV & self Storage	83734 Dr Carreon	Plans submitted, fee paid with check. Completed 2nd plan check and notified applicant 12/14/22. Permit 4090 2/28/2023	Inspect work improvements as scheduled.
Residence for Mr and Mrs Job Lopez	49-134 Ridgeback Ct	Plans Submitted and fee paid for private residence. Plans approved and notified applicant 3/16/23. Permit 4093	Inspect work improvements as scheduled.
Ridgeback Ct Family Residence	49128 Ridgeback Ct	Plans submitted for single family residence, plan check fee paid. Plans approved. Permit 4114 7/20/23	Inspect work improvements as scheduled.
Robert Henry Bootsma Casita	80469 Jasper Park Ave	Plans submitted for a detached Casita, Plan Check Deposit paid. Permit paid #4132	Inspect work improvements as scheduled.
Rolled Ice Shop	45127 Towne St #B	Plans submitted and deposit paid for Rolled Ice Cream T.I. Completed 1st plan check and notified applicant 1/4/24.	Perform 2nd plan check upon plan resubmittal.
Rosa Rebolgar Accessory Dwelling Unit	81179 Helen Ave/Swingle Ave	Plan submitted for new accessory dwelling unit. Project built, notified applicant project ready to permit 6/22/23.	Waiting for owner to process permit paperwork.
Salad and Go	82051 Ave 42	Plans submitted for a Restaurant. Completed 1st plan check and notified applicant 10/27/23.	Plans In Queue
Saphire Apartments	45733 Oasis St	Plans submitted for 30 unit Mixed-Use Apartment Complex, Plan Check Deposit paid	Plans In Queue
Starbucks Oasis and Hwy 111	82710 Hwy 111	Plans submitted and deposit paid for a Drive-thru coffee shop	Plans In Queue
Tarra Lago 32341-12	North of Avenue 44 & East of Harrison	First Plan Complete 12/16/20. Plans Approved 2/19/21.Maintenance Bond in place 8/16/22.	10% warrenty bond in place Reinspect and notice of acceptance Due 8/16/2023
Terra Lago Four Seasons Tract 32287	North of Avenue 44 & East of Harrison	Civil plans submitted for plan check. Plans Approved 4/26/21. Civil plans submitted for Public Sewer. 1st plan check complete and returned redlines 11/24/21 2nd plan check complete 1/18/22.	10% warrenty bond in place Reinspect and notice of acceptance Due 8/1/2024
Terra Lago Four Seasons Tract 32288-1	North of Via Terra Lago and East of Golf Center	Civil plans submitted for Public Sewer. 1st plan check complete and returned redlines 3/29/22 Approved 7/1/23	Inspect work improvements as scheduled.
Terra Lago Four Seasons Tract 32288-F	North of Via Terra Lago and East of Golf Center	Civil plans submitted for Public Sewer. Plans Approved 7/1/22	Inspect work improvements as scheduled.
Terra Lago Four Seasons Tract 32341-F	North of Avenue 44 & East of Harrison	Civil plans submitted for plan check. Completed 1st plan check and notified applicant 5/1/20. Plans Approved 8/15/20.Maintenance Bond in place 8/16/22	Inspect work improvements as scheduled.
Terra Lago Four Seasons Tract 32462-2	North of Avenue 44 & East of Harrison	Plans approved from previous developer. Development agreement has been recorded. Bonds have been submitted. Construction work is in progress.	Inspect work improvements as scheduled.
Tim & Lois Eklund Site 105	Motorcoach CC 80501 Ave 48 Lot 105	Plans submitted, Permit 4068	Inspect work improvements as scheduled.
Tower Market #965	Intersection Monroe Street/Dr Carreon	Plans submitted for Convienient Store/Gas Station, fee paid with check. Plans approved nd notified applicant project ready to permit 6/5/23. Permit 4111 6/9/2023	Inspect work improvements as scheduled.
Tower Market #965 Architectural	Intersection Monroe Street/Dr Carreon	Plans Submitted and fee paid for architectural plans for a gas station. Plans approved and notified applicant project ready to permit 6/5/23. Permit 4111 6/9/2023	Inspect work improvements as scheduled.
West Coast Self Storage	NE Corner of Van Buren and Dr Carreon	Plans submitted for Self Storage, plan check deposit paid. Completed 1st plan check and notified applicant 12/14/23.	Plans In Queue
Woodsprings Suites Ext Stay Hotel	42-425 Jackson St.	Civil plans submitted for Public Sewer & Plan Fee Paid. Plans approved 2/14/23 and notified applicant. Fees Paid and Permit Issued #4138	Waiting for owner to process permit paperwork.
	<b>February</b>	<b>Fiscal Year</b>	
New Projects	1	18	
Projects Permitted	1	6	
Projects Finaled		15	

**Monthly Capital Improvement Project Update - March 2024**

<b>Project Title</b>	<b>Project Description</b>	<b>Current Status</b>	<b>Fiscal Year Budget</b>	<b>Total Spent to Date</b>
Reclaimed Water Project Phase 1	The contract for this project was awarded to Schneider Electric / Stantec. The project design cost was \$2,200,000 and the project schedule was approximately 460 days. The Reclaimed Water Project – Phase 1 will replace an aging and capacity restricting grit chamber and provide redundancy by adding a second digester and expanding the bar screens. This project will also include adding a biofilter and a sludge thickener unit. The Guaranteed Maximum Price (GMP) has been approved by the Board. 100% design plans have been approved by staff.	Walsh is currently working on pouring concrete for the duct banks and ferric chloride pad for the new grit chamber and continuing preparations for the steel wire wrapping and spraying shotcrete on the new digester.	\$39,900,000.00	\$19,867,638.41
Collections System Rehabilitation Design Projects	There are currently two projects in the design phase for the Collections System Rehabilitation program. The first is the Calhoun Lift Station Improvement Project which will address issues with the Calhoun Lift Station observed during the lift station evaluation project from last fiscal year. They will address the bubbling wet well lining, aging discharge piping, and deficient electrical equipment. The second project is the Southeast Indio Sewer Improvement Project which will include the rehabilitation of existing sewer mains and manholes in another portion of the downtown area and the realignment of a sewer main located in the backyards of residences between Marshall and Grace Street.	Harris has completed and provided 95% plans and specifications for the Calhoun Lift Station rehabilitation project. VSD is currently reviewing the plans and specifications for any final revisions. VSD staff have reviewed the 65% plans and have sent back comments for the next downtown rehab project.	\$400,000.00	\$316,607.75
Downtown Indio Rehabilitation Project	The Downtown Indio Rehabilitation Project is currently under construction and covers the rehabilitation of existing sewer mains and manholes in a portion of the downtown area, the upsizing of two existing sewer mains between Grace and Salton Street, several point repairs, and the installation of new public sewer in the Indio Motor Machine property. The project was awarded to GRBCON Inc.	The contractor has completed all the rehabilitation, sewer construction, and final paving. Only punch list items related to the CIPP lining remain.	\$2,200,000.00	\$1,869,735.22
Westward Ho Sewer Siphon Replacement Design and Construction	The Westward Ho Drive Sewer Siphon Replacement Project is a FEMA funded project to replace the damaged sewer siphon from the February 2019 storm. Permitted plans have been signed by CVWD and have been approved by the City of Indio and La Quinta. CEQA documentation for this project has been completed. This project is currently being held up by FEMA. VSD needs FEMA approval before proceeding with bidding and construction which was expected by February 2023.	VSD has been in communication with FEMA and CalOES which has led to FEMA nearing completion of their environmental review. Project approval and the ability to go out to bid is in the near future.	\$10,721,000.00	\$0.00
New Training and Office Building and Laboratory Building	VSD has chosen SGH Architects as the architectural firm for the preliminary design of a new single story training/office building and new laboratory building. Staff have selected a new location for the training/office building that will allow the single-story building with minimal demolition. The architect has completed the schematic design and cost estimate for both the training/office building and laboratory building. An onsite survey was conducted on July 7th. SGH Architects is continuing with the final design of both the Office & Training and Laboratory Buildings. SGH has submitted 50% design plans which include both buildings for staff review and comment in December 2021.	This project is being delayed for a year or two to allow other priority projects to proceed and maintain our debt coverage.	\$0.00	\$0.00
Additional Parking and Landscaping	The District is need of additional parking for employees and customers. Staff proposes to remove the lawn at the front of the property and replace it with parking and drought tolerant landscaping.	A preliminary design of the Project has been completed. In que for the next steps.	\$0.00	\$0.00

## Environmental Compliance Summary Report for 2024

Task	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total YTD
<b>Pretreatment</b>													
Customer Service Calls	6												6
Commercial Approval Letters	2												2
Change of Ownership Inspection	2												2
SIU Permit Compliance	3												3
FOG-FSE Inspections Completed	27												27
Commercial Inspections Completed	4												4
Environmental & Collections investigations													0
Failed Inspections or NOV													0
<b>Total # of Inspections</b>	<b>34</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>34</b>
<b>Laboratory</b>													
# of Collected Samples	345												345
# of Tests (Analyses)	690												690
# of Samples sent to Contract Labs	5												5
# of Contracted Tests (Analyses)	47												47
# of Samples - WBE Surveillance	22												22
% of Samples performed In-House	98.6%												98.6%

# Wastewater Surveillance News



**Giving Water Another Chance**

FEBRUARY 2024

**Your Guide to  
VSD & Pathogens**

## **IN THIS ISSUE**

Program & Pathogen  
Information

Program Timeline

Data Infographics &  
Trends

## Program Highlights

Valley Sanitary District (VSD) participates in 4 Wastewater Surveillance Programs:

- WastewaterScan
- Biobot Analytics – Pathogens
- National Institute on Drug Abuse (NIDA) Program
- CDC – National Wastewater Surveillance System (NWSS)

Wastewater surveillance is utilized to monitor the presence of pathogens and elements of concern within VSD's service community by monitoring trends in data.

Public health officials can utilize the data to prevent and control contaminants & pathogens of concern within our service area.

**Websites** VSD Program data shared with:

- [COVIDPoops19](#)
- [Cal-SuWers Network](#)
- [WastewaterScan](#)
- [CDC Covid Tracker](#)
- [Biobot Covid Tracker](#)

**PodCast:** [WEF "Sewer Signals"](#)



# Program Information

## National Institute for Drug Abuse (NIDA)

VSD is a participant in the Biobot Analytics Phase III contract from the National Institute on Drug Abuse (NIDA) of the National Institutes of Health (NIH). The NIDA funded wastewater-based monitoring program is a collective effort to address substance use, misuse, and related impacts on public health and safety. More information can be found [here](#).

The 12-month NIDA grant funds the collection and analysis of population level substance data by providing wastewater analysis of substances and their metabolites to help inform future research endeavors, improve public health responses, and allow policymakers to make data-driven decisions.



National Institute  
on Drug Abuse



NATIONAL™  
WASTEWATER  
SURVEILLANCE  
SYSTEM

BIO  
BOT

WASTEWATER  
SCAN  
Collect. Detect. Inform.

## CDC - NWSS

CDC executed a Wastewater-based epidemiology (WBE) contract with Verily Life Sciences for pathogens of concern.

## Biobot

The Biobot Analytics program is pathogen surveillance for one (1) Influent composite sample weekly for 12-month duration. Data includes Flu & RSV in addition to the Covid-19 data. More information can be found [here](#).

## WastewaterScan

The WastewaterScan program monitors a suite of Respiratory, Gastrointestinal and Outbreak Pathogens of Concern. More information can be found [here](#).

# Pathogen Information

Click on the Pathogen name for more information on the CDC website.

## Respiratory Pathogens

<a href="#">SARS-CoV-2 +Variants</a>	Severe Acute Respiratory Syndrome; spread through droplets from coughs, sneezes, or talking.
<a href="#">Influenza A &amp; B</a>	Seasonal respiratory viruses can cause flu pandemics.
<a href="#">Respiratory Syncytial Virus (RSV)</a>	Common respiratory virus causing mild, cold-like symptoms. RSV can be serious for infants and older adults. Cause Bronchiolitis (infection of small airways) and pneumonia (infection of lungs).
<a href="#">Metapneumovirus (hMPV)</a>	Seasonal respiratory virus related to RSV.
<a href="#">Parainfluenza</a>	Cause different types of upper and lower respiratory illnesses most common in infants and young children, and in adults.
<a href="#">Enterovirus (EVD68)</a>	Causes common cold, asthma-like symptoms, wheezing, difficulty breathing and in rare cases the polio-like disorder, acute flaccid myelitis (AFM).

## Gastrointestinal Pathogens

<a href="#">Adenovirus Group</a>	Targets the GI tract to cause gastroenteritis with symptoms like rotavirus and norovirus. Identified mostly in small children with hepatitis symptoms.
<a href="#">Rotavirus</a>	Major cause of GI illness (diarrheal disease) among infants and young children, vaccine preventable.
<a href="#">Human Norovirus GI1</a>	Leading cause of GI illness

## Other Pathogens of Concern

<a href="#">Candida auris</a>	Global health threat, emerging fungus resistant to all 3 major antifungal medicines. Infection can vary from superficial (skin) infections to more severe, life-threatening infections.
<a href="#">Hepatitis A</a>	Contaminated food or water or contact with infected; symptoms include fatigue, nausea, abdominal pain, loss of appetite and low-grade fever. Inflames the liver to cause mild to severe illness. Vaccine preventable.
<a href="#">Mpox</a>	Symptoms like smallpox but milder, rarely fatal.

# Substance Information

*\*Substances are measured as the amount of the metabolite detected in the wastewater. The metabolite is the body's main metabolic product of the parent substance. The parent substance is the amount of unmetabolized portions, which may not fully reflect the actual consumption of the drug.*

## Substance & Metabolite

Cocaine	White crystalline powder derived from coca leaves. It is an intense, euphoria-producing stimulant drug with strong addictive potential.
Benzoylcegonine	Body's main metabolic product ("metabolite") of cocaine ("parent" substance).
Fentanyl	Potent synthetic opioid drug approved for use as an analgesic and anesthetic. It is approximately 100 times more potent than morphine and 50 times more potent than heroin as an analgesic and is often illegally manufactured.
Norfentanyl	Body's main metabolic product ("metabolite") of fentanyl ("parent" substance).
Methamphetamine	Stimulant that speeds up the body's system. It comes in a pill, powder or crystal form made illegally in meth labs.
Amphetamine	Body's main metabolic product ("metabolite") of methamphetamine ("parent" substance).
Naloxone	Medication approved by the FDA is designed to rapidly reverse and treat narcotic overdose from opioids in emergency situations.
6a-Naloxol	Body's main metabolic product ("metabolite") of methamphetamine ("parent" substance).
Xylazine	Also known as "tranq", is a non-opioid sedative or tranquilizer used by veterinarians and is an emerging threat. Other illegal drugs can be mixed with xylazine, to enhance drug effects or increase its street use. DEA reports that approx. 23% of fentanyl powder and 7% of fentanyl pills seized by the DEA in 2022 contained xylazine. Usage may cause skin infections and tissue death.
4-hydroxy xylazine	Body's main metabolic product ("metabolite") of methamphetamine ("parent" substance).



# Program Timeline

Jun – Oct 2021	US Dept. Health & Human Services (HHS) partnered with Biobot Analytics (12-week fully Funded Program)
Oct – Dec 2021	GTmolecular Labs (VSD sponsored)
Jan – Apr 2022	CDC NWSS partnership with LuminUltra (12-week fully Funded Program)
Jan – Jul 2022	Biobot Network (6-month fully Funded Program)
Apr 2022 – Sep 2023	CDC NWSS Partnership with Biobot Analytics (fully Funded Program)
Aug 2022 – ongoing	WastewaterScan: Stanford Initiative partnered with Verily Life Sciences (18-month Stipend funded program) – extended to May 2024
Oct 2023 – ongoing	CDC NWSS Partnership with Verily Life Sciences (fully Funded Program) -Temporary program started Dec 2023 until contract dispute resolved
Oct 2023 – ongoing	NIDA partnership with BioBot Network (12-month fully Funded Program)

# Data Trends

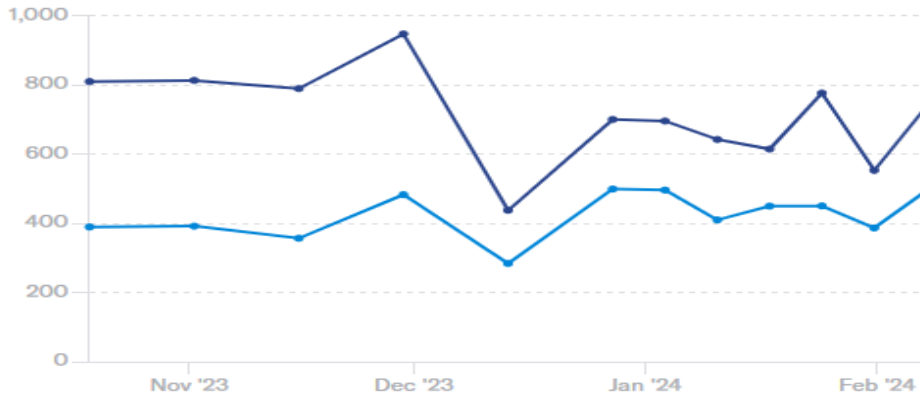
## NIDA Substances

Select Date Range

Start date → End date

Cocaine  Benzoylcegonine

Valley Sanitary District INF-001\_Influent

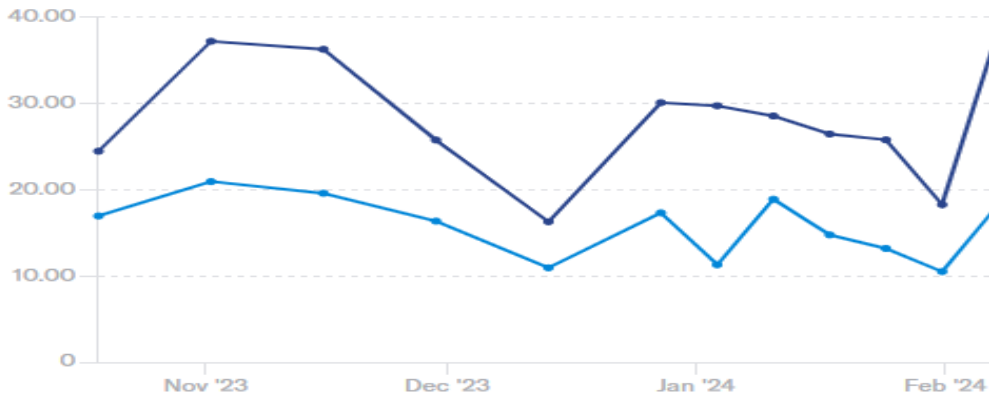


Select Date Range

Start date → End date

Fentanyl  Norfentanyl

Valley Sanitary District INF-001\_Influent

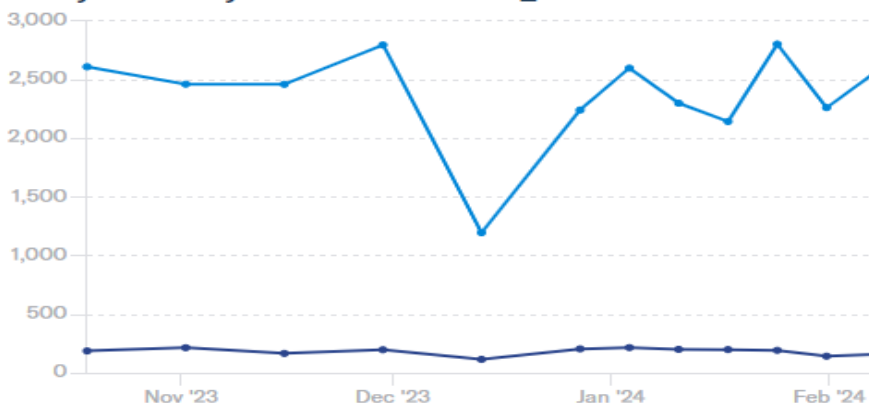


Select Date Range

Start date → End date

Methamphetamine  Amphetamine

Valley Sanitary District INF-001\_Influent

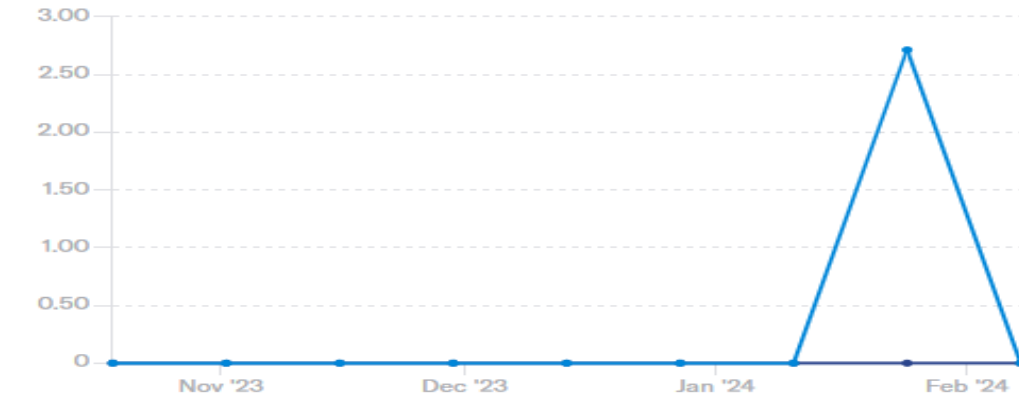


Select Date Range

Start date → End date

- Naloxone
- 6α-Naloxol

Valley Sanitary District INF-001\_Influent

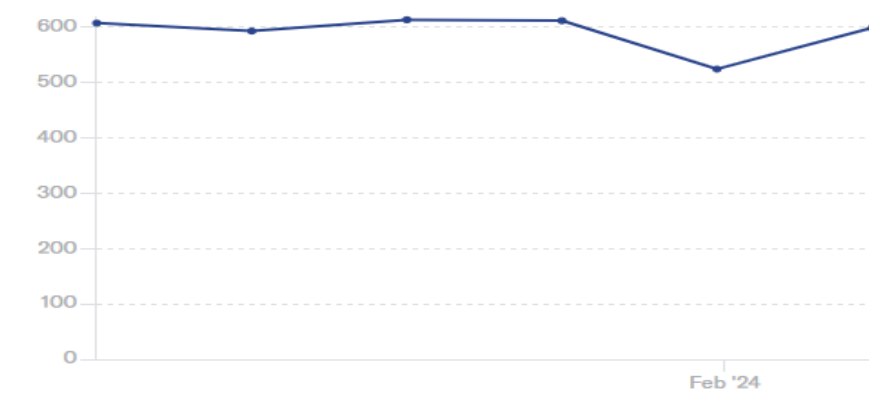


Select Date Range

Start date → End date

- Nicotine
- trans-3'-Hydroxycotinine

Valley Sanitary District INF-001\_Influent

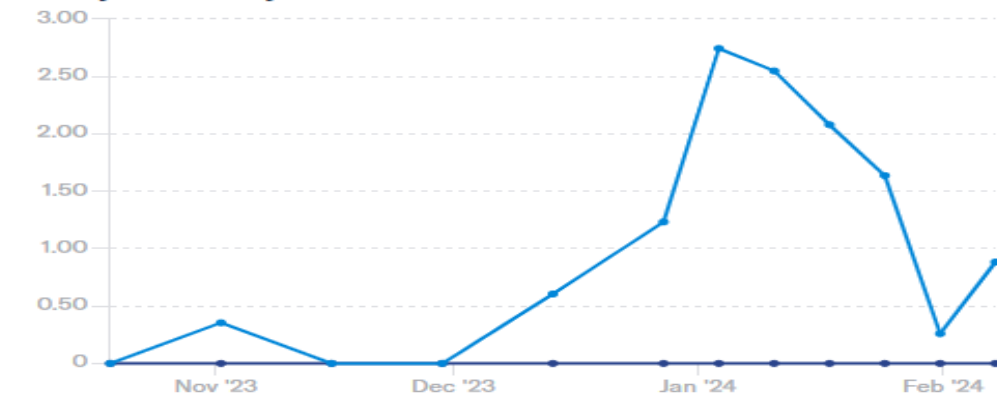


Select Date Range

Start date → End date

- Xylazine
- 4-hydroxy xylazine

Valley Sanitary District INF-001\_Influent

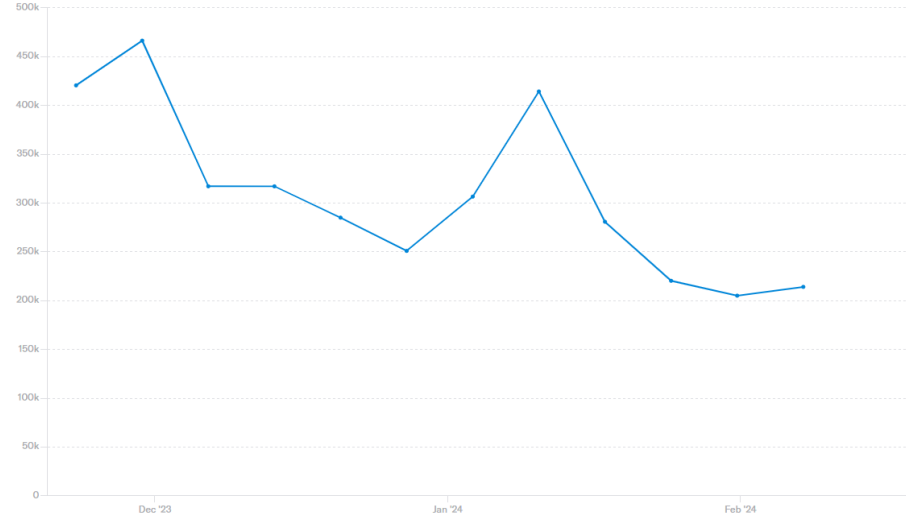




# BioBot Pathogens

## SARS-CoV-2 (COVID-19)

Wastewater Effective Concentration (copies/L)



Concentration

copies/L  copies/mL

Edit Duration

2023-11-20 → 2024-02-20

Select Locations

1 Selected

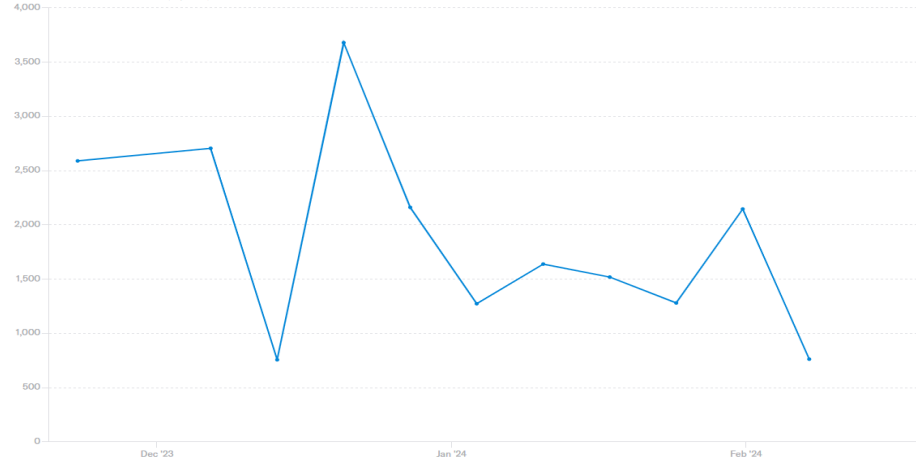
Valley Sanitary District INF-001\_Influent

## RSV

Compare RSV across Locations

Discover trends in RSV with this interactive time series graph. Select multiple locations to look at trends over time and across locations. This visualization supports monitoring and comprehension of RSV dynamics in wastewater.

Wastewater Effective Concentration (copies/L)



Edit Duration

2023-11-20 → 2024-02-20

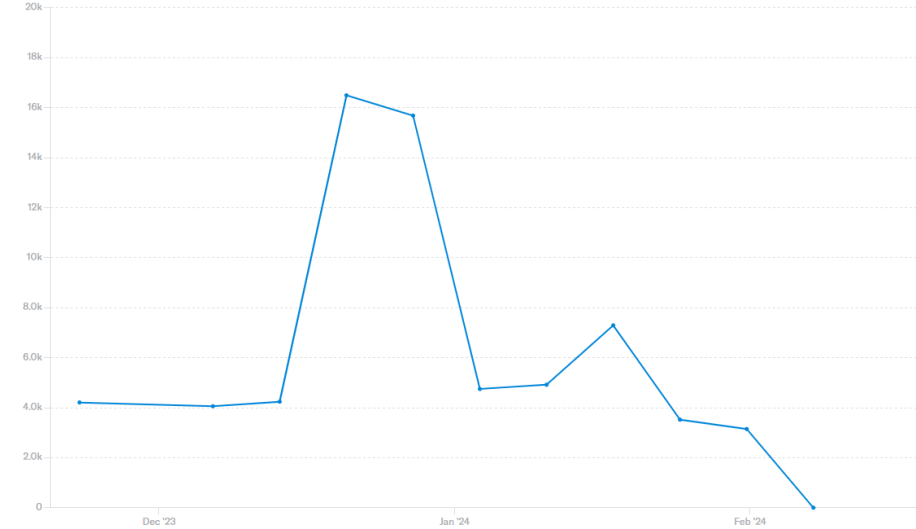
Select Locations

1 Selected

Valley Sanitary District INF-001\_Influent

## Influenza A

Wastewater Effective Concentration (copies/L)



Type Selection

Influenza A  Influenza B

Edit Duration

2023-11-20 → 2024-02-20

Select Locations

1 Selected

Valley Sanitary District INF-001\_Influent

# Influenza B

Wastewater Effective Concentration (copies/L)



Type Selection

Influenza A Influenza B

Edit Duration

2023-11-20 - 2024-02-20

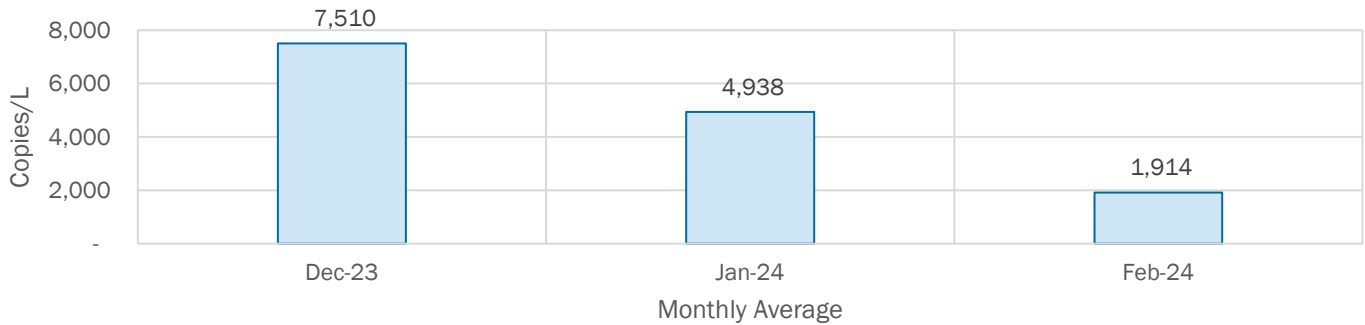
Select Locations

1 Selected  
 Valley Sanitary District INF-001\_Influent X

## CDC – NWSS

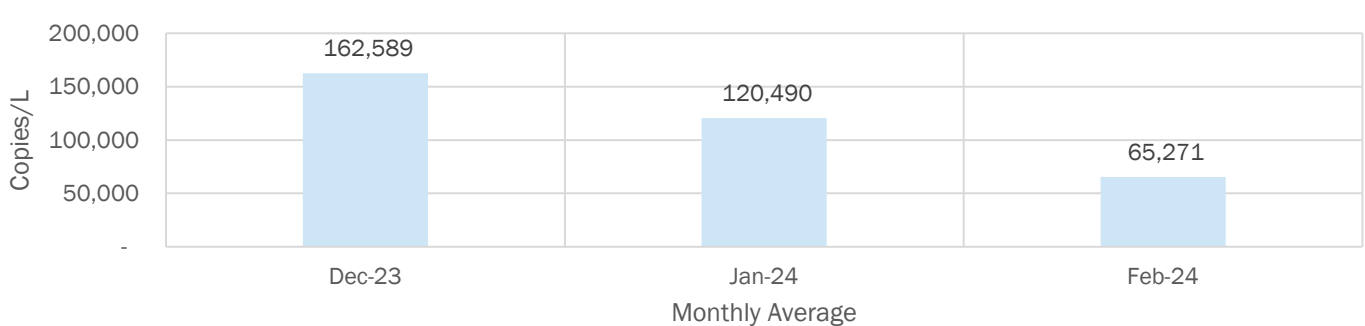
### VSD Wastewater Treatment Plant Influenza A Concentration

Average Number of Viral Copies per Liter of Wastewater by Month

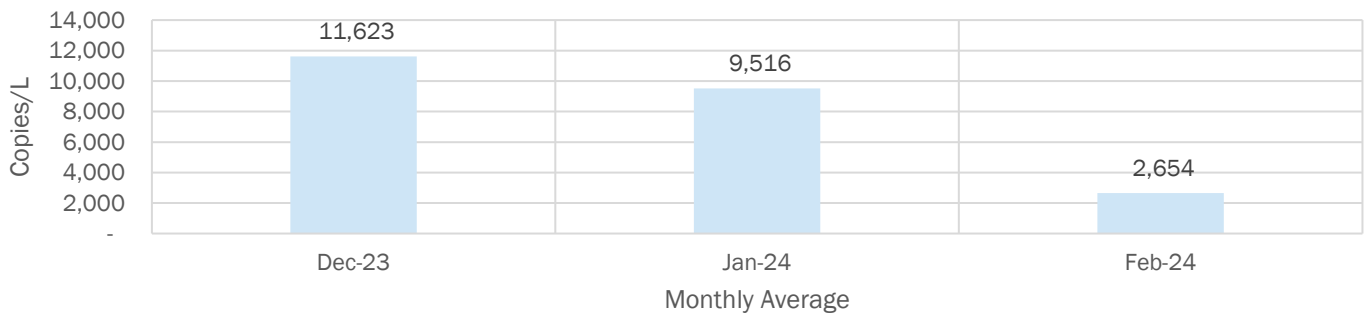


### VSD Wastewater Treatment Plant SARS-CoV-2 Concentration

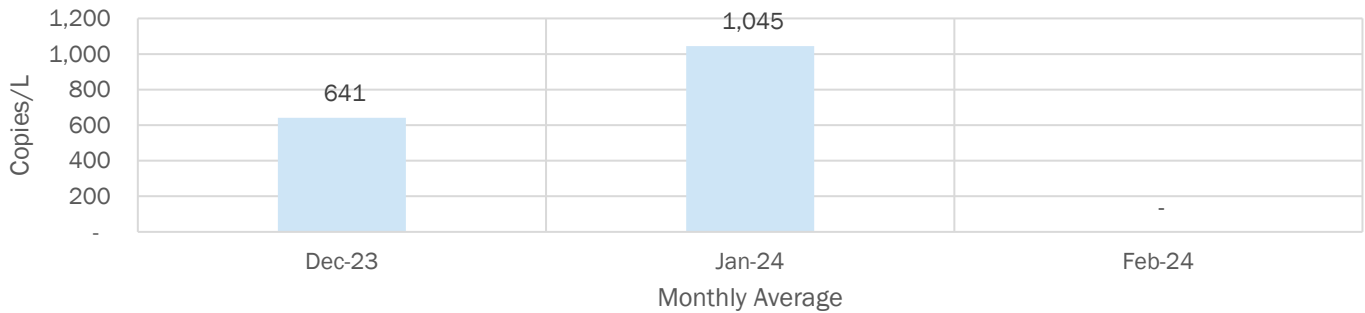
Average Number of Viral Copies per Liter of Wastewater by Month



VSD Wastewater Treatment Plant  
RSV Concentration  
Average Number of Viral Copies per Liter of Wastewater by Month



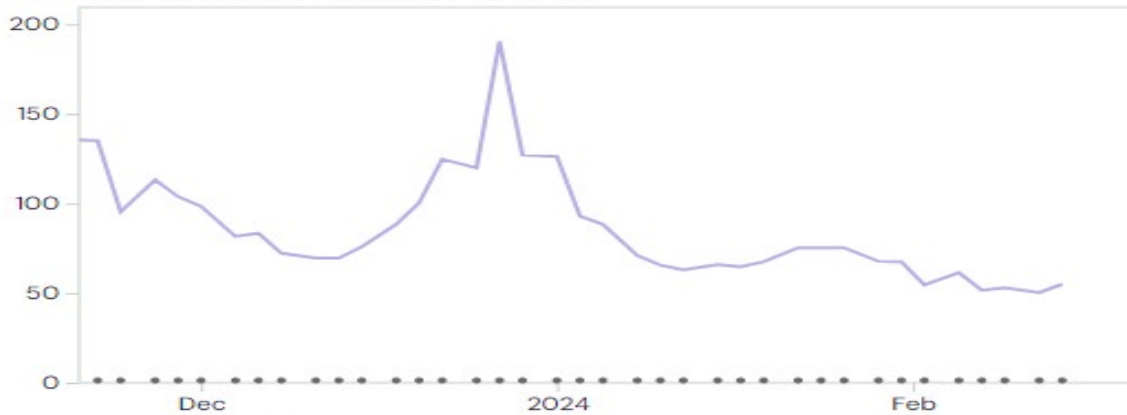
VSD Wastewater Treatment Plant  
Influenza B Concentration  
Average Number of Viral Copies per Liter of Wastewater by Month



## WastewaterSCAN

SARS-CoV-2 Low

No trend in the last 21 days and low concentration

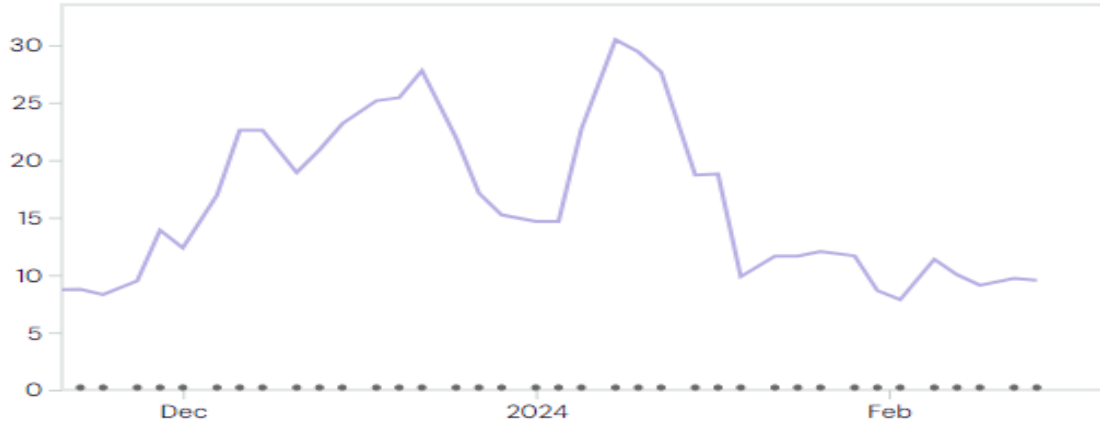


• Sample collected — SARS-CoV-2

[See details >](#)

### Respiratory syncytial virus (RSV) Medium

No trend in the last 21 days and medium concentration

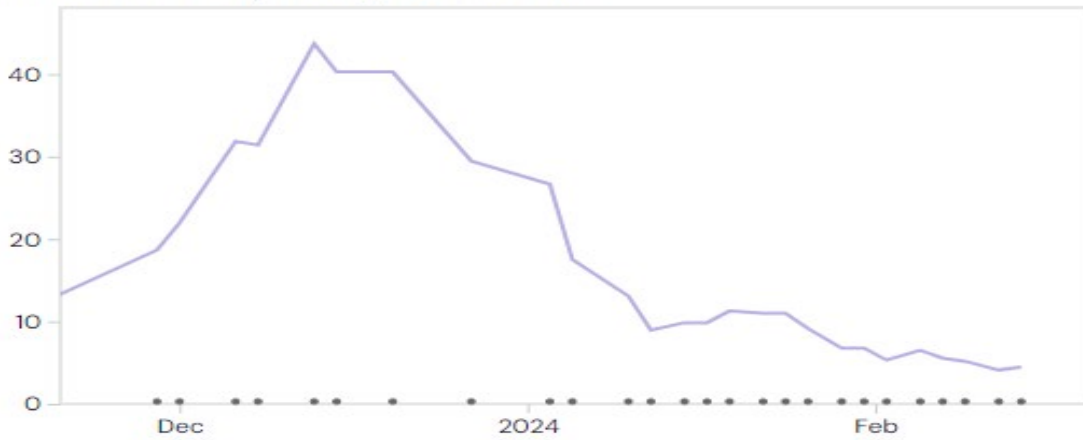


• Sample collected — RSV

[See details >](#)

### Influenza A High

No trend in the last 21 days and high concentration

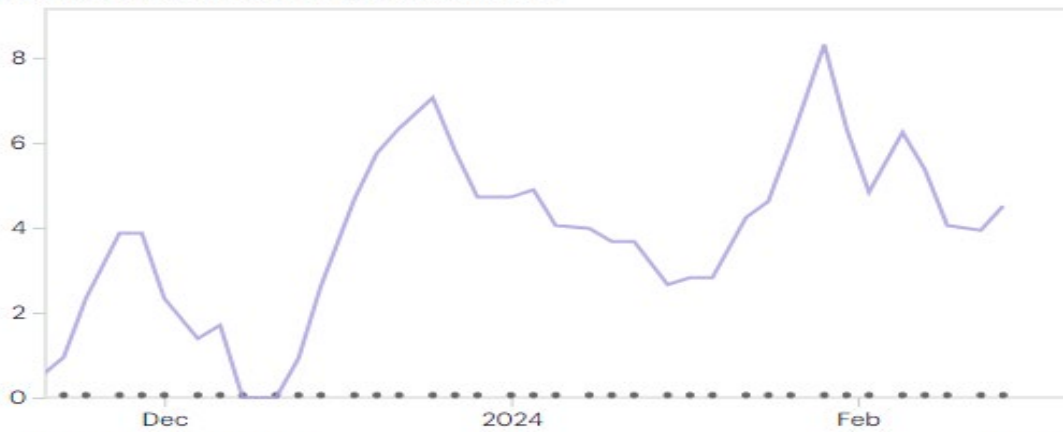


• Sample collected — Influenza A

[See details >](#)

### Influenza B High

No trend in the last 21 days and high concentration

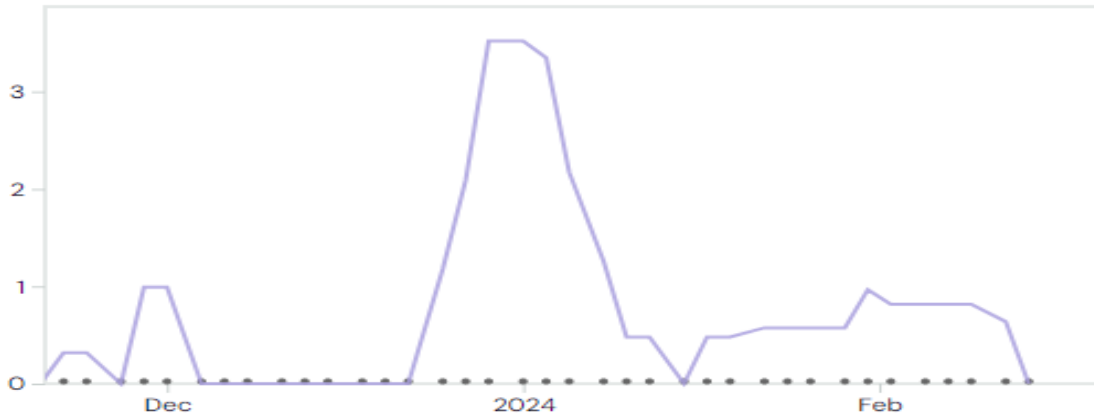


• Sample collected — Influenza B

[See details >](#)

### Human Metapneumovirus Low

Pathogen is seasonal and not in onset

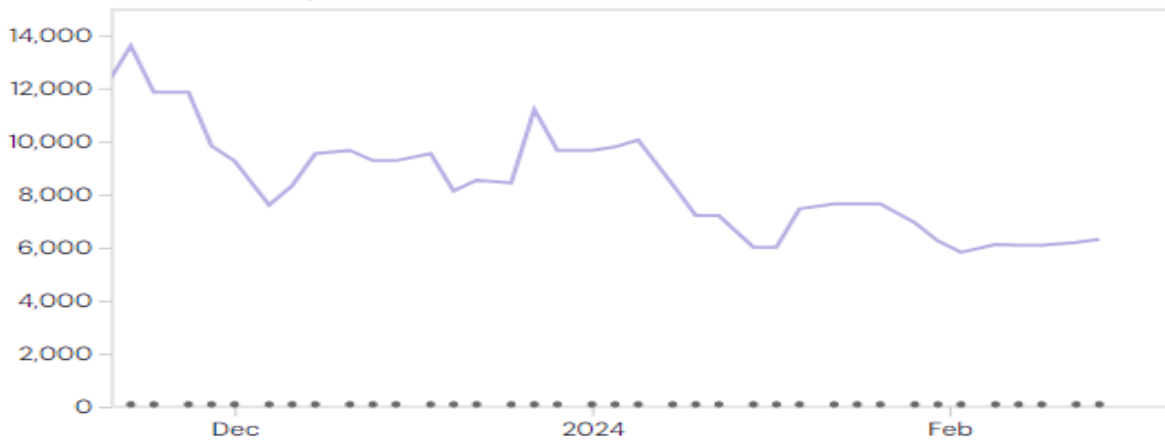


• Sample collected — Human Metapneumovirus

[See details >](#)

### Norovirus Low

No trend in the last 21 days and low concentration

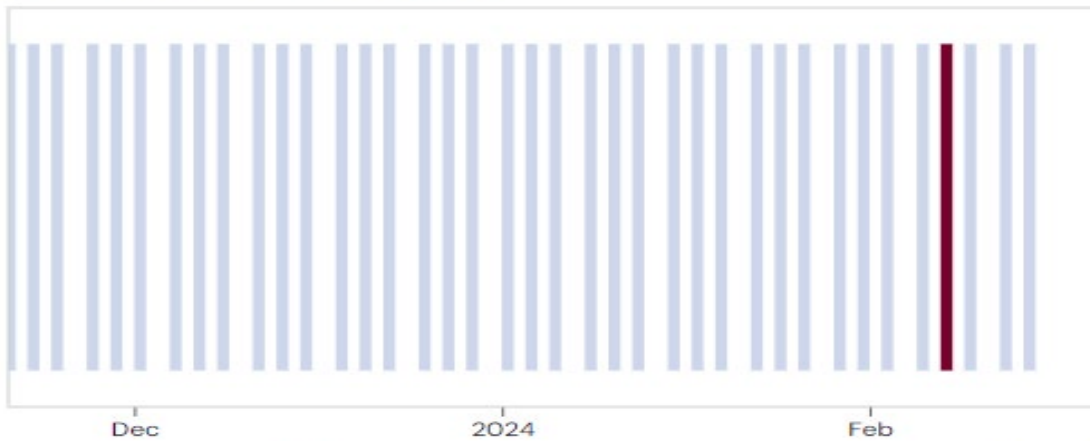


• Sample collected — Norovirus

[See details >](#)

### Candida auris Not Calculated

A category was not calculated for this pathogen

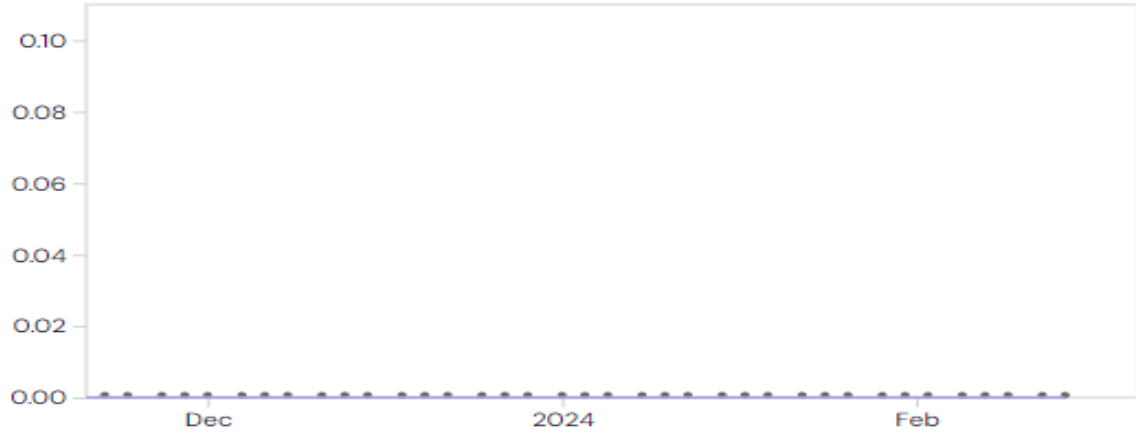


Level: ■ Not detected ■ Detected

[See details >](#)

**EVD68** Not Calculated

A category was not calculated for this pathogen

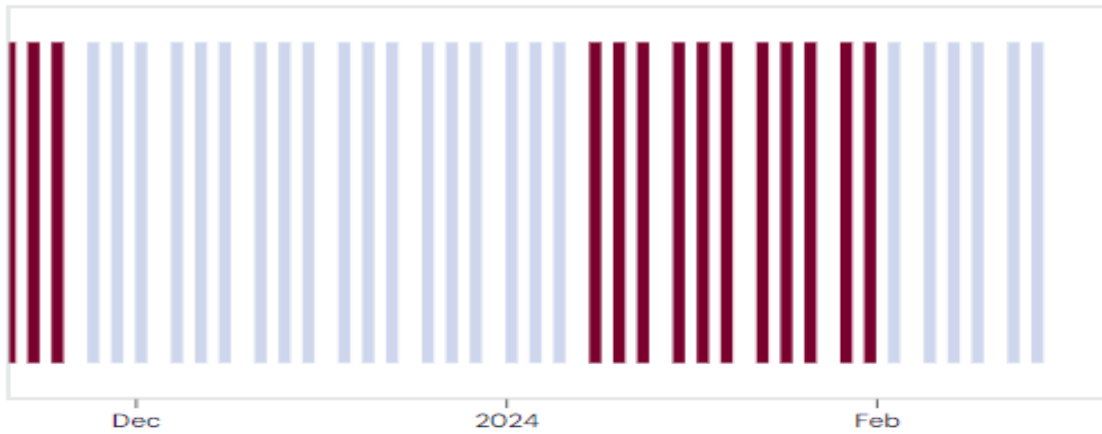


• Sample collected — EVD68

[See details >](#)

**Hepatitis A** Not Calculated

A category was not calculated for this pathogen

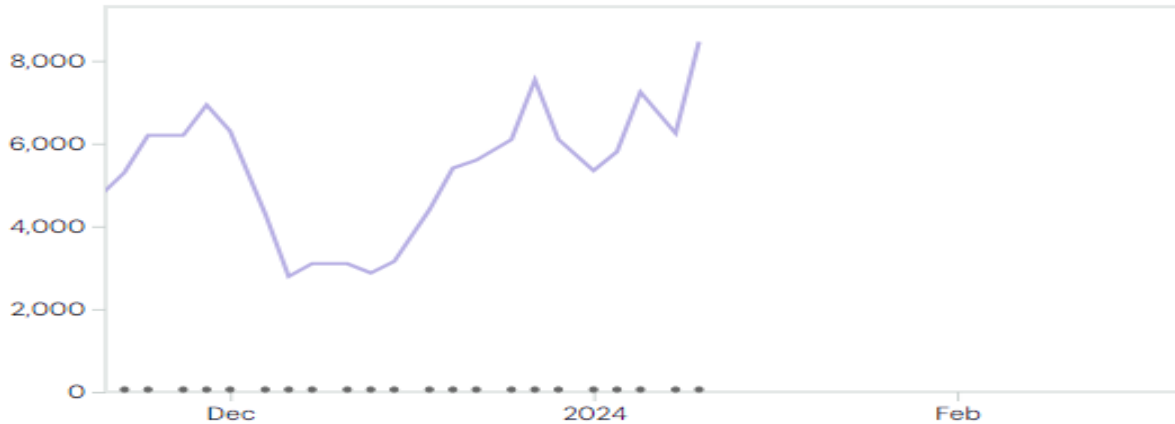


Level: ■ Not detected ■ Detected

[See details >](#)

**Human Adenovirus Group F** Not Calculated

A category was not calculated for this pathogen



• Sample collected — Human Adenovirus Group F

[See details >](#)



