

CRESCENTA VALLEY WATER DISTRICT

**2700 Foothill Boulevard
La Crescenta, California**

**Agenda for the
Regular Meeting of the Board of Directors
of the Crescenta Valley Water District
to be held on Tuesday, February 13, 2024, at 7:00 p.m.**

Posted: Saturday, February 10, 2024 at 6:00 p.m.

This meeting will be conducted in person at the address listed above. Members of the public may also participate virtually by using a touchtone phone. You may select any of the following phone numbers (there are more than one for increased reliability during this time of increased phone traffic)

(669) 900-6833

(346) 248-7799

(929) 205-6099

(253) 215-8782

(301) 715-8592

(312) 626-6799

Then, enter Access Code: 821 3491 0495

Those members of the public who are able to and would like to additionally participate through computer may access the Zoom audio & video conferencing tool available at the following link:

<https://us02web.zoom.us/j/82134910495>

If there is a disruption of service, this meeting will continue without remote participation. The remote participation option is provided as a convenience to the public and is not required.

Public comment may be made either by emailing comments ahead of the meeting or by speaking over the phone. Emailed comments will be sent to the Board of Directors prior to the meeting and posted on the District's website. Comments may be sent to customer service, at (818) 248-3925 or customerservice@cvwd.com by 3pm on February 13, 2024.

Any person may make a request for a disability-related modification or accommodation needed for that person to be able to participate in the public meeting by contacting the District by phone or in writing at the above email address. Requests must specify the nature of the disability and the type of accommodation requested. A telephone number or other contact information should be included so that District staff may discuss appropriate arrangements. Persons requesting a disability-related accommodation should make the request with adequate time before the meeting for the District to provide the requested accommodation.

Any written materials distributed to the Board in connection with this agenda will be made available at the same time for public inspection at the District office located at the above address and posted on the District's website.

Call to Order and Determination of Quorum

Pledge of Allegiance

Adoption of Agenda

Public Comments

At this time, the public shall have an opportunity to comment on any non-agenda item relevant to the subject matter jurisdiction of the Board. This opportunity is non-transferable, and speakers are limited to one three-minute (3) comment. Under the provisions of the Brown Act, the Board is prohibited from taking action on items not listed on the agenda, except under certain circumstances.

Foothill Municipal Water District Report

1. Report on activities at Foothill Municipal Water District.

Consent Calendar

1. Consideration and approval of the Minutes of the Adjourned Regular Board Meeting on January 23, 2024.

Action Calendar

The public shall have an opportunity to comment on any action item as each item is considered by the Board. This opportunity is non-transferable, and speakers are limited to one two-minute (2) comment.

1. **Discussion on Planning for Future Rate Increases and Rate Structures**
2. **Disposal or Salvage of District Assets**

Information Items

Written Communications to District/Board of Directors

General Manager's Report

Attorney Report

Reports of Committees

- Engineering Committee
- Finance Committee
- Employee Relations Committee
- Policy Committee
- Community Relations/Water Conservation Committee
- Emergency Planning Committee
- Technology Committee

Directors' Oral Reports – Reports on issues, meetings, or activities attended by Directors.

Board Members' Request for Future Agenda Items

Closed Session

Adjournment



CRESCENTA VALLEY WATER DISTRICT
ADJOURNED REGULAR MEETING, BOARD OF DIRECTORS
January 23, 2024

Pursuant to the order of the Board of Directors of the Crescenta Valley Water District made at the Regular Meeting on January 9, 2024, an Adjourned Regular Meeting was held on January 23, 2024, at 7:00 p.m. at the District office at 2700 Foothill Blvd., La Crescenta, California and through audio and video conference. A call-in number was clearly noted on the meeting Agenda, posted in accordance with the Brown Act, with Vice President Jeffery Johnson presiding.

At roll call, the following Directors and staff members were present or online:

Directors:

James D. Bodnar
Kerry D. Erickson
Jeffery W. Johnson
Sharon S. Raghavachary (virtual)
Jennifer T. Valdez

Attorney:

Thomas Bunn

General Manager:

James Lee

**Interim Director of Engineering
and Operations:**

Brook Yared (virtual)

Staff Members:

Tessa Allmon, Customer Service Lead
Patrick Atwater, Regulatory & Public Affairs Manager
Kellen Boyce, System Operations Manager
Pam Leddy, Administrative Assistant
Arturo Montes, Finance & Administration Manager
Adam Sutphin, Senior Management Analyst
Darlene Telles, Operations & Maintenance Manager

Guests:

Frank Colcord, Foothill Municipal Water District
Sanjay Gaur, Water Resources Economics
Kara Hooks, Chandler Asset Management
William Johnson
Adam Probolsky, Probolsky Research

PLEDGE OF ALLEGIANCE

Mr. Montes opened the meeting by leading the Directors and staff in reciting the Pledge of Allegiance.

ADOPTION OF AGENDA

It was moved by Director Bodnar, seconded by Director Erickson, and carried by a 5-0 call vote that the Agenda for the Adjourned Regular Meeting of January 23, 2024, be adopted.

PUBLIC COMMENTS – Mr. William Johnson requested that Crescenta Valley Water District pursue bond and grant money. Mr. Johnson asked for information on what types of expenses capital charge revenue could be applied to.

FOOTHILL MUNICIPAL WATER DISTRICT REPORT – Director Colcord shared that Metropolitan Water District's (MWD) upper feeder will be shut down February 5th through February 9th for repairs. Mr. Colcord noted that Foothill Municipal Water District (FMWD) will be placing several lit signs on Foothill Blvd. to message increased water conservation during this period of time. Mr. Colcord thanked CVWD for providing information about the shutdown at the Crescenta Valley Town Council meeting. Mr. Colcord announced that FMWD has weather-based smart irrigation controllers available through a program funded by MET. Mr. Colcord said that the application for the rebate is available on the FMWD website for two controllers and that installation and training would be provided at no charge. Mr. Colcord pronounced that FMWD's water sales for the year ending 2023 was the third lowest since 1953, which could indicate the possibility of double digit increases by the retailer to its customers.

CONSENT CALENDAR

It was moved by Director Bodnar, seconded by Director Erickson, and carried by a 5-0 roll call vote to approve the Minutes of the Regular Board Meeting held on January 9, 2024, and to ratify the disbursements for December 2023 which consisted of:

Payment of demands against the Crescenta Valley Water District on or before December 2023, the same having been approved by the General Manager, and heretofore paid, are to be ratified and approved subject to audit, in the aggregate sum of One-Million, Two-Hundred Seventy-Two Thousand, Four-Hundred Sixty-Eight Dollars and Six Cents (\$1,272,468.06), which is composed of the individual items set forth herein.

AYES: Director Bodnar
 Director Erickson
 Director Johnson
 Director Raghavachary
 Director Valdez

NOES: None

ACTION CALENDAR

LAFCO Nomination of Candidates for Special District Voting Member – Mr. Lee announced that the four-year term for the LAFCO Special District Voting Member Representative, Mr. Don Dear will conclude, and that LAFCO has retained Mr. William Kruse of Lagerlof, LLP to conduct the nominations for the position. Director Johnson nominated Director Raghavachary as a candidate for the LAFCO Special

District Voting Member. The nomination was seconded by Director Bodnar. There were no further nominations.

Following discussion:

The nomination was carried by a 5-0 roll call vote to nominate Director Raghavachary to submit her name for nomination for the office of LAFCO Special District Voting Member.

AYES: **Director Bodnar**
 Director Erickson
 Director Johnson
 Director Raghavachary
 Director Valdez

NOES: **None**

Board Compensation – Mr. Lee explained that members of the Board are currently compensated for attendance at regular meetings, special meetings and conferences and opened a discussion of whether to broaden the definition of “services rendered” as written in the District’s Rules and Regulations Section 4.04.

Following discussion:

The Board requested that the proposal be brought to the Policy Committee and the Finance Committee for further discussion.

Public Opinion Research – Mr. Atwater provided handouts of the changes to the public opinion research survey requested by the Board at the January 9th Board meeting. Mr. Lee shared that the survey will be useful for determining the issues most important to the community, which will in turn guide future decision-making and public messaging. The survey data can also be used as a baseline against which future surveys can be compared to measure program efficacy. Mr. Atwater stated that staff had prepared two options for the Board’s consideration, 1) a shorter survey containing 25 questions; and 2) a longer survey with an increased cost due to the extra questions. Both surveys would target a sample size of 300 respondents.

Following discussion:

The Board agreed to finalize the public opinion survey questions and proceed with the longer survey.

Rate Study Considerations – Mr. Montes stated that at the rate study workshop held at the La Crescenta Public Library on November 8, 2023 Sanjay Gaur presented the Board with the various ways water can be billed. At this workshop, the Board directed staff to prepare a preliminary feasibility analysis of a water-budget rate structure. Mr. Montes shared that CVWD’s current billing system has the capability of billing customers using water budgets, and although the current two-month billing cycle does not find any procedures that would preclude budget based billing, staff believes transitioning to a monthly billing cycle would be advantageous to the District and its customers. Mr. Montes explained that the District’s current financial position allows for delaying a rate increase to January 1, 2025, or July 1, 2025, and provided a graph illustrating the cumulative lost revenue associated with delaying a rate increase compared to a

scenario with a 7% annual increase starting July 1, 2024. Mr. Montes said that the budget-based billing could be completed by January 2025. The Board directed staff will produce an analysis to share at a subsequent Finance Committee meeting and Board meeting.

Director Raghavachary left the meeting at 8:22 pm.

Investment Strategy – Mr. Montes presented the current investment report prepared by Chandler Asset Management for the period ending December 31, 2023. Mr. Montes explained that the lowering Federal Funds Rate presents the District with an opportunity to reinvest funds in longer-term maturities, to lock in higher returns as rates decline, and that with the issuance of its 2024 series bonds, the District will have a positive cash flow. Kara Hooks from Chandler Asset Management provided a summary of its strategy in the current market.

Q2 Budget Report for FY 2023-24 – Mr. Montes presented a summary of the District’s Second Quarter Water and Wastewater Budget Report revenues and expenditures for FY 2023-24. Mr. Montes provided detailed information on revenues and expenses to notate over/under variances for each of the departments.

INFORMATION ITEMS – CV Weekly, January 11, 2024 “CVWD Holding Q & A”, CV Weekly January 18, 2024 “Rain Barrel Distribution”.

WRITTEN COMMUNICATIONS TO DISTRICT – None

GENERAL MANAGER – Mr. Lee thanked the Directors and staff for their participation in the “Office Hours” at the La Crescenta Public Library, which was held on January 17, 2024. Mr. Lee announced that the developer for the property at 2434 Foothill has notified the District that development of this property will cease. Mr. Lee shared the first “State of the District” report which will be distributed to the community. Mr. Montes provided highlights of the Customer Service & Administration Report for the month of December 2023. Mr. Montes announced that the District recently hired Avetis (Avo) Matsunyan for the Facilities Maintenance position.

ATTORNEY REPORT – No report

REPORTS OF COMMITTEES

Engineering and Operations Committee – Director Bodnar reported that the Committee had not met; however, a meeting is scheduled for February 1, 2024.

Finance Committee – Director Raghavachary reported that the Committee had met on January 18, 2024 and discussed the Investment Strategy, Rate Study and future rate increases, the FY 2024 Q2 Budget Report and Bond update. A meeting will be scheduled as needed.

Employee Relations Committee – Director Valdez reported that the Committee had not met; however, a meeting will be scheduled as needed.

Policy Committee – Director Bodnar reported that the Committee had met not met; however, a meeting will be scheduled as needed.

Community Relations/Water Conservation Committee – Director Raghavachary reported that the Committee had not met; however, a meeting will be scheduled as needed.

Emergency Planning Committee – Director Johnson reported that the Committee had not met; however, a meeting will be scheduled as needed.

Executive Committee – Director Raghavachary reported that the Committee had not met; however, a meeting will be scheduled as needed.

Technology Committee – Director Erickson reported that the Committee had not met; however, a meeting will be scheduled as needed.

DIRECTORS' ORAL REPORTS

Director Bodnar – Reported that he attended the Office Hours event at the La Crescenta Public Library on January 17th and the Town Council meeting on January 18th.

Director Erickson – Reported that he attended the Office Hours event at the La Crescenta Public Library on January 17th and the Town Council meeting on January 18th.

Director Johnson – No report

Director Raghavachary – Absent

Director Valdez – No report

BOARD MEMBERS REQUESTS FOR FUTURE AGENDA ITEMS – None

CLOSED SESSION – None

ADJOURNMENT

There being no other business to come before the Board, at 9:24 p.m., the meeting was adjourned to February 13, 2024, at 7:00 p.m.

APPROVED

Sharon S. Raghavachary
President

James Lee
General Manager

CRESCENTA VALLEY WATER DISTRICT

FINANCE COMMITTEE - STAFF REPORT

Information Item No. 1
February 6, 2024

To: Honorable President and Members of the Board of Directors
From: Arturo Montes – Finance and Administration Manager
Subject: **Discussion on Planning for Future Rate Increases and Rate Structures**

INFORMATION ITEM:

Discuss next steps for future rates increases and rate structures

BACKGROUND:

During the January 23, 2024 Board meeting, staff presented the Board with different options for moving forward with the rate study and future rate increases. Staff provided broad comments regarding whether a rate increase expected for July 2024 could be deferred to January 2025 or July 2025. This would provide more time to transition to and provide public messaging regarding the District's intended transition from its "inclining-tiers" rate structure to a "water-budget" rate structure. The options were narrowed to July 2024 and July 2025.

Following discussion, the Board directed staff to provide the Finance Committee with the actual revenue implications of deferring rates, whether the revenue shortfall during the interim period, the long-term health of reserves balances, or the compounded impact of lost revenue over time. The analysis was presented during the February 6, 2024 Finance Committee, and the committee directed staff to share it with the Board.

DISCUSSION:

The District can raise additional revenue to sufficiently meet revenue requirements through three primary levers: 1) increase to the meter/service/fixed rate; 2) increase to the usage/consumption/variable rate; and 3) increase to the capital charge. For the purpose of this discussion, one or all of the above can be increased. The following represents three timing scenarios. Each scenario assumes 6% rate increases in perpetuity, consistent with the Roadmap plan implemented in 2019/2020 –

1. "Defer + status quo rates": 0-7-7 – Rate increases of 7% in July 2025 and July 2026;
2. "Defer + catchup rates": 0-14-7 – A rate increase of 14% in 7/2025, 7% increase in 7/2026;
3. "Do not defer + status quo rates": 7-7-7 – Rate increases of 7% in 7/2024, 7/2025 and 7/2026.

Included are three charts for the committee's review and discussion. They are intended to help guide the discussion on rate increases.

1. CVWD Cash Flow (Table) – A summary of projected revenues and expenses and the net effect on reserves.¹
2. Estimate Bill – Effects of a 7% and 14% rate increase on the average customer.
3. Capital Charge – Capital charge increase equivalent to a 7% rate increase.

¹ The purpose of this table is to illustrate the relationship between rate increases and revenue (or lost revenue) over time. Estimates for operating and capital expenses are subject to change as they are developed ahead of the FY 2024-25 budget.

CVWD Cash Flow

Revenue	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032	FY2033
0-7-7	16,039,966	16,965,265	17,955,271	18,863,432	19,826,032	20,846,336	21,927,806	23,074,108	24,289,133
0-14-7	16,039,966	17,888,985	18,943,651	19,911,115	20,936,576	22,023,513	23,175,613	24,396,784	25,691,169
7-7-7	16,963,686	17,953,645	19,012,838	19,984,453	21,014,314	22,105,916	23,262,960	24,489,372	25,789,312
Expenses									
Operating Expense	13,045,564	13,702,889	15,512,640	15,971,678	16,551,140	19,077,048	19,702,288	20,251,955	20,346,137
Pipeline	4,004,020	4,033,254	4,782,263	6,056,260	8,020,000	8,955,189	10,215,549	10,240,000	11,518,612
Other CIP	2,595,208	3,824,538	4,583,137	7,808,100	8,506,294	3,947,258	1,727,523	2,463,341	1,774,640
Total Expense	19,644,792	21,560,681	24,878,040	29,836,038	33,077,434	31,979,495	31,645,360	32,955,296	33,639,389
Net (Rev-Exp)									
0-7-7	(3,604,826)	(4,595,417)	(6,922,769)	(10,972,607)	(13,251,403)	(11,133,158)	(9,717,554)	(9,881,187)	(9,350,256)
0-14-7	(3,604,826)	(3,671,697)	(5,934,389)	(9,924,923)	(12,140,858)	(9,955,981)	(8,469,747)	(8,558,511)	(7,948,220)
7-7-7	(2,681,106)	(3,607,036)	(5,865,202)	(9,851,586)	(12,063,120)	(9,873,579)	(8,382,400)	(8,465,924)	(7,850,077)

Estimate Bill

3/4' Meter Rates	Current	7% Rate Increase	14% Rate Increas
Meter Charge	\$ 68.12	\$ 72.89	\$ 77.66
Tier 1	\$ 5.96	\$ 6.38	\$ 6.79
Tier 2	\$ 11.09	\$ 11.87	\$ 12.64
Tier 3	\$ 15.63	\$ 16.72	\$ 17.82
Avg 17 Unit Bill	\$ 205.35	\$ 219.72	\$ 234.10
Increase per bill	-	\$ 14.37	\$ 28.75

Capital Charge

Capital Charge	7% rate Increase eq	Total Capital Charge
Revenue	\$ 923,720	\$ 2,817,412
3/4" Rate	\$ 95	\$ 289
Monthly Equivalent	\$ 8	\$ 24

RECOMMENDATION

Discuss and direct staff as to any next steps and timeline for implementing rate increases and/or completing a water-budget rate structure rate study.

Prepared and Submitted by:



Arturo Montes
Finance & Administration Manager

Attachment(s): None

CRESCENTA VALLEY WATER DISTRICT

BOARD OF DIRECTORS - STAFF REPORT

Action Item No. 2
February 13, 2024

To: Honorable President and Members of the Board of Directors
From: James Lee – General Manager
Subject: **Disposal or Salvage of District Assets (Furniture)**

ACTION ITEM:

Consideration and motion to authorize the General Manager to dispose of or salvage District assets in a manner most beneficial to the District per Section 12.04 of the Rules & Regulations.

BACKGROUND:

The goal of the District with respect to disposing of or salvaging property is to gain the best value for the District.

Section 12.04 of the District's Rules & Regulations states that the General Manager shall advise the Board of the property that has been identified for disposal, including its condition and approximate value. Upon the Board determining that the property is no longer necessary, the Board may authorize the General Manager to dispose of the property in a manner most beneficial to the District.

The assets in questions are nine chairs and four tables used in the Board room that are of unknown age and uncertain value.

RECOMMENDATION

It is staff's recommendation that the Board authorize the General Manager to dispose of or salvage District vehicles in the manner most beneficial to the District per Section 12.04 of the Rules & Regulations.

Prepared and submitted by:



James Lee
General Manager

CV Weekly

February 1, 2024

Rosemont Preserve Open Gate Morning

An “open gate” event is taking place at the Rosemont Preserve on Saturday morning, Feb. 3. This is a chance for residents to visit the Preserve and wander the trail at their own pace and enjoy the tranquil setting, the wildlife and the natural beauty. Photographers: bring your camera to capture the morning light and citizen scientists, bring your iNaturalist and Merlin apps to identify birds and add wildlife sightings!

The gate will be open from 9 a.m. to 11 a.m., and Friends of the Rosemont Preserve Committee members will be available to answer questions and present this community resource.

This event is free to the public and suitable for all ages; no reservations required. Rain cancels. Sorry, no pets please.

For further information, contact the Friends of the Rosemont Preserve at RosemontFriends@gmail.com.

Then on Sunday, Feb. 4 from 9 a.m. to 10:30 a.m., the CV Water District will present a program on watersheds and waterways.

The community is invited on a unique tour of Rosemont Preserve led by staff from the Crescenta Valley Water District. Participants will learn about watersheds, where local water comes from, and how water gets stored and delivered to area homes – all while getting to know the local water district!

This event is free to the public and suitable for all ages, no reservations required. Rain cancels event. Sorry, no pets please.

The Preserve is located at the north end of Rosemont Avenue, just past the chain link fence. Please park at Two Strike Park, 5107 Rosemont Ave., and not in front of neighbors' houses. Those with mobility issues who require a closer parking spot should contact the Rosemont Preserve Committee.

Those planning on walking the trails should wear sturdy shoes and bring water to drink.

CV Weekly

February 9, 2024

Call to Conserve Water During Major Pipeline Repair

Foothill Municipal Water District, along with its retail agencies including CV Water District, is asking residents and businesses to conserve water from today, Feb. 8, through Feb. 17 as Metropolitan Water District inspects and rehabilitates a critical water delivery pipeline. The major pipeline shutdown will impact water supply for multiple water agencies from La Verne to the Foothill area.

Residents were initially asked to conserve water starting on Feb. 5 but because of the major storms hitting the region this week, the rehabilitation project was delayed three days.

Residents are always encouraged to conserve water by turning off outdoor watering during and after rainfall naturally irrigates outdoor landscapes. The pending shutdown of the water pipeline makes that reduced outdoor water use even more important.

Below are additional tips on how residents and businesses can increase conservation during the shutdown.

- Turn off irrigation controllers and cease all outdoor watering.
- Do not mow lawns. Minimize the use of lawns (i.e., playing on them, leaving vehicles on them, etc.) to reduce stress on the turf.
- Take short five-minute showers. Place a bucket in the shower to collect the water before warming up. Use this water for plants.
- Do not leave water running when washing dishes, brushing your teeth or shaving.
- Run only full loads in washing machine and dishwasher.
- Do not use water to clean sidewalks, driveways, parking lots and other hardscapes.
- Limit vehicle washing and only patronize local carwashes that use recycled water.
- Turn off fountains and other decorative water features.

For more water-saving tips, visit www.bewaterwise.com.

Planned system maintenance and planning for stormwater capture

CVWD has prepared for and is committed to providing a reliable water supply through severe storms like the current rainfall. See the latest conditions and emergency notifications from the County [here](#).

As though prompted by the current storm, on Monday February 5th, CVWD participated in the submission of a \$110k grant proposal to help increase stormwater capture with its wholesaler Foothill Municipal Water District along with Glendale Water and Power and Pasadena Water and Power.

Water conservation tips for the planned shutdown:

The Metropolitan Water District (MWD), who provides a **portion** of CVWD's water supply, will be performing a **planned shutdown** to inspect and repair portions of its system. The anticipated timeline of the project is expected to last from February 8-13, 2024. As a precautionary measure, please increase your water conservation during this time.

- 1 Turn off irrigation controllers and cease all outdoor watering.
- 2 Do not use water to clean sidewalks, driveways, parking lots, and other hardscapes.
- 3 Run only full loads in washing machine and dishwasher.
- 4 Turn off fountains and other decorative water features.



For more water saving tips, please go to BeWaterwise.com

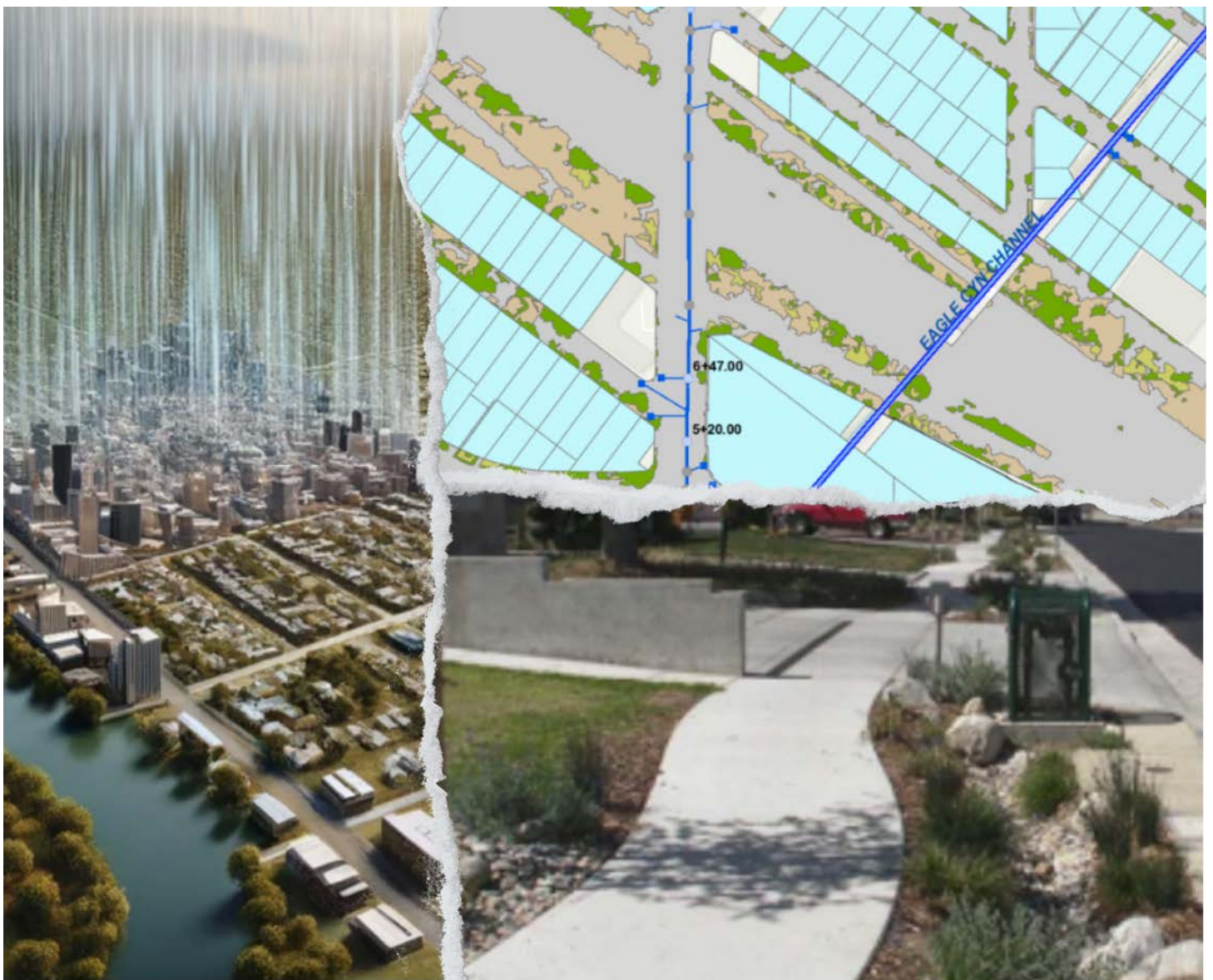


Data-Driven Resource Optimization and Planning System (*DROPS*)



A Proposal to the Metropolitan Water District
of Southern California
Future Supply Actions Funding Program

February 5, 2024



A. Executive Summary Letter

“If you take care of your drops, the gallons take care of themselves.”

Dear Mr. Warren Teitz and Selection Panel Members:

We are writing to submit our proposal for a tool designed to rapidly and materially shift the trajectory of water management strategies in the Verdugo and Raymond Groundwater Basins. As water managers in regular conversation with our peers across Southern California, we are particularly excited about the relative ease with which the benefits of our efforts in this project can be shared with Metropolitan’s other member agencies and throughout the rest of California.

We know that water management is a holistic endeavor with multiple approaches, including stormwater management and groundwater recharge. There is increasingly more related funding and wide margins for growth in these areas due to persisting barriers such as the need for feasibility studies that are prohibitive in terms of time and financial cost for retail agencies.

Data-Driven Resource Optimization and Planning System (“*DROPS*”) is a pioneering tool that integrates advanced data analytics with artificial intelligence to enhance water management capabilities. Specifically, *DROPS* achieves previously unattained levels of accuracy in terms of identifying impervious areas by triangulating aerial imagery, topographical data, remote-sensing data, and environmental databases and supplementing those datasets with analysis and insights from AI integration.

As mentioned above, most retail agencies are hard pressed for the staff or budget resources to see a larger-scale stormwater capture or groundwater recharge project from concept to implementation. As an open, collaborative analytics tool, *DROPS* represents an accessible and low-cost planning resource to identify potential sites for green infrastructure that can be designed and completed faster, while other, longer-term efforts are pursued and implemented in parallel. So often, however, innovative tools and information such as *DROPS* are not effectively channeled through established channels to make sure the information is shared and effectively and easily used by others such as our sub-agencies.

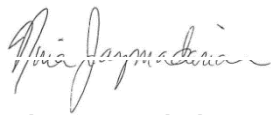
Our proposition is to demonstrate the power of *DROPS* with projects benefiting the Verdugo and Raymond basins while scaling and customizing the tool through an established and trusted industry association – the California Data Collaborative – to ensure that other retail agencies can enjoy the same benefits from decision-making and

improved water resource planning to measuring program performance and complying with State regulations.

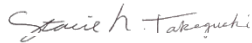
We believe that developing *DROPS* and scaling its benefits will play a pivotal role in enhancing the region's ability to adapt to climate change and ensure a secure water future. We appreciate the opportunity to present this proposal and look forward to the possibility of collaborating with the Committee to bring this vision to fruition.

"[We are] informed and believe that the information contained in this proposal is true and that the supporting data is accurate and complete."

Sincerely,



Nina Jazmadarian
General Manager –
Foothill Municipal Water
Agency



Stacie Takeguchi
Assistant General
Manager – Water,
Pasadena Water and
Power



Chisom Obegolu
Assistant General
Manager – Water
Glendale Water and
Power



James Lee
General Manager –
Crescenta Valley Water
District

Name of Proposal Water Resource Category	Stormwater
Member Agency Name (As it appears on W-9 Tax form)	Foothill Municipal Water District
Federal ID	95-6005024
Address (City, State and Zip)	4536 Hampton Road La Cañada Flintridge, CA 91011
Main Telephone	818.790.4036 X 102
Contact Name	Nina Jazmadarian
Contact Telephone	818.790.4036 X 102
Contact Email	nina.jaz@fmwd.com
Website Address	https://www.fmwd.com/home

B. Entities Participating in Proposal

Member Agencies



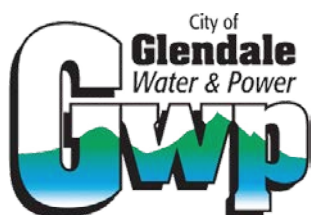
Foothill Municipal Water District

Foothill Municipal Water District (FMWD) was incorporated on January 7, 1952 to help meet the increased water needs of the rapidly growing foothill communities following the end of World War II. Water leaders, and ultimately voters, saw the need to supplement local groundwater with water imported by the Metropolitan Water District of Southern California (MWD). Foothill officially joined MWD in 1953 and operates as one of its 26 member agencies.



Pasadena Water and Power

Pasadena Water and Power is a community enterprise that has always been essential to the health, economy and quality of life in our city. Today, PWP provides electricity to more than 65,000 customers within Pasadena. We also deliver water to almost 38,000 households and businesses in Pasadena and adjacent communities in the San Gabriel Valley.



Glendale Water and Power

With a heritage that spans a century, Glendale Water & Power is a municipal utility that serves the citizens and community of Glendale, California including over 34,000 water and 89,000 electric customers. Glendale Water & Power's vision is to provide our customers with reliable and sustainable water and power services that are cost effective and innovative.

Partnering Agencies and Entities



Crescenta Valley Water District

Crescenta Valley Water District (CVWD) is located in the Crescenta Valley area of Los Angeles County in the foothills of the San Gabriel Mountains, between the San Fernando and San Gabriel valleys. The District provides water distribution and sewage collection within its boundaries to the unincorporated communities of La Crescenta, Montrose, and Verdugo City as well as a small portion of the City of La Canada-Flintridge. The District serves an area of approximately 4 square miles in relatively steep terrain ranging from 1,200 feet to almost 3,000 feet above sea level. The District currently provides water to over 8,000 accounts representing a population of approximately 32,000.



California Data Collaborative

California Data Collaborative (CaDC) is a nonprofit coalition of water supply agencies in California, counting Metropolitan and twelve of its Member Agencies and retailers as members. For eight years, the CaDC has brought together tech-forward water utilities to invest in the design and development of open-source data analysis software tools that inform its member agencies' operational decisions.

C. Key Individuals

Name / Title / Agency / Contact Information	Relevant Experience
ROLE: PARTICIPATING AGENCY LEADS	
Nina Jazmadarian General Manager <i>Foothill Municipal Water District</i> 4536 Hampton Road La Cañada Flintridge, CA 91011 818.790.4036 x102 Nina.jaz@fmwd.com	Nina Jazmadarian is General Manager at Foothill Municipal Water District. Nina oversees the operations and maintenance activities of the District to ensure that good quality water is reliably delivered to customers. This oversight includes the administrative, planning, engineering and financial aspects of the District. Nina also oversees outreach to the public including communications for water conservation. Nina has over 30 years of experience in the water industry involving water resources management, rates structures, conjunctive use and drought management plans among other subject matters in the field of water. Nina began her career at the Metropolitan Water District of Southern California where she managed various storage agreements and the various water programs that Metropolitan had. She assisted in the development of the 1994 rate structure and administered the 1991 MWD allocation plan. She also successfully negotiated several complex water storage agreements and wheeling agreements. Prior to becoming General Manager for Foothill, Nina worked as a consultant where she supported a number of Southern California water agencies in the development of rate structures, water storage programs and the feasibility of developing alternate water supplies. She also developed a water resources master plan for one of the larger water agencies in Southern California.
Stacie Takeguchi Assistant General Manager - Water <i>Pasadena Water and Power</i> 613 E. Broadway, Glendale, CA 91206 stakeguchi@cityofpasadena.net 626.744.4005	Stacie Takeguchi comes to Pasadena Water and Power with more than 20 years of experience in the water industry. Prior to joining PWP, she worked for The Metropolitan Water District of Southern California for 15 years, serving in various capacities including leading regional drought action planning efforts. Additionally, she has experience in managing innovative stormwater multi-use projects at the County of Los Angeles Department of Public Works. Ms. Takeguchi has a bachelor's degree from Tulane University and is a licensed engineer in the State of California.
Chisom Obegolu Assistant General Manager - Water <i>Glendale Water and Power</i> 613 E. Broadway, Glendale, CA 91206	Chisom Obegolu is the Chief Assistant General Manager of Water Services at Glendale Water and Power. He is responsible for managing the water operational and business functions, which includes system operations, planning and water resources management. He oversees Water Engineering, Water Operation, Water Distribution, and Water Quality. Among his primary duties is to implement the water strategic plan and initiatives.

818-550-4400 cobegolu@glendaleca.gov	
James Lee General Manager <i>Crescenta Valley Water District</i> 2700 Foothill Blvd., La Crescenta CA 91214 818.236.3925 jlee@cvwd.com	James Lee pursues creative ways to ensure safe and reliable water for California, including for Crescenta Valley Water District where he serves as General Manager. He is responsible for developing and implementing the District's short and long-term strategic plan goals that serve the community and region. Prior to joining the District, he served water and wastewater agencies through public finance on both the financial advisory and investment banking sides. He also served agencies with utility rate studies, budget modeling, and organizational development. He serves in leadership for the Public Water Agencies Group and the California Data Collaborative. He holds a Bachelor of Arts in Economics-Accounting from Claremont McKenna College and a Master of Public Policy from University of Southern California's Price School of Public Policy.
ROLE: CO-PROGRAM MANAGERS	
Michael Le Water Program Technician <i>Foothill Municipal Water District</i> 4536 Hampton Road La Cañada Flintridge, CA 91011 818.790.4036 mle@fmwd.com	Michael Le is the Water Program Technician at FMWD. Michael has more than 7 years of experience working in the public water sector. Michael graduated with a Bachelor's Degree in Accounting from Cal State Long Beach. In Michael's free time - he enjoys traveling, the great outdoors and motorsports.
Patrick Atwater Regulatory and Public Affairs Manager <i>Crescenta Valley Water District</i> 2700 Foothill Blvd., La Crescenta CA 91214 (818)248-3925 patwater@cvwd.com	Patrick Atwater has a decade and a half of experience managing data analytics projects in water resources, public finance, climate adaptation, and other civic challenges. He serves as the Regulatory and Public Affairs Manager for Crescenta Valley Water District, the hometown where he grew up. He is the author of the books A New California Dream, California Revolution, and The Big Drought. His data work has been featured in the Annals of Applied Statistics as well as numerous industry outlets including Harpers magazine and KNX news radio. He holds a Bachelor's Degree in Mathematics and Philosophy, Politics and Economics from Claremont Mckenna College and a Master's Degree focused on data science for cities from NYU.
ROLE: TECHNICAL LEADS	
Christopher Tull Chief Data Officer <i>California Data Collaborative</i>	Christopher Tull is a public technologist, nonprofit leader, and data scientist specializing in using data to improve operations, program effectiveness, and efficiency within water agencies. He worked in several roles over the years with the California Data Collaborative, most recently as Chief Data Officer where he leads the organization, and before that as lead data scientist where he designed and built data infrastructure to process, store, and analyze metered water use data from water utilities

23564 Calabasas Road Suite 201, Calabasas, CA 91302 Phone: (805) 330-1196 chris@thecadc.org	across California, including hourly AMI data. He has an M.S. in Urban Informatics from New York University and a B.S. in Computer Science and Mathematics from CSU Channel Islands.
Dr. Brianna R. Pagán Deputy Manager <i>NASA Goddard Earth Sciences Center Data and Information Services Center</i> Adjunct Professor <i>Loyola Marymount University</i> Phone: (805) 280-3778 briannapagan@gmail.com	Dr. Brianna Pagán has over 10 years experience working on local and international environmental issues. Her research and expertise is in remote sensing, eco-hydrology and climate, also receiving the prestigious American Geophysical Union Horton Hydrology Grant in 2018 for her doctoral research on estimating plant transpiration from satellites. Dr. Pagán is currently a Deputy Manager at NASA Goddard Earth Sciences Center Data and Information Services Center and Adjunct Professor at Loyola Marymount University's College of Science and Engineering. At NASA, she leads a team of 70+ software engineers and domain experts, orchestrating the transition to cloud-based infrastructure for distributing satellite and model data to the public. Previously as the Director of Remote Sensing at SpaceSense.ai, she led the research and development for new agri-tech products managing a team of geospatial scientists, machine learning experts and software developers. Dr. Pagán has also worked at the Flemish Institute for Technological Research as a hydroinformatics researcher and the Long Beach Water Department in California as a water conservation specialist. She continues to provide remote sensing consulting services to water agencies.

D. Proposal Description

Overview of the Problem

Climate change projections^{1 2} for California indicate increasingly variable weather swings in a state that already faces the highest precipitation variability in the nation³. This “climate whiplash” often leaves communities prone to flooding and poor water quality during wet years while struggling with water availability and groundwater overdraft during dry years. The ability to effectively manage and capture stormwater when it does arrive so that it can be stored and used when needed is therefore increasingly important for the entire state, with California’s August 2022 Water Supply Strategy calling for an additional 250,000 acre-feet of stormwater capture in cities and towns by 2030⁴. This need is

¹ <https://energyinnovation.org/2023/03/29/atmospheric-river/>

² Swain, D. L., Langenbrunner, B., Neelin, J. D., & Hall, A. (2018). Increasing precipitation volatility in twenty-first-century California. *Nature Climate Change*, 8(5), 427-433.

³ [https://cwc.ca.gov/-/media/CWC-](https://cwc.ca.gov/-/media/CWC-Website/Files/Documents/2019/08_August/Dettinger_CA_Precipitation.pdf)

[Website/Files/Documents/2019/08_August/Dettinger_CA_Precipitation.pdf](https://cwc.ca.gov/-/media/CWC-Website/Files/Documents/2019/08_August/Dettinger_CA_Precipitation.pdf)

⁴ <https://resources.ca.gov/-/media/CNRA-Website/Files/Initiatives/Water-Resilience/CA-Water-Supply-Strategy.pdf>

especially great in Southern California where the increased stress on imported water supplies from Northern California and the Colorado River have highlighted the need for local and regional solutions to increasing water supplies. In addition, municipal separate storm sewer permit (MS4) requirements come with high costs.

Despite the importance of implementing multi-benefit stormwater capture projects that contribute to aquifer recharge and support local supply production, water agencies may not realize the full potential of distributed stormwater projects throughout their service area. This is often due to a lack of understanding and visibility into the benefits and possible locations of projects and may lead water managers to focus their attention on a few large water supply projects instead of allocating resources towards a larger number of smaller distributed projects.

In order to increase awareness of and visibility into the many benefits of distributed, low impact development (LID) projects, this proposal outlines the implementation of the Data-Driven Resource Optimization and Planning System (*DROPS*), a low-cost planning tool, designed to efficiently site and estimate the benefits of distributed stormwater capture and filtration projects, including the implementation of green streets and California Friendly® vegetation. In addition to supporting the siting of projects, the tool will also estimate multiple benefits such as groundwater recharge for local supply, runoff reduction for flood control, and water saved in situations where the project is sited to replace irrigated (often non-functional) turfgrass. This innovative approach will enable cost-effective resource planning and support the potential development of stormwater projects in a way that can supplement or replace traditional, expensive feasibility studies.

Need in the Foothill Region

The Verdugo and Raymond groundwater basins provide water resources for Foothill Municipal Water District's member agencies, including Crescenta Valley Water District, along with Glendale Water and Power and Pasadena Water and Power. The Verdugo Basin has declined over the past decades since CVWD built sewer systems, lowering the water recharge from septic systems. In addition, the District has further developed and increased the amount of impervious surface. As a result, groundwater production today is approximately two thirds of its typical yield a decade ago.

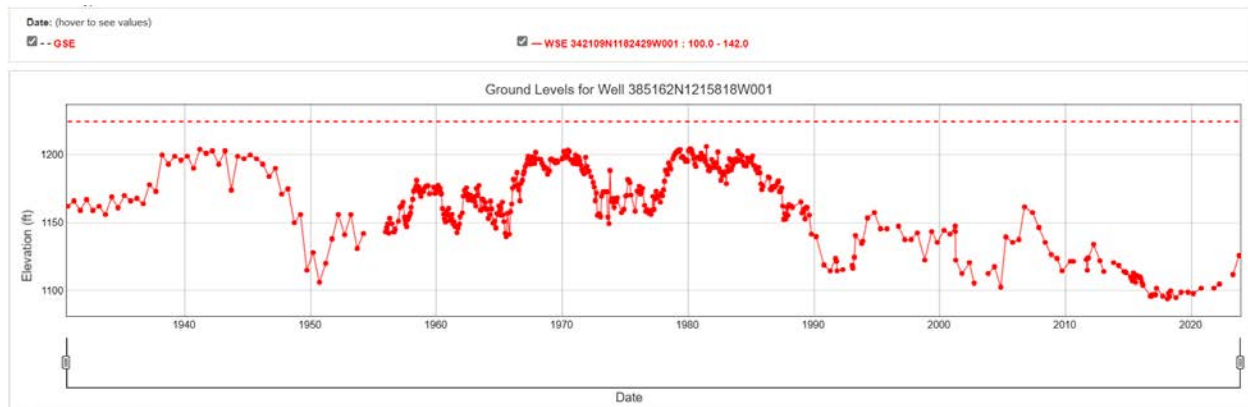


Figure 1. Historical groundwater elevations at a well in the Verdugo Basin from 1930 to present. Structural declines in water levels are visible in the late 1980s and again starting in 2014, with a slight rebound visible in October 2023 thanks to dramatic levels of precipitation that year. Source: https://cww.water.ca.gov/map/waterlevel_detailed?siteCode=342109N1182429W001

The *DROPS* pilot in the Verdugo and Raymond basins will test the hypothesis that an open, public facing data analytics tool can enable increased collaboration and coordination. This transparency is pivotal in building trust and fostering partnerships across different sectors, including government agencies, environmental groups, community organizations, and private entities. By providing access to a shared pool of data, *DROPS* enables these stakeholders to collectively analyze, understand, and respond to water management challenges with a unified approach. The tool's comprehensive data encompasses various aspects of water resources, climate patterns, and urban infrastructure, allowing for a holistic view of the water management landscape.

Overview of the Tool

The CaDC has had proven success developing and deploying software planning tools to support water management decisions, including software tools for evaluating the savings of turf replacement projects, targeting outreach for efficiency programs, and integrating sensor data for watershed management. Uniquely, the CaDC operates as a co-op run by and for the benefit of water managers, making it well-positioned to develop a regional planning tool that benefits many stakeholders.

This project proposes to develop a simple, user-friendly web-based planning tool to aid siting of distributed stormwater capture projects. The planning tool will calculate metrics to prioritize potential sites by compiling the necessary geospatial data at scale to more efficiently implement the Rational Method - a popular method for engineers to calculate peak runoff. Traditionally, engineers spend either a great deal of time compiling the necessary information to do these calculations or they rely on closed source software

(e.g. the HydroCalc Calculator⁵) that uses primarily static data inputs, neglecting the ever-increasing availability of high resolution and dynamic geospatial information.

There are many data sets that are either publicly available or that may be derived from public data which are relevant for siting LID projects and which can be incorporated into *DROPS*. The exact combination of datasets and how they will interact to aid project prioritization will be determined through early user interviews and feedback as part of our agile software development methodology (described in Section H). Datasets built into the tool may include:

- **Remote sensing:** classifications of aerial and satellite imagery to identify impervious areas, as well as irrigated turf that may be nonfunctional;
- **Slope angle:** topographic data provides context for calculating runoff and stormwater capture potential;
- **Historical Rainfall Depth:** precipitation data provides context for calculating runoff and stormwater capture potential;
- **Parcel land use:** shows whether the parcel is residential, a school, commercial, a publicly owned median etc. and provides context on stormwater capture potential;
- **Urban Planning and Zoning Records:** Municipal records of urban planning, construction, and zoning can provide historical and current data on the extent of impermeable surfaces, and identify commercial areas subject to nonfunctional turf bans;
- **Stormwater Infrastructure:** overlaying the location of current stormwater infrastructure can help prioritize projects in areas that may be underserved by drains, or which are well placed to divert, slow, or capture water before it enters the storm sewer system;
- **Neighborhood Income and Disadvantaged Communities (DAC):** siting projects in DACs can help both to alleviate potential inequalities in access to municipal services as well as allow projects to tap into sources of state and federal funding that might not otherwise be accessible; and
- **Other data sources:** such as groundwater and hydrologic models from agencies participating in the study will be included where possible to help quantify groundwater yield based on enhanced stormwater capture.

Alongside the siting of projects with a primary benefit of slowing, capturing, and treating stormwater, one unique value proposition of *DROPS* is the potential to align the creation of distributed LID projects with the removal of nonfunctional turf grass irrigated by potable water. Per AB1572, signed into law by Governor Newsom on October 13, 2023, the “use of potable water for the irrigation of nonfunctional turf located on commercial, industrial,

⁵ https://pw.lacounty.gov/wmd/dsp_LowImpactDevelopment.cfm

and institutional properties, other than a cemetery, and on properties of homeowners' associations, common interest developments, and community service organizations or similar entities is prohibited" The implementation deadlines for the law phase in as of January 2027 for state and local government properties, January 2028 for all other institutional properties and all commercial and industrial properties, January 2029 for HOAs, and January 2031 (or later, depending on availability of funding) for publicly owned properties in a DAC.

This multibenefit alignment means that *DROPS* can build upon prior work by both MWD and the CaDC. MWD recently developed a turf dashboard which was provided to member agencies to aid in the identification of nonfunctional turf. *DROPS* could build on the data underlying this dashboard to find intersections between nonfunctional areas that will need replacing and opportunities for LID projects. Furthermore, CaDC, with funding from an Innovative Conservation Program (ICP) grant, developed in 2018 a tool called Flip My Lawn which estimated the water savings, carbon sequestration, and biodiversity benefits of converting from turf grass to California Native landscaping. These same calculations could be built into *DROPS* to further quantify the co-benefits of replacing turf grass with landscaping that incorporates both native plants and LID design elements.

As part of the testing of the tool, these planning measurements will be validated with field surveys and visits to potential sites. The tool will be developed iteratively in coordination with water management professionals across the CaDC's membership to calibrate and provide quality assurance of the model outputs.

E. Criteria One – Reduces Barriers to Future Production

Many small agencies lack the awareness and capacity to plan for green infrastructure projects. *DROPS*'s data analytics and predictive modeling capabilities lower the cost to plan and thus develop distributed stormwater capture projects, helping to enable optimal management of the basin's resources, ensuring a steady and sustainable local water supply.

The *DROPS* tool significantly contributes to increasing future local supply potential in the Verdugo, Raymond and other groundwater basins. By supporting stormwater capture projects that increase groundwater recharge and raise water levels in the basin, *DROPS* facilitates greater reliance on local water supplies. Greater levels of recharge have the ability to increase the sustainable yield of groundwater basins.

This is crucial for regions like Southern California given aforementioned climate realities, and *DROPS* will support resource resiliency and planning for climate change-driven uncertainty in many ways. The ability to site projects where they could most effectively

slow and capture storm flows during intense precipitation events has the potential to reduce and prevent flooding, which is a major climate risk that is projected to increase as the planet warms. Furthermore, the ability to store greater volumes of water locally during wet years so that it may be withdrawn during dry years will increase resilience to sustained periods of drought and the ongoing aridification of the Colorado River Basin which are both projected to increase in severity due to climate change. The ability to increase local storage also aligns with MWD's 2020 IRP Needs Assessment which highlighted that "... storage capacity, put/take capabilities, and accessibility are critical considerations in maintaining reliability under the region's current and future conditions..."

DROPS aligns with existing and planned conservation investments to lower the demand on potable water supplies. By integrating data and insights from conservation efforts, *DROPS* optimizes water use and supports lowering water demand through CA friendly landscaping as part of multi-benefit green infrastructure projects that also capture stormwater. This alignment helps to turn the same thirsty landscapes that are often the target of turf removal projects into opportunities for increasing local supplies - a crucial step for sustainable water management.

A significant advantage of *DROPS* is its ability to lower the costs associated with feasibility studies for future water projects. By integrating relevant data, making it easily accessible, and then supporting comprehensive data analysis and predictive insights, *DROPS* reduces the 'soft costs' often associated with these studies. The open-source nature of the tool supports sharing water management insights and lessons learned, further reducing the financial burden on communities and organizations looking to develop new water supplies.

F. Criteria Two – Regional Benefit / Applicability

The foothill region includes a diverse array of communities. While the Verdugo and Raymond Basins serve as pilots for the implementation of *DROPS*, the tool's data sets and methodologies are scalable to neighboring communities and other parts of the Metropolitan Water District (MWD). For example, aerial imagery classifications, digital elevation data, parcel data, and demographic data, are available throughout MWD's service area. Others, such as stormwater infrastructure locations are available throughout Los Angeles County and may be available for other counties as well. This scalability is essential for increasing regional climate resiliency, allowing multiple areas to benefit from the insights and efficiencies provided by *DROPS*. As climate change continues to impact water resources, tools like *DROPS* become increasingly vital in ensuring sustainable water management across different regions.

This localized approach ensures that interventions like green streets and California Friendly® vegetation are optimally placed to maximize rainwater capture and minimize runoff, thereby addressing the region's distinct seasonal water challenges. Southern California's unique climatic and geographical characteristics make the region particularly suited for the proposed analytics tool. The area's Mediterranean climate, characterized by dry summers and wet winters, presents specific challenges in water management, especially in capturing and efficiently using rainfall. The tool's ability to analyze and interpret local weather patterns, topography, and urban infrastructure will enable the design of water management solutions that are specifically tailored to Southern California's environmental conditions.

Drought is a recurring concern in Southern California, making efficient water use and conservation strategies essential and increasingly important with climate change. The proposed tool, with its comprehensive data analysis capabilities, can play a pivotal role in drought mitigation. By prioritizing areas for stormwater capture and identifying opportunities for groundwater recharge, the tool helps in augmenting local water supplies. The use of California Friendly® vegetation, which is adapted to the region's dry conditions, further supports water conservation efforts. These strategies collectively enhance the region's resilience to drought, ensuring a more sustainable water future.

In addition to its environmental benefits, the proposed tool's focus on green streets and California Friendly® vegetation will significantly enhance the aesthetic and livability of Southern California's urban areas. Green spaces have been shown to improve air quality, reduce urban heat island effects, and provide recreational areas for communities. By strategically integrating these elements into urban planning, the tool helps create more livable, attractive, and sustainable urban environments. This not only improves the quality of life for residents but also boosts local economies.

Urban flooding and water pollution are significant challenges in Southern California's densely populated areas. The analytics tool's ability to identify critical areas for stormwater intervention plays a crucial role in mitigating these issues. By optimizing the location and design of green infrastructure, the tool helps in effectively managing stormwater runoff, reducing the risk of flooding. Additionally, these green infrastructures act as natural filters, improving the quality of water that eventually reaches rivers and oceans. This holistic approach to stormwater management underscores the tool's utility in safeguarding both public safety and environmental health in Southern California.

G. Criteria Three – Innovative Process, Approach, or Technology

Existing approaches to conducting an initial feasibility assessment of potential green infrastructure distributed stormwater capture projects are manually intensive and thus expensive. In addition, these existing approaches heavily rely on static and parameterized characteristics.

Current software planning tools used to assist siting and planning of LID projects include, but are not limited to:

- EPA's Storm Water Management Model (SWMM) is “a Windows-based desktop program. It is open-source public software and is free for use worldwide. It is used throughout the world for planning, analysis, and design related to stormwater runoff, combined and sanitary sewers, and other drainage systems” ⁶. SWMM allows for the simulation of complex storm drainage systems and can model the impact of LID solutions similar to the proposed *DROPS*. The primary drawback of SWMM is that it has a high learning curve and requires extensive initial setup and customization to be able to run simulations. In-depth modeling with SWMM may be appropriate after an initial site selection phase using *DROPS*, and feasibility of integration between *DROPS* and SWMM during a future development phase may be investigated as part of this project.
- Follow The Drop mobile app by 3RWater “helps property owners equitably gain access to green stormwater infrastructure (GSI) solutions to manage stormwater on their properties as well as supports municipalities with data collection and asset management” ⁷. Of the existing technologies, this product may be the closest to the proposed *DROPS* tool because it allows for data collection on current properties and for estimating the impact of different stormwater interventions. However, it differs from *DROPS* in several ways. First, it is a mobile application rather than a web-based application, and it is designed primarily with property owners in mind as the desired end users. Its role is less focused on large-scale evaluation and prioritization of sites, and more about inventorying a pre-selected site and estimating the benefits. Furthermore, it is a private, closed source solution.
- HydroHarvest is an open-source proof of concept tool to “calculate the volume of water that can be collected and stored from the runoff of a site in Los Angeles

⁶ <https://www.epa.gov/water-research/storm-water-management-model-swmm>

⁷ <https://www.3r-water.com/>

County”⁸. *DROPS* will build directly from this proof of concept to expand its usability and functionality.

The integration of open and public data into our proposed analytics tool represents a significant advancement in water management. Open data sources, such as geographic information system (GIS) data, satellite imagery, and environmental databases, are invaluable for understanding regional water patterns and infrastructure. By incorporating this publicly available data, the tool provides a comprehensive and multi-faceted view of the urban water landscape. This integration allows water managers to utilize a wealth of existing information, transforming it into actionable insights. The result is a more informed decision-making process, which can lead to more effective water management strategies, improved resource allocation, and enhanced ability to respond to changing environmental conditions.

The project team is also excited to explore deploying generative AI tools like Chat GPT to make the model outputs meaningful for water managers and enable interactive, chat-based exploration where feasible. This level of customization ensures that solutions are not only effective on a broad scale but also specifically tailored to local contexts, maximizing their impact and relevance.

H. Criteria Four – Work Plan / Schedule / Permitting

DROPS, as proposed, will be a data integration tool to lower the planning and coordination costs associated with siting low-impact development stormwater capture projects. To ensure that user needs remain central throughout project implementation, a human-centered approach and a Lean UX methodology will be employed to implement functionality in minimum viable increments while measuring results. In this way, hypotheses about how best to implement requirements can be quickly validated, and previously undiscovered needs can be brought to life sooner in the project lifecycle.

To enable comprehensive testing and validation, we will recruit a diverse pool of stakeholders representing a cross-section of user personas and archetypes of end users. These stakeholders will be deeply integrated into our design and development process to offer early validation of core features, contribute their subject matter expertise to test prototypes, and provide contextual feedback based on their needs and special circumstances.

⁸ <https://github.com/kcpgilbert/hydroharvest?tab=readme-ov-file>

Our process will be highly iterative and follow an agile “design-build-test” software development methodology. Milestones will be strategically planned to systematically lower the risk of ambiguity, remove obstacles, and increase the odds of *DROPS* succeeding upon public deployment. We believe that the unique combination of a human-centered approach, a lean UX methodology, and open-source development tools will enable *DROPS* to become an industry standard and viable tool for water managers.

Phase: Month:	J 24	A	S	O	N	D	J 25	F	M	A	M	J	J	A	S
Discovery & Technical Requirements															
Create Wireframes & Design Prototype															
Develop Pilot Planning Tool															
Write Final Report															

Project Phases & Segments: The project phases are described below, including the timeframe of the phase and the tasks that will be accomplished in each phase. The timeframes listed below assume a start date of July 1, 2024. Any delay in the start date of the project, for example, due to delayed availability of funds, will delay each phase by a corresponding amount of time.

Phase 1: Discovery & Technical Requirements (3 months: July – September 2024)

Phase 1 is focused on interviewing prospective users of the platform to understand their needs and workflows, along with documenting the technical requirements for integrating the various proposed data sources (parcel datasets, imagery, etc.)

Tasks:

- Individual and group interviews with relevant stakeholders such as water managers, stormwater managers, consultants, and engineers
- Document current workflows, processes, and factors that influence the siting of LID projects
- Define and validate common scenarios and use cases for *DROPS*
- Validate technical feasibility of integrating various relevant data sources

Deliverables:

- User research notes and preliminary product requirements

Phase 2: Create Wireframes and Design Prototype (3 months: October – December 2024)

Phase 2 will focus on using the learnings from phase 1 to develop a wireframe prototype of *DROPS* and then validate and iterate this design through user testing.

Tasks:

- Develop initial prototype
- Test prototype with desired end users
- Iterate on prototype based on user feedback

Deliverables:

- Testable product prototype

Phase 3: Develop Pilot Planning Tool (6 months: January – June 2025)

Phase 3 will involve the actual development of the pilot planning tool. User testing and agile iteration will continue throughout, with progressive increases in functionality developed over the course of the phase.

Tasks:

- Integrate target data sources
- Develop application backend and algorithms for locating and prioritizing LID projects
- Develop user interface
- User testing and refinement of iteratively developed planning tool

Deliverables:

- *DROPS* planning tool deployed publicly

Phase 4: Write Final Report (3 months: July – September 2025)

Phase 4 will be focused on writing up and documenting all research findings, including documentation of the tools functionality, primary use cases, as well as any remaining gaps and opportunities for future work.

Tasks:

- Document tool functionality
- Document learnings from interviews and user research
- Outline vision for future resource planning and opportunities to build on work

Deliverables:

- *DROPS* Final Report

It is possible that phases 1 and 4 could be broken out for individual funding if the desired deliverable were a research report documenting needs, opportunities, and feasibility for a stormwater planning tool. This would not accomplish the development of a pilot planning tool itself.

Potential Implementation Challenges and Solutions:

Implementing the *DROPS* tool presents several challenges and prerequisites that need to be carefully managed to ensure its success. A breakdown of these potential issues and strategies for addressing them is below.

1. Data Acquisition and Management:

- Challenge: The effectiveness of *DROPS* hinges on the quality and quantity of data it can access. Gathering comprehensive, accurate, and up-to-date data on groundwater levels, meteorological patterns, and urban infrastructure can be challenging.
- Solution: Establish partnerships with local government agencies, environmental organizations, and academic institutions to access relevant data. The CaDC has a demonstrated track record in building strong intersectoral data sharing partnerships.

2. Funding and Resource Allocation:

- Challenge: Securing adequate funding for the development, deployment, and maintenance of *DROPS* could be a significant hurdle.
- Solution: Explore a variety of funding sources (such a USBR Applied Sciences grant) to grow the tool after this initial pilot in the Verdugo and Raymond basins (FMWD / PWP / GWP service area).

3. User Acceptance and Training:

- Challenge: Resistance to change and a lack of familiarity with new technologies can hinder the adoption of *DROPS* by water managers and other stakeholders.
- Solution: Design *DROPS* with a user-friendly interface and provide comprehensive training and ongoing support to users. Engage with stakeholders early in the development process to incorporate their feedback and ensure the tool meets their needs.

4. Scalability and Flexibility:

- Challenge: The tool must be scalable to accommodate different sizes and types of water systems and flexible enough to be adapted to various geographic and climatic conditions.

- Solution: Develop *DROPS* with a modular design that allows for customization and scalability.
5. Long-term Sustainability and Support:
- Challenge: Ensuring the long-term viability and relevance of *DROPS*, including regular updates and technical support.
 - Solution: Work through the CaDC which has a proven track record of piloting, developing and scaling impactful open-source water data analytics.

By proactively addressing these challenges and prerequisites, the implementation of *DROPS* can be streamlined, ensuring it becomes a valuable tool in optimizing water resource management and planning.

Partner Roles and Expertise: The roles and expertise of each project partner are described below. Together, the proposal team brings strong experience in agile software development, advanced data analysis and integration, and infrastructure project planning.

FMWD, GWP, and PWP will serve as the lead member agencies for the project. FMWD, PWP, and GWP's role will include sponsoring the project with \$10,000 in matching funds, helping to provide overall vision for the water supply outcomes from *DROPS* usages, and supporting outreach to regional stakeholders to solicit feedback, user training, and other involvement.

Crescenta Valley Water District will serve as co-program manager. Their role will include the contribution of \$24,900 in matching funds and will include project management assistance such as contributions to defining specific water supply outcomes. CVWD will also serve as a prototypical end user of *DROPS*, providing timely feedback and testing as development proceeds through tight integration with the development team.

California Data Collaborative will serve as the primary technical implementer of the project by conducting user research with target end users to define program features, leading design of the software, and overseeing software development, hosting, and distribution. For eight years, the CaDC has brought together tech-forward water utilities to invest in the design and development of open-source data analysis software tools that inform its member agencies' operational decisions. The CaDC's commitment to open-source software design and development results in scalable and cost-effective data tools that allow member agencies to quantify the value of their water resiliency investments and develop targeted interventions to support water reliability. Powered by industry professionals and expert technologists, the CaDC sees data and technology as a tool to realize a more reliable, resilient, and sustainable future.

Permits

While there will be permits associated with building actual stormwater projects, this proposal is for research and the development of a pilot planning tool and there are no permits required for the proposal.

I. Criteria Five - Costs

Project matching funds will be provided by FMWD (\$10,000), PWP (\$10,000), GWP (\$10,000), and CVWD (\$24,900). All project tasks will be funded 50% by matching funds and 50% by MWD funds, and all project funds will go towards the CaDC who will develop the *DROPS* tool. In-kind support will be provided by CVWD and FMWD to contribute to software design, user testing, and validation.

Study Total Costs					
Cost Category	Non-Metropolitan Share (Funding Match)			Requested MWD Funding	Total
	Source	Funding Status	Amount		
Phase 1: Discovery & Technical Requirements	FMWD / PWP / GWP / CVWD	Committed	\$8,235	\$8,235	\$16,470
Phase 2: Create Wireframes and Design Prototype	FMWD / PWP / GWP / CVWD	Committed	\$10,980	\$10,980	\$21,960
Phase 3: Develop Pilot Planning Tool	FMWD / PWP / GWP / CVWD	Committed	\$30,195	\$30,195	\$60,390
Phase 4: Write Final Report	FMWD / PWP / GWP / CVWD	Committed	\$5,490	\$5,490	\$10,980
Grand Total			\$54,900	\$54,900	\$109,800

Development of *DROPS* will be guided by the principles of agile software development and project management to ensure a cost-effective effective use of resources. By adopting an iterative development process, the project ensures that each stage contributes meaningful value, allowing for a prudent allocation of budget and resources. FMWD, GWP, PWP and CVWD are all ready to proceed with matching funds. Funding amounts are within signing authorities and will be sent to the FMWD as the lead agency prior to signing the FSA Funding Program agreement.

J. Appendix A: Support Letters



**RAYMOND BASIN
MANAGEMENT
BOARD**

February 1, 2024

City of Alhambra

City of Arcadia

California-American Water Company

H.E. Huntington Library and
Art Gallery

Kinneloa Irrigation District

La Canada Irrigation District

Las Flores Water Company

Lincoln Avenue Water Company

Pasadena Cemetery Association

City of Pasadena

Rubio Canon Land and Water
Association

San Gabriel County Water District

City of Sierra Madre

Sunny Slope Water District

Valley Water Company

Mr. Jonathan Jordan
Metropolitan Water District of Southern California
700 N. Alameda Street
Los Angeles, CA 90012

**RE: Letter of Support for the Foothill Municipal Water District,
Crescenta Valley Water District and California Data
Collaborative's Project Application**

Dear Mr. Jordan:

On March 26, 1984, the Court appointed the Raymond Basin Management Board as Watermaster to administer and enforce the Raymond Basin Judgment that had established water rights and the responsibility to effectively manage the quantity and quality of water in the Raymond groundwater basin (Raymond Basin).

Foothill Municipal Water District, (FMWD), Crescenta Valley Water District (CVWD) and California Data Collaborative's (CaDC) have prepared a proposal to the Metropolitan Water District for a grant to fund the development of the Open Stormwater Project in California to assist local water suppliers with integrating, visualizing, and developing first pass planning tools to prioritize low impact development stormwater capture and California friendly landscaping projects. We support this grant application and focus on improving the quality, availability, and usability of data to enhance water supply reliability over the long run, including water efficiency and drought management.

As the Watermaster, responsible for managing groundwater supplies in the Raymond Basin, we have a significant interest in supporting open planning tools that have the potential to assist in the overall management, preservation, and enhancement of groundwater supplies. Should this project be funded, we would welcome the opportunity to participate in any aspect relating to groundwater quality and supplies.

Mr. Jonathan Jordan
February 1, 2024
Page 2

In consideration of the foregoing, we would like to express our support for the FMWD, CVWD and CaDC project grant application.

If you have any questions, please contact me at (626) 815-1300, or by email at kelly@watermaster.org.

Sincerely,

A handwritten signature in blue ink, appearing to read "K. Gardner", with a stylized flourish at the end.

Kelly L. Gardner
Executive Officer
Raymond Basin Management Board



P.O. BOX 1
PASADENA, CALIFORNIA 91102
WWW.ARROYOSFOOTHILLS.ORG
626.796.0782

BOARD OF DIRECTORS

Janice DaVolio, *Board Chair*
Cal Hollis, *Vice Chair*
Katie Poole, *Treasurer*
Phil Swan, *Secretary*
Marcella Ayala
Matthew DeVoll
James Johnson
Smrithi Krishnan
Ethan Lipsig
Dianne Philibosian
Pam Privett
Laura Solomon
Rich Toyon
Mitchell Tsai
Tim Wendler

ADVISORS

George Abdo
Fundraising

Denis Callet
*Wildlife Tracking &
Photography*

Mark Duttweiler
GIS Analysis

Thomas Juhasz
Endangered Species Biology

Roger Klemm
Restoration

Mike Lawler
Local History

Mickey Long
Field Biology

Barbara Nielsen
Girl Scouts

Jim Osterling
Land Acquisition

E.J. Remson
Land Acquisition

Nancy Steele
Conservation Biology

Laura Stotler
Urban Planning

Johanna Turner
*Wildlife Tracking &
Photography*

Amanda Zellmer
Biology-Modeling

STAFF
John Howell
CEO, General Counsel

Barbara Goto
Director of Operations

Tim Martinez
*Land & Program
Administrator*

Auxenia Grace Privett-

Jonathan Jordan

Metropolitan Water District of Southern California

FSAfundingprogram@mwdh2o.com

February 5, 2024

I write on behalf of Arroyos Foothills Conservancy and the Friends of the Rosemont Preserve in support of the Foothill Municipal Water District (FWMD), Crescenta Valley Water District (CVWD) and California Data Collaborative's (CaDC) proposal to the Metropolitan Water District for a grant to fund the development of the Data-Driven Resource Optimization and Planning System (DROPS) project in California to assist local water suppliers with integrating, visualizing and developing a regional planning tool to prioritize low impact development, stormwater capture and California native landscaping projects.

We strongly support this grant application and the focus on improving the quality, availability, and usability of data to enhance water supply reliability, water efficiency, and ground water recharge.

As a local environmental organization, we have a strong interest in supporting stormwater capture projects that function to replenish groundwater depleted by development. Integrating existing remote sensing, administrative and other public data to help agencies prioritize potential areas for habitat restoration and distributed stormwater capture projects provides a valuable service to the water community. We understand this fund could make funds available for a planned project we have at our Rosemont Preserve property which would help CVWD quantify water sequestration benefits.

In the event that this project is funded, we would expect our role in the DROPS project to include:

- Providing input to inform the design and functionality of the software platform as it relates to potential ecological benefits.
- Testing the analytics tool and providing feedback to ensure it works in the Rosemont Preserve.
- Collaboratively engaging on implementing solutions to capture stormwater to facilitate percolation into the soil and promote groundwater recharge at the Rosemont Preserve.

We are encouraged by the idea of local water districts having the capacity to pursue and evaluate opportunities elsewhere with the help of this evaluation tool.

Sincerely,

John Howell

Chief Executive Officer

(626) 796-0782



**WATER AND
POWER**

February 2, 2024

Mr. Jonathan Jordan
Metropolitan Water District of Southern California
700 North Alameda Street
Los Angeles, CA 90012-2944

I write on behalf of Burbank Water and Power in support of the Foothill Municipal Water District (FWMD), Crescenta Valley Water District (CVWD) and California Data Collaborative's (CaDC) proposal to the Metropolitan Water District for a grant to fund the development of the Open Stormwater project in California to assist local water suppliers with integrating, visualizing and developing first pass planning tool to prioritize low impact development stormwater capture and California friendly landscaping projects. We strongly support this grant application and the focus on improving the quality, availability, and usability of data to enhance water supply reliability, water efficiency, and drought management activities.

As a municipal agency, we have a strong interest in supporting open planning tools to support green infrastructure for stormwater capture and water quality improvements. Integrating existing remote sensing, administrative and other public data to help agencies prioritize potential green streets distributed stormwater capture projects provides an invaluable service to the water community.

We look forward to working with you to enhance water supply reliability, water efficiency, water equity and drought management activities by improving the quality, availability, and usability of data that are critical for effective water management.

Sincerely,

Richard Wilson, P.E.

A handwritten signature in black ink, appearing to read "Richard Wilson".

Assistant General Manager - Water
Burbank Water and Power
164 West Magnolia Blvd.
Burbank, CA 91502



Western Municipal Water District
14205 Meridian Parkway,
Riverside, CA 92518
District Business | 951.571.7100
Customer Service | 951.571.7104

Craig D. Miller
General Manager

Mike Gardner
Division 1

Gracie Torres
Division 2

Brenda Dennstedt
Division 3

Laura Roughton
Division 4

Fauzia Rizvi
Division 5

January 29, 2024

Mr. Jonathan Jordan
Metropolitan Water District of Southern California
700 North Alameda Street
Los Angeles, CA 90012-2944

FUTURE SUPPLY ACTIONS FUNDING PROGRAM – LETTER OF SUPPORT

Dear Mr. Jordan:

I write on behalf of Western Municipal Water District in support of the Foothill Municipal Water District (FWMD), Crescenta Valley Water District (CVWD) and California Data Collaborative's (CaDC) proposal to the Metropolitan Water District for a grant to fund the development of the Data-Driven Resource Optimization and Planning System (DROPS) project in California to assist local water suppliers with integrating, visualizing and developing a regional planning tool to prioritize low impact development, stormwater capture and California friendly landscaping projects. We strongly support this grant application and the focus on improving the quality, availability, and usability of data to enhance water supply reliability, water efficiency, and drought management activities.

As a Southern California water supplier, my agency has a strong interest in supporting open planning tools to support stormwater capture. Integrating existing remote sensing, administrative and other public data to help agencies prioritize potential green streets and distributed stormwater capture projects provides a valuable service to the water community. In the event that this project is funded, we would expect our role in the DROPS project to include:

- Providing input to inform the design and functionality of the software platform.
- Allowing the data that we already share with the CaDC to be used to inform the software architecture, and possibly sharing additional data on a case-by-case basis.
- Testing the analytics tool and providing feedback to ensure that it meets our needs.

We look forward to working with you to enhance water supply reliability, water efficiency, water equity and drought management activities by improving the quality, availability, and usability of data that are critical for effective water management.

Sincerely,



Craig D. Miller
General Manager



Powered by water. Driven by service.

January 30, 2024

Mr. Jonathan Jordan
Metropolitan Water District of Southern California
FSAfundingprogram@mw dh2o.com

I write on behalf of Moulton Niguel Water District in support of the Foothill Municipal Water District (FWMD), Crescenta Valley Water District (CVWD) and California Data Collaborative's (CaDC) proposal to the Metropolitan Water District for a grant to fund the development of the Data-Driven Resource Optimization and Planning System (DROPS) project in California to assist local water suppliers with integrating, visualizing and developing a regional planning tool to prioritize low impact development, stormwater capture and California friendly landscaping projects. We strongly support this grant application and the focus on improving the quality, availability, and usability of data to enhance water supply reliability, water efficiency, and drought management activities.

As a Southern California water supplier, my agency has a strong interest in supporting open planning tools to support stormwater capture. Integrating existing remote sensing, administrative and other public data to help agencies prioritize potential green streets and distributed stormwater capture projects provides a valuable service to the water community. In the event that this project is funded, we would expect our role in the DROPS project to include:

- Providing input to inform the design and functionality of the software platform.
- Allowing the data that we already share with the CaDC to be used to inform the software architecture, and possibly sharing additional data on a case-by-case basis.
- Testing the analytics tool and providing feedback to ensure that it meets our needs.

We look forward to working with you to enhance water supply reliability, water efficiency, water equity and drought management activities by improving the quality, availability, and usability of data that are critical for effective water management.

Sincerely,



Johnathan Cruz
Director of Financial Planning & Innovation
Moulton Niguel Water District
26161 Gordon Road, Laguna Hills, CA

Appendix 1 -- Illustrative alpha prototype

Below is a preliminary research project that provides some of the functionality envisioned in DROPs. This example examines the stormwater capture potential at CVWD's Eagle Canyon reservoir by the Rosemont Preserve. The code for this [pre-alpha tool](#) can be accessed at this [link](#). The tool ingests high resolution satellite imagery (60cm) to determine impervious areas, OpenStreetMaps building footprints, rainfall depth provided by the city of LA and climate projection information in order to provide an automated approach to estimate runoff potential both under present and future climate conditions.

Entire site

Select the slope of your site:

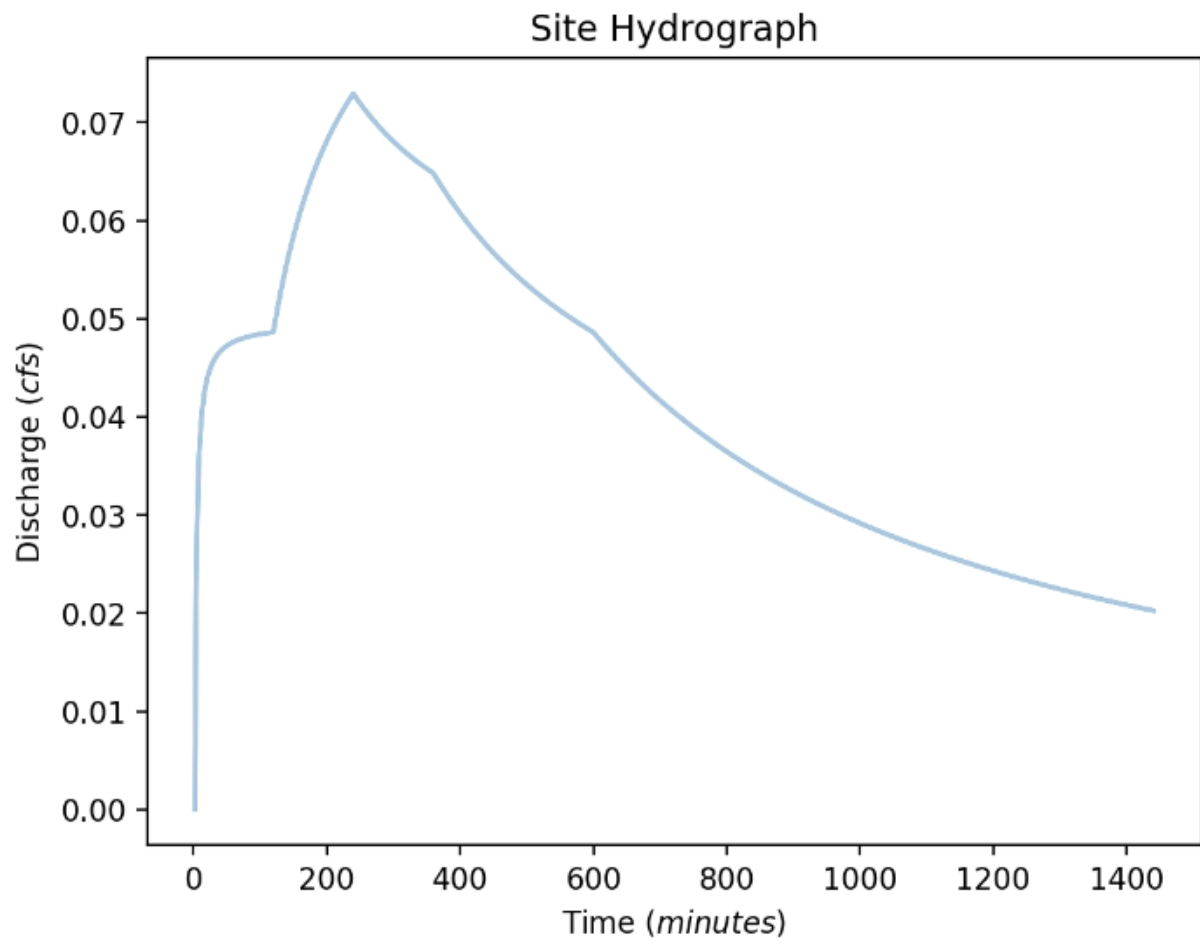
Gently Sloping

Draw your polygon on the map below:

+

-

Search...





“Values Refresh” as of January 2024

Stay committed to a team effort. Be objective – CVWD or me? Own your actions and take pride in your work! Define each day with positive action and have the **GRIT** to overcome obstacles to continuously develop your skills. Realize you are one part of the team, and each department makes the **WHOLE** District. Be proud of your contribution, finished work and the service we offer to the community. Water is essential to life, and everything we do is built upon deep trust with the people we **SERVE**. Our level of stewardship is delivered from our daily care and effort.

Everything you do has your name on it, including your interactions with the team and the community. Have humility and pride and carry yourself with professionalism. Strive for camaraderie with your teammates. Be enthusiastic, celebrating their successes and genuinely supporting them through their mistakes. Expect learning lessons and recognize and build on them. Lead with extending benefit of the doubt and be the one to reach out with patience and understanding. Constructive criticism is more easily welcomed when you approach with respect. It is received with an open mind and impactful when it focuses on a solution. We cannot improve as a team if we are not **BRAVE** enough to master this!

RESOLUTION is the key to success. Don’t talk about an issue without offering a solution motivating others to an end goal. Support your teammates by being direct, respectful and focused on solving the problem. Respect and attitude (approach) are the beginning of collaboration, and they promote innovation and set the team up for success and productivity.

VALUES QUADRANT – use it. Take your own inventory and focus on your development. Value input and diverse perspectives (gumbo!). Remain in a learning stance. Let go of ego and bias and be prepared to pivot and change. Be vulnerable enough to trust the team to drive your innovation through healthy debate. Conflict is part of problem solving and can be healthy when handled with respect and graciousness.

Each of us is **RESPONSIBLE** for ourselves, each other, and the community. Providing water is a public service! We are servants to our customers and each other! Be present, observant, alert, vigilant and aware. Set the tone for safety and fiscal responsibility in everything we do. Stay invested in your teammates and their well-being; we are each other’s keepers!

CRESCENTA VALLEY WATER DISTRICT

General Manager Report

GM Report

February 13, 2024

To: Honorable President and Members of the Board of Directors
From: James Lee, General Manager
Subject: General Manager Report

General Manager's Report Topics:

- MWD Upper Feeder shutdown
- Carl Moyers Grant – won and approved
- Future Supply Actions grant (MWD) – submitted
- Updated District 'Values Statement'
- Leadership Circle – 1st meeting
- April Spring Fling – Friday, April 12th

STAFFING

As of February 10th, the District has gone 54 days without a lost time accident.

GENERAL MANAGER ACTIVITIES

Meetings:

Managers Meeting(s)	- January 18 th , February 5 th
Meeting with Foothill MWD	- January 22 nd
ULARA Watermaster Meeting	- January 24 th
CA Data Collaborative Steering Committee	- January 25 th
Director Valdez Site Visit	- January 29 th
CA Society of Municipal Fin. Officers (<i>panelist</i>)	- January 31 st
Public Water Agencies Group Meeting	- January 31 st
Finance Committee Meeting	- February 6 th
Leadership Circle Meeting	- February 8 th
Community Relations Committee Meeting	- February 8 th
Meeting with Mesa Water District	- February 9 th
Ad Hoc Committee Meeting	- February 9 th
Meeting with El Toro Water District	- February 9 th

Submitted by:



James Lee
General Manager

CRESCENTA VALLEY WATER DISTRICT

**2700 FOOTHILL BOULEVARD
LA CRESCENTA, CALIFORNIA**

**To be held on
February 6, 2024 at 4:30 PM**

**Agenda for the Meeting of the Finance Committee
of the Crescenta Valley Water District**

Posted February 5, 2024 at 4:30 PM

TELECONFERENCING NOTICE

This meeting will be conducted in person at the address listed above. Members of the public may also participate virtually by using a touchtone phone. You may select any of the following phone numbers (there are more than one for increased reliability during this time of increase phone traffic).

(669) 900-6833

(346) 248-7799

(929) 205-6099

(253) 215-8782

(301) 715-8592

(312) 626-6799

Then, enter Access Code: 871 7160 2844

[Pursuant to the above Executive Order, the public may not attend the meeting in person]

Those members of the public who are able to and would like to additionally participate with a computer through videoconference may access the Zoom videoconferencing tool available at the following link:

<https://us02web.zoom.us/j/87171602844>

If there is a disruption of service, this meeting will continue without remote participation. The remote participation option is provided a convenience to the public and is not required.

Any person may make a request for a disability-related modification or accommodation needed for that person to be able to participate in the public meeting by contacting the District by phone or in writing at customerservice@cvwd.com. Requests must specify the nature of the disability and the type of accommodation requested. A telephone number or other contact information should be included so that District staff may discuss appropriate arrangements. Persons requesting a disability-related accommodation should make the request with adequate time before the meeting for the District to provide the requested accommodation.

Call to Order

Adoption of Agenda

Public Comment:

At this time, members of the public shall have an opportunity to address the Committee on items of interest that are within the subject matter jurisdiction of this Committee. This opportunity is non-transferable, and speakers are limited to three (3) minutes each. Under the provisions of the Brown Act, the Board is prohibited from taking action on items not listed on the agenda, except under certain circumstances.

Action Item(s)

The public shall have an opportunity to comment on any action item as each item is considered by the Committee. This opportunity is non-transferrable and speakers are limited to one two-minute (2) comment each.

1. Discussion on Planning for Future Rate Increases and Rate Structures
2. D-Job Cost Recovery

Committee Members' Request for Future Agenda Items

Adjournment

CRESCENTA VALLEY WATER DISTRICT

2700 FOOTHILL BOULEVARD
LA CRESCENTA, CALIFORNIA

To be held on
February 8, 2024 at 4:00 PM

Agenda for the Meeting of the Community Relations and Water
Conservation Committee
of the Crescenta Valley Water District

Posted February 7, 2024 at 4:00 PM

TELECONFERENCING NOTICE

This meeting will be conducted in person at the address listed above. Members of the public may also participate virtually by using a touchtone phone. You may select any of the following phone numbers (there are more than one for increased reliability during this time of increase phone traffic).

(669) 900-6833

(346) 248-7799

(929) 205-6099

(253) 215-8782

(301) 715-8592

(312) 626-6799

Then, enter Access Code: 818 4424 8383

[Pursuant to the above Executive Order, the public may not attend the meeting in person]

Those members of the public who are able to and would like to additionally participate with a computer through videoconference may access the Zoom videoconferencing tool available at the following link:

<https://us02web.zoom.us/j/81844248383>

If there is a disruption of service, this meeting will continue without remote participation. The remote participation option is provided a convenience to the public and is not required.

Any person may make a request for a disability-related modification or accommodation needed for that person to be able to participate in the public meeting by contacting the District by phone or in writing at customerservice@cvwd.com. Requests must specify the nature of the disability and the type of accommodation requested. A telephone number or other contact information should be included so that District staff may discuss appropriate arrangements. Persons requesting a disability-related accommodation should make the request with adequate time before the meeting for the District to provide the requested accommodation.

Call to Order

Adoption of Agenda

Public Comment:

At this time, members of the public shall have an opportunity to address the Committee on items of interest that are within the subject matter jurisdiction of this Committee. This opportunity is non-

transferable, and speakers are limited to three (3) minutes each. Under the provisions of the Brown Act, the Board is prohibited from taking action on items not listed on the agenda, except under certain circumstances.

Action Item(s)

The public shall have an opportunity to comment on any action item as each item is considered by the Committee. This opportunity is non-transferrable and speakers are limited to one two-minute (2) comment each.

1. Making Conservation a California Way of Life Update
2. Public Engagement Master Plan Update
3. Rosemont Preserve Community Event Update
4. Discussion on perpetual plaque

Committee Members' Request for Future Agenda Items

Adjournment